# ALLEGION

VON DUPRIN®

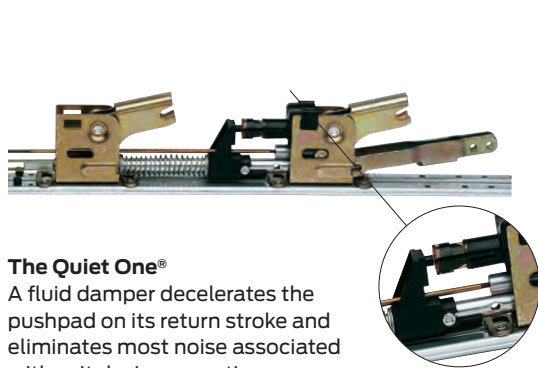## 98/99™ Series

Exit devices

Introduction

Exit devices are a critical part of the fire and life safety egress system and will provide safe and reliable service when properly applied and maintained. Von Duprin designs and manufactures exit devices in accordance to ISO 9001 Quality Management System and meets or exceeds accepted U.S. domestic and International standards. All 98 and 99 Series exit devices are UL listed for panic hardware or fire hardware, and are certified to ANSI A156.3, 2008, Grade 1. Many models are also certified for Hurricane Resistant Applications. Consult your local Security & Safety consultant (SSC) or the Von Duprin factory for current listings.

It is intended that the information included in this publication, when properly used, will provide clear and reliable guidelines to the proper general selection and application. However, the scope of the information is necessarily limited.

98 Series features smooth mechanism case.

99 Series features grooved mechanism case.
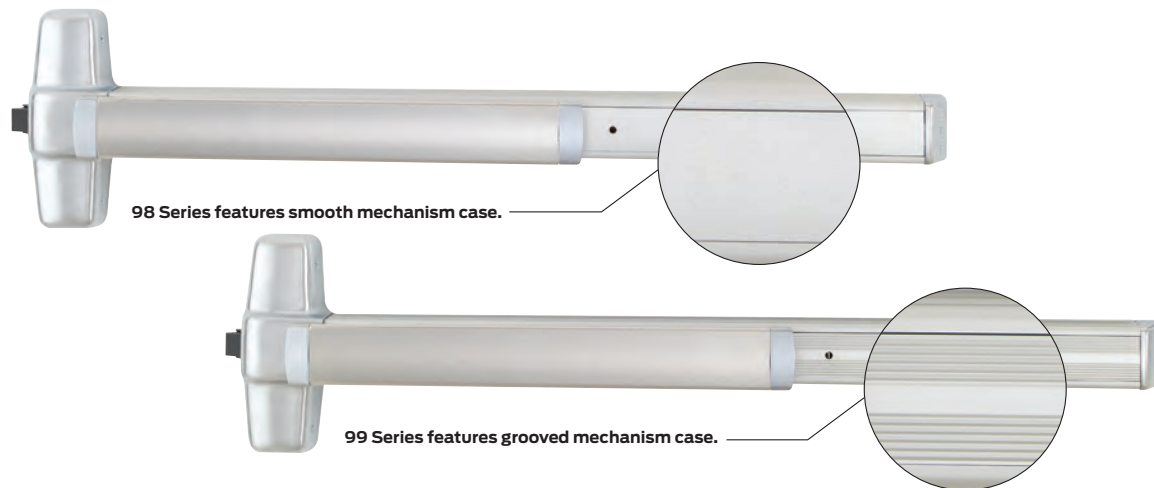
Von Duprin exit devices are available in two external surface styles, designated 98 and 99 Series.

The Quiet One®
A fluid damper decelerates the pushpad on its return stroke and eliminates most noise associated with exit device operations. Furnished on all 98/99™ Series exit devices.
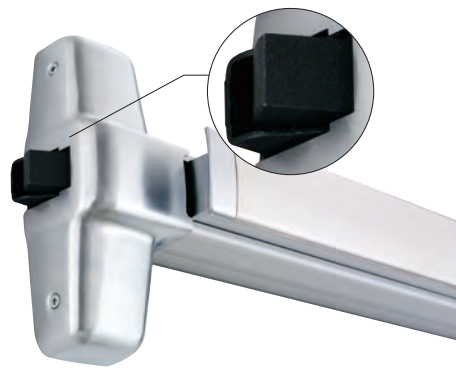
Latch bolt
Deadlocking latchbolt provides security and improved performance at standard device cost.

