

Door control: Choosing the right LCN closer

Door control is not just to close the door, but also to provide enhanced security. The proper door closer will control a door in both the opening and closing cycles to prevent damage and injury caused by abuse, wind or other factors.

Since 1876, LCN has been the undisputed innovator and leader in the door control. LCN offers a complete line of cast iron and cast aluminum door control products including heavy-duty hydraulic closers, power operators, fire/life-safety closers/holders, high-security closers and more.

LCN products feature quality components for increased security, high performance and a long service life. These features include:

- Heavy-duty forged steel arms for increased door closer stability and control.
- Double heat-treated pinions/full complement bearings to reduce wear and leaks.
- All-weather fluid for consistent performance through every season.
- Fast power adjust dial allows for easy adjustments and maintenance for maximum door control.
- Products that meet or exceed ANSI/BHMA minimum industry standard cycle requirement.
- Products that meet ADA requirements.
- Products that are UL Listed.

With all of the available types and options, it can be difficult to know which closer to specify. Considerations include frequency of use, life-cycle cost and aesthetics with the necessary features and functions. Additionally, it's important to think about accessibility, fire and life safety code requirements.



Considerations for choosing a closer:

- Code requirements
- Size/durability
- Grade
- Material
- Type
- Arm/function
- Spring size
- Fluid
- Fasteners
- Finish
- Mounting styles



Material

Door closers are made of cast iron or cast aluminum. While cast aluminum closers can be an alternative solution for some facilities and applications with budget constraints, cast iron closers are preferred by many institutions because of the material’s compatibility with the high-grade steel components within the closer. Where closers are subject to millions of opening and closing cycles, this durability is extremely important in high-abusive, high-traffic areas.

LCN door closers go through robust testing to ensure you get performance you can trust in real-world applications. Cast iron closers are designed to last for 25-30 years or the life of the building, which provides a lower total cost of ownership and minimizes the risk of malfunctioning or broken closers at a high-traffic opening.

Historically, many specifications have listed cast aluminum closers as equal to cast iron closers. However, these products do not perform the same and are not equal in quality and durability. When writing closers in to the specification, be sure to identify the best product, cast iron or cast aluminum, to meet the performance and durability requirements of the opening.

LCN cast iron closers

Heavy-duty cast iron was chosen for its durability and strength. It features, superior burst and yield strength, as well as natural graphite that self-lubricates parts, reducing wear. The robust wear eliminates internal leaks and provides minimum porosity.

The 4000 Series is LCN’s most durable heavy-duty closer designed for the most demanding, high use and abuse applications. Built from the inside out, the LCN portfolio combines tougher, bolder construction with proven technology—setting the standard for reliability, longevity and value in high-use applications.

Below is a list of LCN cast iron closers:

Series	Type	Application	Compare to
4040XP/ 4040XPT	Surface mounted closer	High traffic	Sargent 281 Corbin Russwin 8000, Norton 9500
4010/4020/ 4110/4010T/ 4020T/4110T	Surface mounted closer	Heavy duty, institutional, application specific	N/A
4030/4030T	Surface mounted closer	Interior, moderate traffic	Corbin Russwin DC6000
4000T	Surface mounted closer	Interior pocket doors	N/A
1460/1460T	Surface mounted closer	Universal for light traffic	Corbin Russwin DC6000
1260	Surface mounted closer	Universal, ADA	Corbin Russwin DC3000
2210/2210DPS	High security closer	Heavy duty, track closer	N/A
4210/4210T/ 4510/4510T	High security closer	Heavy duty, anti-tampering / vandalism	N/A
3030/3130	Concealed closer	1-3/4” interior doors	N/A
2010/5010	Concealed closer	Institutional, high traffic	Sargent 200

LCN cast aluminum closers

Cast aluminum closers provide an alternative, high-quality, cost effective solution to cast iron closers. LCN cast aluminum closers feature a patented design with the most common hole-patterns in the industry.

LCN cast aluminum closer models include:

Series	Type	Application	Compare to
4050A*	Surface mounted closer	High traffic, high abuse	Norton 7500 Sargent 351 Yale 4400 Dorma 8900
1450	Surface mounted closer	Frequent traffic, low abuse	Norton 8000 Sargent 1430 Yale 3000 Dorma 8600
1250	Surface mounted closer	Low traffic, low abuse	Norton 1600 Sargent 1130 Yale 50 Dorma 7400

* For direct drop-in replacement for 4050A, contact Technical Support at 877-671-7011.



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Pressure Relief Valve technology

What is the likelihood that your door opening will withstand excessive pressure? Wind and environmental conditions, abusive users or mobile equipment can often cause excessive pressure when the door is forced open or closed. If this is the case, you need to consider whether or not you want a closer that uses Pressure Relief Valve (PRV) technology. This technology features a built-in valve that relieves excessive pressure around the cylinder.

LCN believes that one of the fundamental solutions that a door closer provides is control—door control to prevent personal injury and property damage. Door closers with built-in PRV *claim* to increase the service life in applications where the door is forced open or closed. However, PRV closer technology greatly reduces door control, and the potential effects of lost door control may result in property damage, personal injury, increased maintenance costs and liability exposure. LCN believes that these effects far outweigh the perceived benefit of increased service life. Therefore, **no LCN closers contain PRV Technology.**

Reliability, quality, service and support

Material control is also foundational to the consistent performance of LCN closers. The quality of casting can affect a closer's performance over its lifecycle. Consequently, we hold our material suppliers to rigorous standards for the cut and type of raw materials they provide. Suppliers are required to show certification that the raw materials adhere to LCN standards. This level of control and monitoring ensures the strength of elements in all the materials LCN uses for casting our products.

Learn more at [Allegion.com/us](https://www.allegion.com/us)

About Allegion

Allegion (NYSE: ALLE) is a global pioneer in seamless access, with leading brands like CISA®, Interflex®, LCN®, Schlage®, SimonsVoss® and Von Duprin®. Focusing on security around the door and adjacent areas, Allegion secures people and assets with a range of solutions for homes, businesses, schools and institutions. Allegion had \$2.7 billion in revenue in 2018, and sells products in almost 130 countries. For more, visit www.allegion.com.

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