

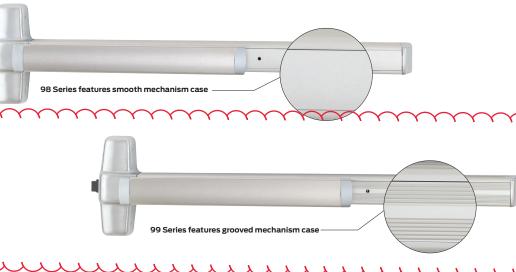




Engineered for value and performance

Von Duprin® empowers its customers to embrace change by providing flexible solutions that can be modified over time, protecting your investment well into the future. Von Duprin 98/99 Series push pad devices have a universal center case design that is unique to the industry and provides superior flexibility—from adding trim, switching handing or adding new retrofit options, you can configure numerous variations in the field without replacing your device.

Von Duprin's exit devices offer durable solutions that are proven in the field to perform under heavy use and abuse and backed by a team of experts experienced in door hardware application and code compliance. Allegion stands behind every Von Duprin product we make with unparalleled customer support thanks to our team of experts based in the U.S. that average more than 15 years of experience, so you are assured to receive expert advice.



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



Latch bolt Deadlocking latch bolt provides security and improved performance at standard device cost.



The Quiet One® A fluid damper decelerates the push pad on its return stroke and eliminates most noise associated with exit device operations. Furnished on all 98/99™ Series exit devices.



How to order

98/99 Rim exit device



98 and 99 rim exit devices for all types of single and double doors with mullion, UL listed for panic exit hardware. Devices are certified to ANSI/BHMA A156.3 2014, 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). Covers stock hollow metal doors with 86 or 161 cutouts on single doors (may cover cutouts on pairs – consult template).

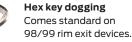
Specifications

Device functions	Device ships <mark>EO</mark> /DT/NL; Field selectable;	
	For TP, K or L remove NL drive screw from device	
Device lengths	3' 2'4' to 3' (711mm to 914mm) Door size	
	4' 2'10" to 4' (864mm to 1219mm) Door size	
Device centerline	39 ¹³ / ₁₆ " (1011mm)	
from finished floor	39 11/16" (1008mm) with mullion	
Center case	8" x 2 ³/4" x2 ³/8" (203mm x 70mm x 60mm)	
Mechanism case	2 ¹ /4" x 2 ¹ /4" (57mm x 57mm)	
Projection	Pushbar neutral – 3 13/16" (97mm)	
	Pushbar depressed – 3 1/16" (78mm)	
Latch bolt	Deadlocking, 3/4" (19mm) throw	
Finishes	605, 606, 612, 625, 626/626AM, 628, 710, 711 and 643e	
	(619 and 630 available with 98 Series only)	
Fasteners and	Includes screw pack for $1^{3}/4^{"}$ (44mm) and $2^{1}/4^{"}$	
sex bolts (SNB)	(57mm) thick metal or wood doors	
	(Optional 425 SNB available, see page 64 for quantities)	

Accessories



299 Strike Ships standard, optional strikes available.



Features and options

Electrified options

LX	Latch bolt monitor switch
RX	Request to exit
RX2	Double request to exit
Е	Electric locking and unlocking trim
EL	Electric latch retraction
QEL	Quiet electric latch retraction
SS	Signal switch
СХ	Chexit delayed exit
ALK	Alarm exit kit
WP-RX	Waterproof request to exit
CON	Allegion Connect

Mechanical options

-2 Double cylinder -2SI Double cylinder with security indicator Accessible device AX GBK Glass bead kit PN Pneumatic latch retraction QМ Quiet mechanical SNB Sex bolts SEC Security screws wн Weep holes XP Extra protection

Dogging feature

Hex key dogging standard

Dogging options

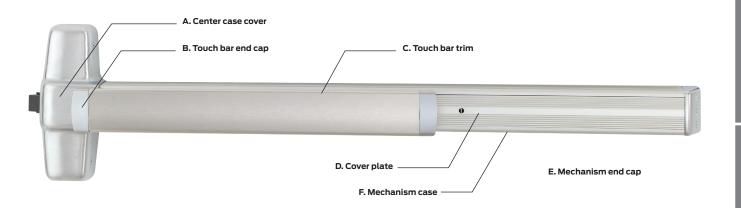
CD	Cylinder dogging

- **CD-CX** Chexit cylinder dogging
- **CDSI** Cylinder dogging with security indicator
- HDSI Hex dogging with security indicator
- **SD** Special center case dogging
- LD Less dogging DI Dogging indicator
- CI Cylinder dogging indicator