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Table of contents

🔥 **Fire exit hardware**

THIS PRODUCT IS OBSOLETE it is replaced by the 98/9950 WDC.
See pages 48-51 for more information.

Options and accessories

Applications & trim operation	Single & double door applications Door handing Outside trim operation Lever styles

Trim options	Knob Thumbpiece Lever Electrified outside lever trim (E996L) Breakaway lever Thumbturn control Hospital pull Offset pull Vandal resistant pull AD-Series adaptable electronic trim

Strike options	Strike/Stile information Strikes
Dogging options	Cylinder dogging Hex key dogging Less dogging Dogging keys Special center case dogging Double cylinder

Symbols

🔥 Indicates fire rated application   ♿ Indicates ADA products

Electrical options	**RX** Request to exit **LX** Latchbolt monitoring **SS** Signal switch **CX** Chexit® **ALK** Alarm kit **E** Electric mortise lock device **EL** Electric latch retraction **QEL** Quiet electric latch retraction **CON** Allegion Connect
Electrical accessories	Power supplies Electric power transfer

Mechanical options	XP98/99 rim exit device WS Surface vertical rod exit device Less bottom rod AX Accessible device Pullman latch Dummy push pad Braille, embossed, knurled and safety glow (Luminescent) touchpads
Pneumatic options	Pneumatic controlled exit devices Pneumatic power transfer

Device accessories	Glass bead kit Vertical rod and latch guard Cover plate kits Cylinders Mullions Sex bolts

Additional information	ANSI Function, grade & type Ul fire labeling and opening size

Finishes	Standard & special finishes

Nomenclature – how to order

EL 99 27 -L -16 -F LBR 3' US3 RHR

Code	Description
None	Standard
SD	Special dogging R/VR - panic only
CD	Cylinder dogging - panic only
CX	Chexit
E	Electric locking mortise/lever
QEL	Quiet electric latch retraction
EL	Electric latch retraction
LX	Latch bolt monitoring
RX	Request to exit
RX2	Double request to exit
SS	Signal switch
AX	Accessible device
PL	Pullman latch
PN	Pneumatic latch retraction
WS	Surface vertical rod exit device
XP	Heavy protection - rim
WS	Tornado & hurricane tested

Code	Description
98	Series 98-smooth
99	Series 99-grooved

Code	Description
None	Rim device
27	Surface mounted vertical rod device
47	Concealed vertical rod device
47WDC	Concealed vertical rod wood door device
48	Concealed vertical rod device
49	Concealed vertical cable device
49WDC	Concealed vertical cable wood door device
57	Three-point latch device
75	Mortise lock device

Code	Description
AD	AD Trim (to come from client)
DT	Dummy trim
EO	Exit only
HL	Hospital pull trim
K	Knob
K-BE	Knob - blank escutcheon
K-DT	Knob, rigid - dummy trim
K-NL	Knob, rigid - night latch
L	Lever (classroom)
L-BE	Lever - blank escutcheon
L-DT	Lever, rigid - dummy trim
L-NL	Lever, rigid - night latch
NL	Night latch
NL-OP	Night latch cylinder assembly, optional pull
TL	Turn lever
TL-BE	Turn lever - blank escutcheon
TP	Thumbpiece
TP-BE	Thumbpiece - blank escutcheon

Code	Description
XX	Lever style 06 standard Optional 01, 02, 03, 05, 07, 12 (Handed), 16 (Omega), 17, 18, Accent, Asti, Merano, St. Annes

Code	Description
F	Fire exit device

Code	Description
-2	Double cylinder (rim & mortise only)
LBR	Less bottom rod
LBL	Less bottom latch
SG	Safety glow (luminescent) touchpad
ALK	Alarm kit
ALK-AR1	Auto-reset $1\frac{1}{2}$ minute alarm kit
ALK-AR3	Auto-reset 3 minute alarm kit
ALK-AR6	Auto-reset $4\frac{1}{2}$ minute alarm kit
CON	Allegion Connect

Code	Description
2'	2' Device (2' door size) 27, 47 or 49 only
3'	3' Device (2' 4"– 3' door size)
4'	4' Device (2' 10"– 4' door size)

Finishes	Description
Finishes	US3, US4, US10, US26, US26D, US28, 313, 315 US32D – 98 ONLY -AM Antimicrobial (available US26D and US32D)

Code	Description
-LHR	Left hand reverse
-RHR	Right hand reverse

Popular double door applications

Single door applications
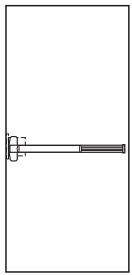
Single mortise lock device

