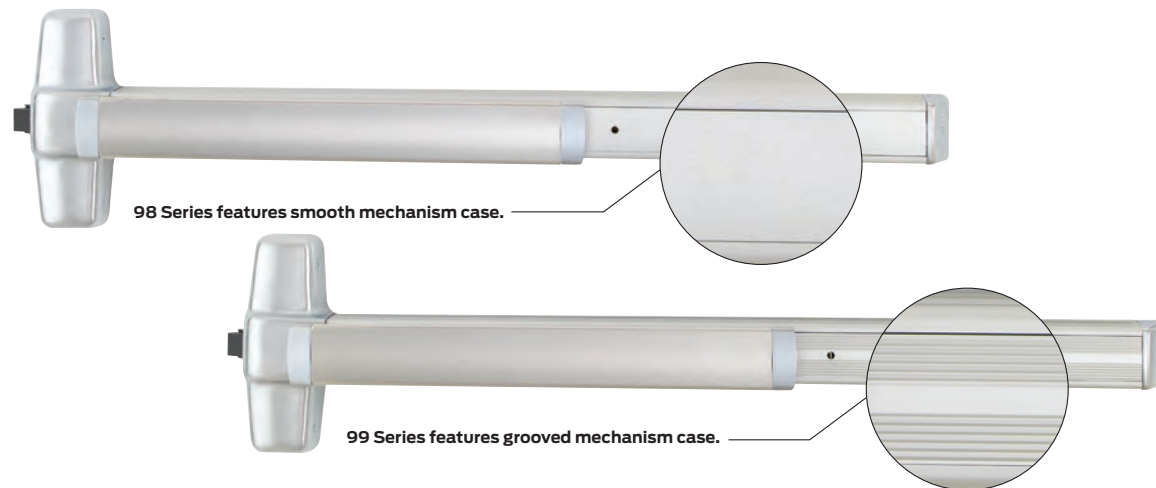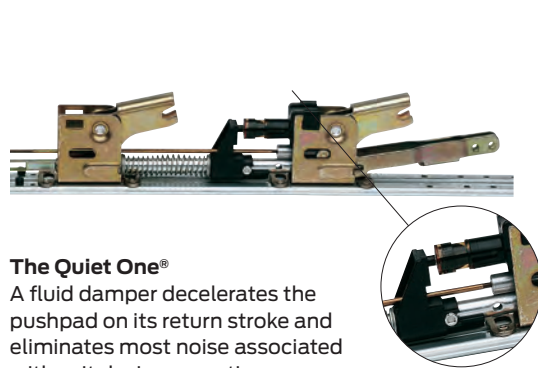# Introduction

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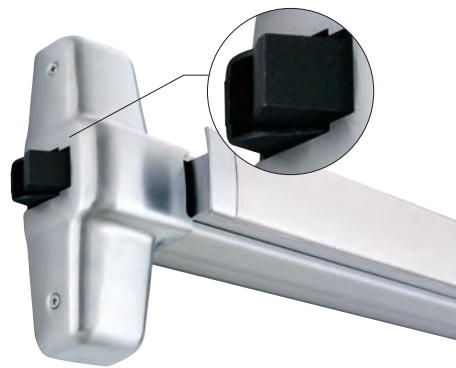
It is intended that the information included in this publication, when properly used, will provide clear and reliable guidelines to the proper general selection and application. However, the scope of the information is necessarily limited.

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**

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

Example order code: **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 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

XP98/99 Rim exit device

XP98/99 Rim exit devices are designed for single and double doors with mullion that require increased security. The XP latch provides twice the static load force resistance of standard exit devices. The "smart" latch changes shape when subjected to external forces. This design enables the exit door to withstand an external attack and remain secure. Additionally, the patented latch bolt design provides greater, longer-lasting latch bolt to strike contact which is not easily affected by the twisting motion of a weakened frame, resulting in an opening that will remain strong. Devices are ANSI A156.3 – 2014 Grade 1 and UL listed for panic exit hardware. The rim device is non-handed except when the following device options are used: SD (special dogging) or -2 (double cylinder). 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.

The 909 Strike ships standard for single or double doors.

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

XP latch provides increased security with its two piece design.

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$^3/_4$" x2$^3/_8$" (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 13 for quantities.
Electric options	**LX-LC** Latchbolt monitor switch, low current **RX** Pushpad monitor switch **RX2** Double pushpad monitor switch **E** Electric locking & unlocking trim **EL** Electric latch retraction **QEL** Quiet electric latch retraction **CX** Chexit delayed exit **ALK** Alarm exit kit **WP-RX** Waterproof request to exit **CON** Allegion Connect
Mechanical options	**-2** Double cylinder (specify handing) **AX** Accessible device **GBK** Glass bead kit **SNB** Sex bolts **SEC** Security screws
Dogging feature **Dogging options**	Hex key dogging standard **CD** Cylinder dogging **CDSI** Cylinder dogging with security indicator **HDSI** Hex dogging with security indicator **SD** Special center case dogging (specify handing) **LD** Less dogging **DI** Dogging indicator **CI** Cylinder dogging indicator
Strikes	**909** – Dull black

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

CD
Cylinder dogging
- Replaces hex key dogging
- Requires 1$^1/_4$" mortise cylinder with inverted cam

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
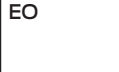- Alternative to manual dogging

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

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	XP98EO XP99EO	XP98DT XP99DT	XP98NL XP99NL	XP98NL-OP XP99NL-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	XP98L XP99L	XP98L-NL XP99L-NL	XP98L-BE XP99L-BE	XP98L-DT XP99L-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