Strikes

299 – Dull black

Device finish options



Finishes

Color	BHMA number	A, B, E	с	D and F
Bright brass	605	Bright brass	Bright brass, 605	Buffed anodized
Satin brass	606	Satin brass	Satin brass, 606	Anodized
Satin bronze	612	Plated	Satin bronze, 612	Anodized
Satin bronze, oil-rubbed	613	Oil rubbed bronze	Oil rubbed bronze, 613	Powder coat
Bright chrome	625	Plated	Bright stainless steel, 629	Buffed anodized
Satin chrome	626	Plated	Satin stainless steel, 630	Anodized
Satin stainless steel*	630	Stainless steel	Satin stainless steel, 630	Anodized
Aluminum, anodized	628	Powder coat	Satin stainless steel, 630	Anodized
Duranodic dark bronze	710	Powder coat	Powder coat	Powder coat
Black	622	Powder coat	Powder coat	Powder coat
Aged bronze	643e	Relieved aged bronze	Relieved aged bronze	Aged bronze, no relie

Optional trim

Schlage® HL6 quiet hospital push/pull latch

Von Duprin and Schlage® have collaborated on an exit device trim that provides both accessibility and performance. In combination, the 98/9975 mortise lock device along with the newly designed Schlage HL6 quiet hospital push/pull latch delivers an exit device with mortise lock durability that utilizes an easy to use, ADA compliant push/pull trim. The HL6 is now 50% quieter through dampened paddle action, reducing the noise associated with



lock operation providing healthcare organizations a reliable solution for noise reduction initiatives. The 98/9975HL device is available in most standard architectural finishes, including antimicrobial options. Consult the HL Series <u>catalog</u> or <u>data sheet</u> for complete product information.

392-7 Offset pull

The 392-7 Offset pull is $\frac{3}{4}$ " round stainless steel, with a 7" center to center which matches the 98/99 center case. Often used with a night latch operation. $3\frac{1}{2}$ " (89mm) offset with $1\frac{1}{2}$ " (38mm) clearance.



Vandal resistant trim: Ives VR910 and VR914 Series

VR910 black grip for softer touch and resilience to temperature extremes. VR914 grip in all stainless steel. Grip designed f or comfortable operation.

Featukes

- Stainless steel construction, 11 gauge (0.120" thick); 630 finish only
- Thru-bolts and rugged mounting screws for maximum fastening strength
- Built-in lock protector prevents vandalism to mortise latch bolt (available on certain models)
- Extra-tough stainless steel cylinder collar prevents pipe wrench or similar tool from damaging cylinder; tapered design prevents side impacts from transferring directly to cylinder; collar spins freely.
- Furnished with mounting screws for door thicknesses

of 1³/₄" to 2¹/₄"

- 1¹/₂" (38mm) clearence from grip to door, total projection 1⁷/₈" (48mm)
- Consult the Ives catalog for more information

Model	For use with	Size
VR910DT	98/99 Rim or	5 ¹ / ₂ " x 11"
and VR914DT	vertical rod device	(133mm x 279mm)
VR910NL	98/99 Rim or	5 1/2" x 11"
and VR914NL	vertical rod device	(133mm x 279mm)
VR910M-DT	9875/9975	7 1/4" x 11"
and VR914M-DT	Mortise device	(184mm x 279mm)
VR910M-NL	9875/9975	7 1/4" x 11"
and VR914M-NL	Mortise device	(184mm x 279mm)
(handing required)		

4040XP Series



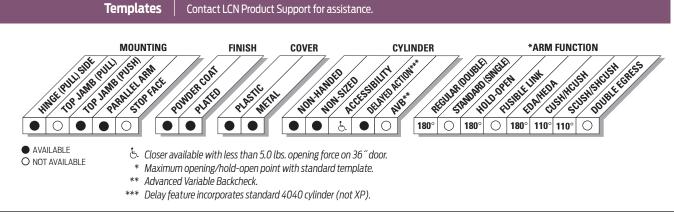
Features

The 4040XP is LCN's most durable and flexible heavy duty closer designed for institutional and other demanding high traffic applications.

Certifications	Grade 1 - ANSI A156.4, UL 10C, ADA, 100 Hour Salt Spray, Meets BAA - Buy American Act
Body Construction	 Cast Iron Body Full Complement Bearings 1-1/2" Diameter Piston 3/4" Diameter Double Heat Treated Pinion Journal
Fluid	All Weather Liquid X Fluid
Handing	Non-Handed
Templating	Peel-n-Stick templates - 2-1/4″ x 5″ Mounting Hole Pattern
Size	Adjustable Spring Size 1-6, includes Patented Green Dial
Warranty	30 years

Special

Cover	Plastic, StandardMetal, Optional
Fasteners	Self Reaming and Tapping Screws (SRT)
Mounting	Hinge (Pull Side), Top Jamb (Push Side), Parallel Arm (Push Side)
Arms	Regular Arm
Finishes/Colors/ Powder Coat	 Aluminum (689) Statuary Bronze (690) Light Bronze (691) Black (693) Dark Bronze (695) Brass (696) Custom colors optional Optional SRI primer - powder coat only Optional plated finishes



Customized installation templates or products may be available to solve unusual applications.



