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, 2001, 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.
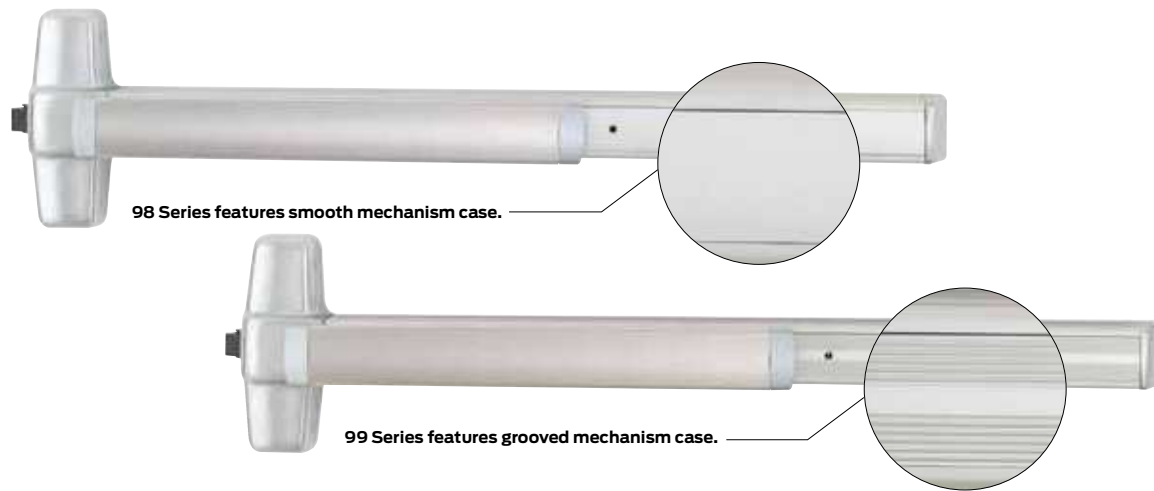
Von Duprin exit devices are available in two external surface styles, designated 98 and 99 Series.

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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Be sure to ask your SSC representative to tell you about **Custom Solutions** by Ingersoll Rand Security Technologies. To learn more visit securitytechnologies.allegion.com.

QuietSolutions   **Custom**Décor   High**Security**and**Safety**   **Environmental**Solutions   **Flexible**Configurations

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 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

Example order string: **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
XX	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 1½ minute alarm kit
ALK-AR3	Auto-reset 3 minute alarm kit
ALK-AR6	Auto-reset 4½ 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)

Code	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
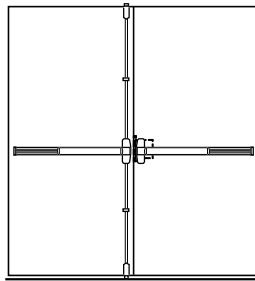
Single door applications
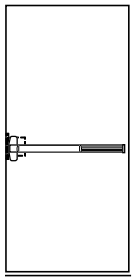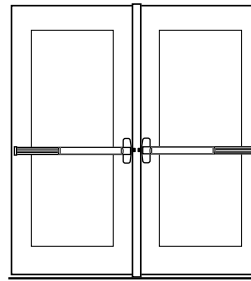

Single mortise lock device
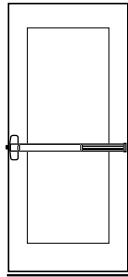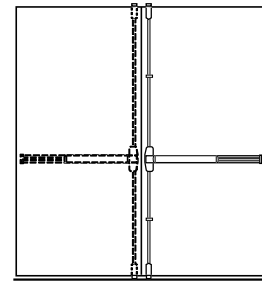

Single rim device

Double door applications

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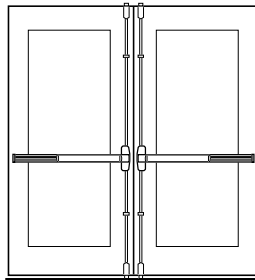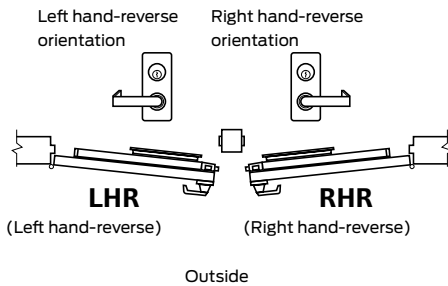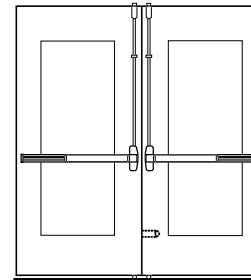

