

Knox® FDC Plug

The Knox[®] FDC Plug has been designed for ease-of-use when installing or removing the plug from a connection. Fire personnel properly equipped with a Knox Keywrench can quickly remove the plug. In the event of debris or ice buildup on the locking bolt head, a small flathead screwdriver or similar tool will quickly remove any foreign matter.

Plug Identification

Each Knox FDC Plug is etched with a unique serial number on the plug face. The plug thread size and diameter is etched on the back of the plug. Verify that the connection coupling thread is the same size before attempting plug installation.





Installation



- Remove warning tag. Remove all debris from connection coupling threads and from inside the pipe. Flush system if necessary.
- 2 Taking the Knox Keywrench, turn the locking bolt *counter* clockwise until it stops to ensure it is fully unlocked.



Place the FDC Plug into coupling and *hand turn* clockwise until no threads are showing. Do not use spanner. Hand tighten ONLY.



- Tighten locking bolt head clockwise with Knox Keywrench until firm.
- Notes: For Swivel-Guard model, line up lugs on swivel with cut outs in swivel guard ring, then spin swivel to thread FDC plug into the connection.
 - FDC Plug should easily thread into connection coupling (loose fit). If the FDC Plug thread binds, remove and check threads for damage or incorrect size.

Removal



Inspect locking bolt head and remove any debris, if necessary.



Use the Knox Keywrench to turn the locking bolt head *counter* clockwise until fully unlocked (Keywrench will stop).



Use the pins to unscrew the plug from the connection.



If the locking bolt is completely loosened and the plug will still not release, use the spanner end of the Keywrench to engage the pins on the face of the FDC plug and unscrew *counter* clockwise as shown above.

CAUTION

Knox FDC Plugs are not designed to function as pressure-seal plugs for wet systems. If the check valve upstream is defective and leaks water, the water will go through the Plug to show leakage. The defective check valve must then be repaired.

If your FDC system is back flushed for clean out, you must remember to remove all of the Knox FDC Plugs so that contaminated water and debris will not flood the plugs and cause contamination problems. This is especially important if the sprinkler system has developed microbial infestation.

FDC plugs should be inspected by a qualified inspector at least once a year to ensure situations have not occurred that would damage the device.



Installers - Please Read!

Recommended Procedure to Install ALL FDC Brass Adapters

Theft of materials such as copper and brass are a growing problem for both property owners and firefighters. Unfortunately, FDC connections now fall victim to both vandalism and theft. Knox recommends taking the following steps to ensure the entire FDC assembly is permanently secured to the pipe thread on the building. The FDC brass must be well-secured to the pipe, or the entire housing and pipe is at risk of being stolen.

> This procedure involves installing one or more 5/16-18 Allen set screws as well as a special permanent adhesive in order to secure FDC Brass to the pipe thread on the building. This will minimize the chance of theft.



Don't let FDC brass fall victim to theft!



Use **Letter F** drill bit to drill a hole entirely through the brass adapter lip, approximately 1/2" from lip edge. One hole provides extra security. Three holes spaced 120° apart will provide much better security.



2 Tap threads in the hole/s using a 5/16-18 thread tap.



Clean pipe threads thoroughly with solvent, wire brush, and dry completely. **NO** grease or oil can be present on the pipe threads in order for adhesive to work properly.



Apply Permabond HM162 to **BOTH** threads on adapter and threads on pipe. Coating should be thin, but needs to completely coat the threads.



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