Single rim device

Door handing

Left hand-reverse orientation

Right hand-reverse orientation

LHR
(Left hand-reverse)

RHR
(Right hand-reverse)
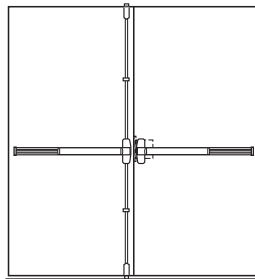
Outside
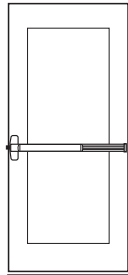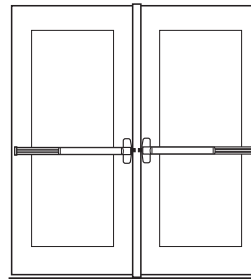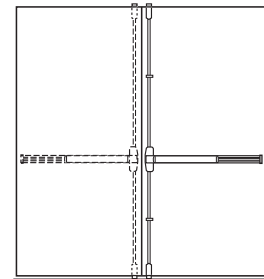
Double door applications

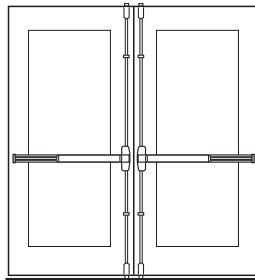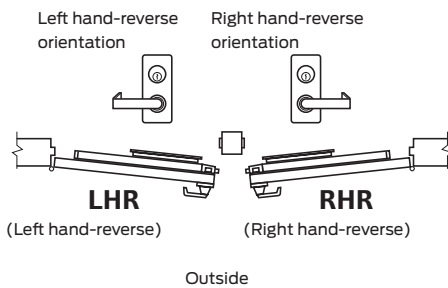Mortise lock and surface mounted or concealed vertical cable/rod device combination—same direction

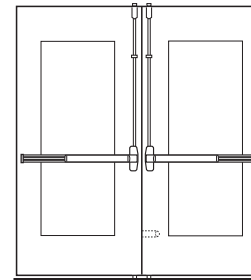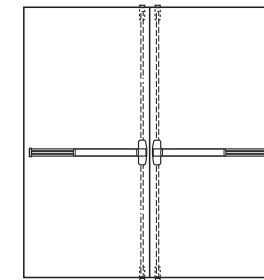Two rim devices with mullion—same direction

Two vertical rods—double egress

Two surface mounted vertical rod devices—same direction (do not use with overlapping astragal)

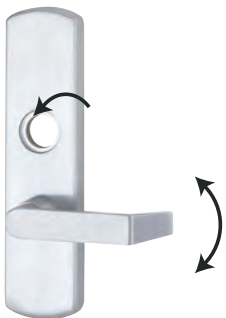Two fire exit hardware vertical cables/rods with auxilary fire latch-LBR option

Two concealed vertical cables/rods

Outside trim operation

Trim operation lever or knob

Standard

Key locks and unlocks lever or knob. e.g., 996L (Classroom)

Night latch

Key retracts latch bolt. Lever or knob is rigid. Use NL suffix, e.g. 996LNL. (Storeroom)

Blank escutcheon

Lever or knob always active. Use BE suffix, e.g., 996L-BE. (Passage)

Dummy

Lever or knob rigid for pull operation. Use DT suffix, e.g., 996L-DT.

996L Breakaway™ lever

The 996L Breakaway trim has become the standard lever trim offering on the 98L/99L Series devices. The Breakaway design is especially effective in areas where vandalism to door hardware is a problem. The design intent is to discourage costly repairs from becoming necessary. The Breakaway feature is not available on the NL (night-latch) or DT (dummy trim) versions.

374T/376T Series thumbturn control

Standard operation, key locks and unlocks thumbturn. Optional operation, key unlocks thumbturn, re-locks when key is removed. This operation is created by changing the cylinder plate included with control. Use $1\frac{1}{4}$" mortise cylinder with a straight cam. Schlage cam reference L583-475. Use with a pull trim (990DT pictured).

Lever styles

Decorative levers

M51
Knurling available

M52
Knurling available

M53

M54

M55

M56

M57··

M61
(Handed)

M62··
(Handed)

M63
(Handed)

M81
Knurling available

M82

M83

M84

M85
(Handed)

·· Available in Stainless Steel substrate ONLY.

