



# KNOX FDC PROTECTION PROGRAM





Knox FDC products provide a complete system that provides protection for both the intake and discharge sides of water-based fire protection systems. This secure, high-quality system provides fire department control over FDC equipment at no cost to your department. Knox FDC Wrenches are provided to your department at no charge. Building owners in your jurisdiction will be able to purchase Knox FDC Locks along with the Knox Standpipe Lock® and Knox Storz Lock®. These products protect the integrity of fire sprinkler systems, hydrants, and standpipes. FDC products can commence once a fire department has ordered and received an inventory of free Knox FDC wrenches.



## SECURE FIRE PROTECTION SYSTEMS

Unlike other non-secure FDC caps, Knox locking FDC products protect FDCs from getting clogged or vandalized, ensuring quick access to supplement fire sprinkler systems. Knox FDC Lock removal is quick and easy with a Knox FDC Wrench™. The universal FDC Wrench allows for rapid access to FDCs, while lowering maintenance costs to owners due to unnecessary backflushing from clogged pipes.

## PROTECT SPRINKLER SYSTEM PERFORMANCE

A fire sprinkler system is subject to malfunction and malicious attack when foreign matter, such as debris, trash, or animal nests, enters the system through an unprotected FDC connection. Knox FDC, Storz and Standpipe Locks deliver clean FDC lines and undamaged connection threads.



**Actual Attack Nozzle**  
A bird's nest, 3 birds, and a tennis ball entered an unprotected FDC clogging the backup fire line.

## ENFORCE FDC CODES

Language in the International Fire Code (IFC), International Building Code (IBC), and NFPA 1 Fire Code all authorize the installation of locking FDC caps.

### 2021 NFPA 1, Fire Code | Chapter 13.1.13<sup>1</sup>

"The AHJ shall have the authority to require locking fire department connection (FDC) plugs or caps on all water-based fire protection systems."

### 2021 IFC | Chapter 912.4.1<sup>2</sup>

### 2021 IBC | Chapter 912.4.1<sup>3</sup>

"Locking Fire Department Connection Caps: The fire code official is authorized to require locking caps on fire department connections for water-based fire protection systems where the responding fire department carries appropriate key wrenches for removal."

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## REDUCE THEFT OF BRASS CONNECTIONS

In recent years, communities have seen an increase in stolen copper and brass including siamese brass FDC swivel connections. A stolen FDC connection places a building, its occupants, and responders at risk. To combat the theft of FDC swivel connections, Knox has developed the Knox FDC Lock with Swivel-Guard™ that covers the entire swivel connection and minimizes the potential of the connection being stolen. With Swivel-Guard, the set screw is inaccessible making it difficult to remove the brass connection.



## PROTECT AGAINST WATER THEFT

Water is a precious commodity. The Knox Standpipe Lock and Knox Storz Lock caps lock the connection to non-authorized users providing protection against water theft and the potential introduction of harmful substances into the water system. Since both products hold water pressure, they can safely be installed on hydrants.



### 2018 IFC | Chapter 905.11

### 2018 IBC | Chapter 905.11

"The fire code official is authorized to require locking caps on the outlets on dry standpipe connections where the responding fire department carries key wrenches for the removal that are compatible with locking FDC connection caps."

### 2018 International Existing Building Code (IEBC) | Chapter 10, 1011.2.1<sup>4</sup>

Where a change in occupancy classification occurs or where there is a change of occupancy within a space where there is a different fire protection system threshold requirement in Chapter 9 of the International Building Code that requires an automatic fire sprinkler system to be provided based on the new occupancy in accordance with Chapter 9 of the International Building Code, such system shall be provided throughout the area where the change of occupancy occurs.

<sup>1</sup> Also enacted in 2003, 2006, 2009 and 2012 (Chapter 912.3.1) and 2015 (Chapter 912.4.1) of IFC editions

<sup>2</sup> Authorized by 2021 IFC and IBC (Chapter 912.4.1) and 2021 NFPA1 (Chapter 13.1.13)

<sup>3</sup> Also enacted in 2003, 2006, 2009, and 2012 (Chapter 912.3.1) 2015 and 2018

<sup>4</sup> Also enacted in 2006, 2009 and 2012 (Chapter 912.3.1) 2015 and 2018 (Chapter 912.4.1) of IBC editions

<sup>5</sup> Also enacted in 2009, 2012, 2015, and 2018 (Chapter 13.1.12)

## KNOX FDC PROTECTION PRODUCTS

|                             | KNOX FDC LOCK®   | KNOX STORZ LOCK®   | KNOX STANDPIPE LOCK®                                 |
|-----------------------------|--|--|--|
| <b>Construction</b>         | Stainless Steel Construction   | Aluminum   | Stainless Steel exterior with solid brass connection |
| <b>Weight (approximate)</b> | 2.5" with Swivel-Guard = 4 lb<br>2.5" = 3 lb; 1.5" = 1 lb            | 4" = 4 lb;<br>5" = 7 lb  | 2.5" = 7 lb  |
| <b>Size</b>                 | 2.5" & 1.5" Male NH  | 4" and 5" sizes  | 2.5" Female NH                                       |
| <b>Finish / Options</b>     | Stainless Steel<br>Optional Swivel-Guard™ provides enhanced security | Dark - hard anodized aluminum;<br>Kits available with straight or 30° elbow adapters and StorzGuard™ cap | Stainless steel                                      |



Knox FDC Lock with Swivel-Guard™ locked onto siamese connection



Knox Storz Lock secured onto a large FDC



Knox Standpipe Lock on a rooftop standpipe

## SIZES AND THREADS

In addition to the National Hose Thread (NH), the Knox Company manufactures additional thread types as requested by fire departments. If your jurisdiction does not use the NH thread (formerly referred to as NST) thread patterns, or to confirm your Storz and Standpipe lock sizes, contact your region's territory sales manager.

## KNOX FDC WRENCHES

Once the types of FDC protection products and thread patterns needed are determined, Knox will deliver FDC Wrenches to your department free of charge. All registered FDC program participants are encouraged to request additional FDC Wrenches for their mutual aid departments. A special contractor registration form is also available if your department wishes to authorize local contractors to obtain Knox FDC Wrenches.



**SECURE FIRE DEPARTMENT CONNECTIONS**

**Trust Knox Locking FDC Caps**  
to protect what matters  
when it matters.



## THE KNOX FDC PROTECTION PROGRAM

- Authorized by International Fire and Building Codes and NFPA 1
- Delivers long-term FDC protection against vandalism
- Prevents debris from entering sprinkler systems
- Provides secure protection at no cost to your department

## DEPEND ON KNOX QUALITY

Knox FDC, Storz, and Standpipe Locks are part of the Knox Rapid Access System manufactured by the Knox Company. The highest quality materials and workmanship are used in the manufacturing process.

## GETTING STARTED

- Develop a policy for your jurisdiction
- Select the FDC products that fit your community's needs and thread patterns
- Call Knox to get free FDC Wrenches for vehicles, personnel, and mutual aid departments
- Publish your FDC policy and requirements on your website
- Provide training using the Knox FDC Wrench

TO LEARN MORE,

CALL: **1.800.566.9269** OR VISIT: **KNOXBOX.COM/FIRE-DEPARTMENT-CONNECTION**

## ABOUT THE KNOX COMPANY

Since 1975, the Knox Company has successfully developed innovative rapid access solutions for first responders with products that provide fast, safe, and secure entry into commercial, industrial, and residential properties, while minimizing damage and maximizing safety. Today, more than 15,000 fire, EMS, and law enforcement departments/agencies depend on Knox products to gain access into over one million buildings/properties.



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