APPLICATIONS

- For aluminum, hollow metal, or wood swinging doors and frames.
- Can be used with hinge or pivot mounted door.
- Adapter plates and other installation accessories available for unusual conditions.

FEATURES COMMON TO 4000 SERIES

- Each closer (except 4050, 4050T, 4040XP, 4040XPT, 4030, 4030T) is designed for a specific mounting; hinge side, top jamb, or parallel arm. 4040XP closer with regular or hold-open arm mounts hinge side or top jamb. 4030, 4040XP and 4050 regular parallel arm closers include 62PA SHOE required to parallel arm mount either regular or hold-open arm.
- Handed for right or left swinging doors, except for 4000T, 4030, 4030T, 4040XP, 4050, 4050T and 4040XPT.
- Closers to meet ADA reduced opening force requirements except 4000T.
- Adjustable hydraulic backcheck cushions opening swing prior to 90°.
- Separate regulation of general closing speed and latching speed.
- Joints in regular arm and shoe adapt to uneven trim.
- Reversible shoe to boost latching power on double lever arms.
- Available in a wide range of standard or optional custom powder coat finishes to blend with door and frame.
- Plated finishes available to accent door and frame.
- Not designed for exterior mounting or exposed to elements.

DESIGN ASSISTANCE

LCN has been providing reliable solutions to unique door control problems since 1925. Design and specification assistance are only a phone call away.

Contact LCN for assistance or technical information at **877-671-7011** or **FAX 800-248-1460 (Order Entry)**, Fax **815-879-1495** for Product Support.

WARRANTY

30 year limited warranty; 25 year limited warranty (4050). See General Information Section for complete warranty details.

SPECIFICATIONS

Refer to "SPECIFICATIONS" section for suggested architectural specifications.

MATERIALS

- High strength **cast iron** or **cast aluminum** (4050) cylinder.
- Forged steel main arms.
- One piece forged steel piston.
- **Double heat treated** pinion.
- LCN's all weather "Liquid X" fluid performs to temperature ranges from 120°F (49°C) to -30°F (-35°C) without any seasonal adjustment.
- LCN's standard all weather fluid performs to temperature ranges from 120°F (49°C) to -30°F (-35°C)..
- High efficiency, full complement, low friction bearings.
- Tamper resistant regulating screws.
- Full rack and pinion hydraulic action.
- Quiet, low friction track and roller combination for all single lever arm (track style) closers.

FINISHES

- Available in six standard or optional custom powder coat finishes to blend with door and frame.
- LCN's powder coat finishes surpass 100 hours of salt spray which is over four times the ANSI standard for corrosion resistance.
- For installations where a higher level of corrosive resistance is required, LCN offers an optional special rust inhibiting (SRI) pretreatment. Closers that combine the exclusive LCN powder coat finish and the SRI pre-treatment exceed the ANSI standard for corrosion resistance even further.
- Plated finishes are available as an option to accent door and frame. (SRI not available with plated finishes).

LISTINGS & APPROVALS

UL listed for self-closing doors without hold-open under "SWINGING DOOR CLOSERS" (GVEV) file R1943.

Tested and certified under ANSI Standard A156.4 Grade One. Consult factory for details.

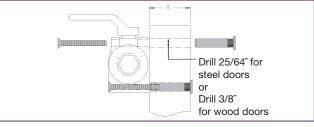
Consult factory for other listings such as; cUL, California State Fire Marshal, Bureau of Standards and Appeals.

POSITIVE PRESSURE

LCN closers have been certified for three hours by UL to be in compliance with UL 10C. Contact LCN for specific details on door closer fire ratings.

FASTENERS

4010, 4010T, 4020, 4020T, 4040XP, 4040XPT, 4050, 4050T, 4110, 4110T Series closers are shipped with: A standard SELF-REAMING and TAPPING SCREW (SRT) pack that contains Philips head SRT screws to install the closer. 4000T series closers are shipped with: A standard WOOD and MACHINE SCREW (WMS) pack that contains Philips head wood and machine screws to install the closer. 4030, 4030T series closers are shipped with: A standard WOOD and SELF-TAPPING MACHINE SCREW (WMS) pack that contains Philips head wood and self-tapping machine screws to install the closer.Standard LCN thru bolts (TB) can be installed on 1-3/4″ (44 mm) thick doors with 1/4-20 machine screws. Optional thru bolt (TB) sizes are available for 1-5/8″ (41 mm) or 1-3/8″ (35 mm) door thickness, but this must be specified when ordering.



Notes:

- 1. For Thru Bolts, specify door thickness if other than 1-3/4" (44mm),
- represented in diagram as dimension "X".
- 2. Phillips head, metric machine screws are available, please specify.
- 3. LCN recommends the use of wood screws, available in optional WMS screw packs, for wood door applications.

MAINTENANCE

Closers mounted according to LCN installation instructions require no periodic maintenance or adjustments.