Standard Levers

01

02
Knurling available

03*
Knurling available

05

06*
Default lever
Knurling available

07

12
(Handed)

16
(Omega)

17*
Knurling available

18

ACC
(Accent)
(Handed)

AST
(Asti)
(Handed)

MER
(Merano)
(Handed)

LAT*
Latitude

LON*
Longitude

*Available in Stainless Steel - specify SS when ordering

9847/9947 Concealed vertical rod device

9847/9947 Concealed vertical rod device for use on single or double metal doors, UL listed for panic exit hardware. Devices are ANSI A156.3 – 2008 Grade 1. The 9847 device has a smooth mechanism case and the 9947 device has a grooved case. The concealed vertical rod device is non-handed except when the following device options are used: SD (special dogging), or SS (signal switch). See opposite page for available outside trim and device functions.

Finishes – US3, US3A, US4, US4A, US10, US26, US26D, US26D-AM Antimicrobial, US28, 313, 315 & 643E. US15 and US32D available with 98 Series only.

Top Latch

338 Top Strike

385A Bottom Strike

Bottom Latch

Specifications

Device functions	Device ships EO/DT/NL. Field selectable. For TP, K or L remove NL drive screw from device.
Device lengths	2' 2' (610 mm) Door size 3' 2'4' to 3' (711mm to 914 mm) Door size 4' 2'10" to 4' (864 mm to 1219 mm) Door size
Device centerline from finished floor	39⁵/₈" (1006 mm) Standard Adjustable from 35⁵/₈" (905mm) to 49⁵/₈" (1260mm)
Center case dimensions	8" x 2³/₄" x2³/₈" (203mm x 70mm x 60mm)
Mechanism case dimensions	2¹/₄" x 2¹/₄" (57mm x 57mm)
Projection	Pushbar neutral – 3¹³/₁₆" (97 mm) Pushbar depressed – 3¹/₁₆" (78 mm)
Latch bolt	Deadlocking top & bottom bolt, ⁵/₈" (16mm) throw
Door undercut	¹/₄" (7mm) recommended
Top & bottom Latch case	4¹/₂" x 2¹/₈" x 1¹/₂" (114mm x 54mm x 38mm)
Vertical rods	Round 2-piece adjustable rods – Top rod adjustable from 6'8" (2027mm) to 8'4"(2533mm). Bottom rod adjustable 35⁵/₈" (905 mm) to 49⁵/₈" (1260 mm). Extension rod kits available for doors over 8'4" (2533mm).
Fasteners & sex bolts (SNB)	Includes screw pack for 1³/₄" (44mm) to 2¹/₄" (57mm) thick metal doors. Optional 425 SNB available.
Electric options	**LX** Latchbolt monitor switch **RX** Pushpad monitor switch **RX2** Double pushpad monitor switch **E** Electric unlocking and locking trim **EL** Electric latch retraction **QEL** Quiet electric latch retraction **SS** Signal switch **CX** Chexit delayed exit **ALK** Alarm exit kit **WP-RX** Waterproof request to exit **CON** Allegion Connect
Mechanical options	**GBK** Glass bead kit **PN** Pneumatic latch retraction **LBR** Less bottom rod **PL** Pullman latch **SNB** Sex bolts **SEC** Security screws
Dogging feature Dogging option	Hex key dogging standard **CD** Cylinder dogging **SD** Special center case dogging **LD** Less dogging **DI** Dogging indicator **CI** Cylinder dogging indicator
Strikes	Top – **338** - Unfinished, Bottom – **385A** - Unfinished

Hex key dogging comes standard on 9847/9947 Concealed vertical rod devices

QEL
Quiet electric latch retraction
· Bolt retraction via switch
· Converts exit door to push-pull operation

RX
Pushpad monitor switch
· Signals use of an opening
· SPDT switch to monitor pushpad

CX
Chexit delayed exit
· Meets NFPA 101 requirements
· Self-contained controls, locking, alarm

CON
Allegion Connectors
· Common connectors to connect various door hardware all the way to the power supply

EL
Electric latch retraction
· Enables remote unlatching
· Alternative to manual dogging

ALK
Alarm exit kit
· Unauthorized opening triggers 85-decibel horn
· Set in armed or disarmed mode by key

E (E996L)
Electrified breakaway lever
· Electrified remote locking/unlocking
· Standard in fail safe condition

LX
Latchbolt monitor switch
· Signals use of an opening
· SPDT switch to monitor latch bolt

PN
Pneumatic latch retraction
· For areas where electrical devices banned
· Special linkage for mechanical or pneumatic dogging