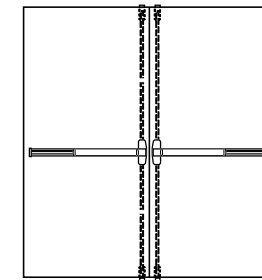Two rim devices with mullion—same direction

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

Door handing

Left hand-reverse orientation

Right hand-reverse orientation

LHR
(Left hand-reverse)

RHR
(Right hand-reverse)

Outside

Outside trim operation
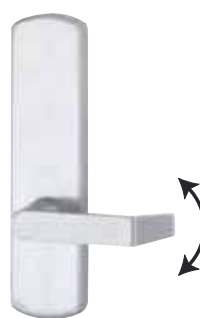
Trim operation lever or knob

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 B502-191. 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)

STA
(St. Annes)
(Handed)

LAT*
Latitude

LON*
Longitude

*Available in Stainless Steel - specify SS when ordering

98/99 Rim exit device

The 299 Strike ships standard, optional strikes available

Hex key dogging comes standard on 98/99 Rim exit devices

98 and 99 Rim exit devices for all types of single and double doors with mullion, UL listed for panic exit hardware. Devices are ANSI A156.3 – 2001 Grade 1. The 98 device has a smooth mechanism case and the 99 device has a grooved case. The rim device is non-handed except when the following device options are used: SD (special dogging), -2 (double cylinder) or SS (signal switch). See Opposite page for available outside trim and device functions. Covers stock hollow metal doors with 86 or 161 cutouts on single doors (may cover cutouts on pairs – consult template).

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

Specifications

Device functions	Device ships EO/DT/NL. Field selectable. For TP, K or L remove NL drive screw from device.
Device lengths	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	$39^{13}/_{16}$" (1011 mm) $39^{11}/_{16}$" (1008 mm) with mullion
Center case dimensions	8" x $2^3/_4$" x$2^3/_8$" (203mm x 70mm x 60mm)
Mechanism case dimensions	$2^1/_4$" x $2^1/_4$" (57mm x 57mm)
Projection	Pushbar neutral – $3^{13}/_{16}$" (97 mm) Pushbar depressed – $3^1/_{16}$" (78 mm)
Latch bolt	Deadlocking, $^3/_4$" (19mm) throw
Fasteners & sex bolts (SNB)	Includes screw pack for $1^3/_4$" (44mm) and $2^1/_4$" (57mm) thick metal or wood doors. Optional 425 SNB available, see page 9 for quantities.
Electric options	LX Latchbolt monitor switch RX Pushpad monitor switch RX2 Double pushpad monitor switch E Electric locking & unlocking 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	-2 Double cylinder AX Accessible device GBK Glass bead kit PN Pneumatic latch retraction XP Extra protection SNB Sex bolts SEC Security screws
Dogging feature **Dogging options**	Hex key dogging standard CD Cylinder dogging SD Special center case dogging LD Less dogging DI Dogging indicator CI Cylinder dogging indicator
Strikes	**299** – Dull black

XP
Extra protection
· 90˚ latch-to-strike contact
· Force resistance of 2,000+ lbs.

CD
Cylinder dogging
· Replaces hex key dogging
· Requires standard $1^1/_4$" mortise cylinder

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

AX
Accessible device
· UL certified to meet new 5 lb. maximum operating force requirement
· Exceeds ANSI/BHMA requirements

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

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

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

Standard trim

	EO	DT	NL	NL-OP
	No outside trim Exit only	**Dummy trim** Pull when dogged	**Night latch** Key retracts latchbolt	**Night latch** Key retracts latchbolt optional pull required
Product description	98EO 99EO	98DT 99DT	98NL 99NL	98NL-OP 99NL-OP
Trim description	—	990DT	990NL-R/V	110NL-MD 110NL-WD
Escutcheon plate size	—	3" x 14$^{13}/_{16}$" x $^3/_{32}$" (76x360x2mm)	3" x 14$^{13}/_{16}$" x $^3/_{32}$" (76x360x2mm)	—
Pull center to center	—	5$^1/_2$" (140mm)	5$^1/_2$" (140mm)	—
Projection	—	2" (51mm)	2" (51mm)	—
ANSI function	01	02	03	03
Cylinder type	—	—	Rim	Rim
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

	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	98L 99L	98L-NL 99L-NL	98L-BE 99L-BE	98L-DT 99L-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