DI
Dogging indicator
· Monitor dogging status without a control panel
· Red indicator light shows visibility to dogging from over 75 feet

Standard trim

	EO	DT	NL	NL-OP	TL	TL-BE
	No outside trim Exit only	**Dummy trim** Pull when dogged (not recommended for fire device)	**Night latch** Key retracts latchbolt	**Night latch** Key retracts latchbolt optional pull required	**Thumbturn** Key locks & unlocks (use with DT trim)	**Thumbturn** Blank escutcheon always operable (no cylinder) (use with DT trim)
Product description	9847EO 9947EO	9847DT 9947DT	9847NL 9947NL	9847NL-OP 9947NL-OP	9847TL 9947TL	9847TL-BE 9947TL-BE
Trim description	—	990DT	990NL-R/V	110NL-MD	376T X 990DT	374T-BE X 990DT
Escutcheon plate size	—	3" x 14$^{13}/_{16}$" x $^3/_{32}$" (76x360x2mm)	3" x 14$^{13}/_{16}$" x $^3/_{32}$" (76x360x2mm)		2$^3/_4$" x 10$^3/_4$" x $^{27}/_{32}$" (70x273x21mm)	2$^3/_4$" x 10$^3/_4$" x $^{27}/_{32}$" (70x273x21mm)
Pull center to center	—	5$^1/_2$" (140mm)	5$^1/_2$" (140mm)	—	—	—
Projection	—	2" (51mm)	2" (51mm)	—	2" (51mm)	2" (51mm)
ANSI function	01	02	03	03	11 or 12	16
Cylinder type	—	—	Rim	Rim	1$^1/_4$" Mortise	—
Handing	—	—	—	—	—	—
Optional trim	x990EO x996EO	x996K-DT x996L-DT x696DT x697DT	x996K-NL x996L-NL x696NL x697NL			
Optional #425 SNB quantity for device	6	2	2	6	2	2

	L	L-NL	L-BE	L-DT
	Lever Key locks & unlocks	**Lever – night latch** Key retracts latchbolt	**Lever – blank escutcheon** Always operable (no cylinder)	**Lever dummy trim** pull when dogged
Product description	9847L 9947LF	9847L-NL 9947L-NL	9847L-BE 9947L-BE	9847L-DT 9947L-DT
Trim description	996L-R/V*	996L-NL-R/V	996L-BE-R/V*	996L-DT
Escutcheon plate size	2$^3/_4$" x 10$^3/_4$" x $^{27}/_{32}$" (70x273x21mm)	2$^3/_4$" x 10$^3/_4$" x $^{27}/_{32}$" (70x273x21mm)	2$^3/_4$" x 10$^3/_4$" x $^{27}/_{32}$" (70x273x21mm)	2$^3/_4$" x 10$^3/_4$" x $^{27}/_{32}$" (70x273x21mm)
Pull center to center	—	—	—	—
Projection	2$^7/_8$" (73mm)	2$^7/_8$" (73mm)	2$^7/_8$" (73mm)	2$^7/_8$" (73mm)
ANSI function	08	03	14	02
Cylinder type	Rim	Rim	—	—
Handing	Handed/Reversible	Handed/Reversible	Handed/Reversible	Handed/Reversible
Optional #425 SNB quantity for device	2	2	2	2

* Electrified lever operation available

Notes

98/99 Finishes

Finishes*

Color	US number	BHMA number
Chromium, polished	US26	625
Anodized, aluminum	US28	628
Chromium, dull	US26D	626
Brass, polished	US3	605
Brass, dull	US4	606

Color	US number	BHMA number
Bronze, dull	US10	612
Satin nickel Available for 98 ONLY	US15	619
Satin stainless steel	US32D	630
Duranodic dark bronze	313	710
Black, painted (not flat powder)	SPBLK	693
Flat Black	US19/ 315	622/711
Aged bronze	–	643e

Special finishes

Color	US number	BHMA number
Satin chrome, Antimicrobial	US26D-AM	626-AM
Satin stainless steel, antimicrobial	US32D-AM	630-AM

Pushpad options — Knurled
　　　　　　　　　Embossed "Push"
　　　　　　　　　Braille (Caution-Stairwell), satin stainless steel only
　　　　　　　　　RSS – (Emergency Exit – Push to open and sound alarm) – Red Silkscreen lettering on US32D

* Note: Durable powder coated finishes available at specific special request. PLEASE CONTACT FACTORY.