



Product Alert for Kidde Fire Systems Low Pressure CO₂, Nozzle Cover Assembly (Frangible Disc) Issue

April 16, 2024

Type of Notification: Performance/Safety Related Concern

FM Approvals has been made aware by Kidde-Fenwal Inc. of a potential safety related issue involving the Kidde Fire Systems Low Pressure Carbon Dioxide Extinguishing System. The root cause of the concern is related to a quality control issue.

Company Identity: Kidde-Fenwal, Inc.
Address: 400 Main Street
Ashland, MA 01721
USA

Contact Information: Technical Services at kidde_techsupport@carrier.com

FM Approval Status: FM Approved

Hazard Involved: The product in question is any Kidde Fire Systems Low Pressure Carbon Dioxide (LPCO₂) Extinguishing System that includes a Frangible Sealing Disc, P/N WK-260885-000, which is used in the Flange and Cover Assembly for Type V Nozzles, P/N 81-844492-000. It has been determined that the frangible disc may not rupture at the minimum nozzle pressure of 150 psi, which could result in the system not discharging into the protected hazard.

If you suspect you are in possession of a LPCO₂ system with the affected nozzle cover assembly, please follow the process indicated in the attached Kidde Fire Systems Product Safety Notice bulletin, procedure, and notification. The solution detailed will allow the agent to flow if the system is discharged, but will no longer prevent the potential infiltration of debris into the nozzle. FM Approvals has been advised that a replacement part is under development.

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WARNING: IMPORTANT PRODUCT SAFETY NOTICE

#2023-02S.2

Date: October 13, 2023
To: Engineered System Distributors
From: KFI Product Safety Office
Subject: Important Product Safety Notice - Action Required - WK-260885-000 not rupturing at 150PSI

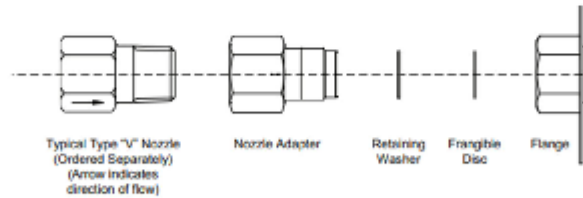
As a responsible manufacturer for fire safety products, product safety is always our first priority. Given their life safety and property protection function, the performance and reliability of our products in your end-use applications are of paramount importance to us.

You are receiving this Safety Notice 2023-02S.2 because we have identified a potential safety issue with the frangible (sealing) disc, P/N WK-260885-000, which may potentially cause property damage, injury or death (see Issue below). Due to this action is required on your part. Please instruct your sales, design, purchasing, installation, and service personnel to read the below carefully and take the Required Actions (see below).

If you are a distributor that has sold the Potentially Affected Product (see below) to an end-customer, then we ask that you communicate this information to the potentially affected end-user as described in the instructions provided below.

Issue

- The frangible (sealing) disc, P/N WK-260885-000, may not properly rupture at the LPCO₂ minimum nozzle pressure allowed per NFPA 12.
- The frangible (sealing) disc is provided as part of the Flange & Cover Assembly, P/N 81-844492-000, (see below graphic) for use with the Type V Nozzles.



- Should the frangible (sealing) disc fail to rupture properly, it may prevent the LPCO₂ system from properly suppressing a fire event.
- This notification only applies to LPCO₂ system(s) installed with the Type V Nozzle Flange & Cover Assembly.



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Potentially Affected Products

The below table lists the products that are potentially affected with corresponding ship/date code of January 2, 2020 through year to date.

Table 1. List of Potentially Affected Part Numbers When Installed As Part of a LPCO₂ system

Part Number	Description	Production Date Range
81-844492-000	Flange and Cover Assembly, Type V Nozzle	Jan 2, 2020 - YTD
WK-260885-000	Disc, Type V Flange and Cover Assembly	Jan 2, 2020 - YTD

Implemented Actions

Kidde-Fenwal, Inc. is taking all steps necessary to find the root cause and will provide an update as soon as more information is available.

Required Actions

Given their life safety and/or property protection function, the performance and reliability of our products in end-use applications and/or life safety systems are of paramount importance to us. We expect that this is also of the highest importance to your company. Therefore, we ask you to complete the steps below:

- **Immediately** review your office's purchase history for P/N 81-844492-000 and P/N WK-260885-000 to determine whether either item has been sold or installed onto a Low-Pressure Carbon Dioxide (LPCO₂) suppression system. Your customer service representative can assist you with this review.
- Should your office determine that either item was installed onto a LPCO₂ system, **immediately** remove the frangible (sealing) disc, P/N WK-260885-000, from any Type V Nozzle Flange & Cover Assemblies (P/N 81-844492-000) installed as part of the LPCO₂ suppression system. Once Kidde-Fenwal, Inc. completes its investigation, we will provide further guidance to your office.
- Failure to immediately remove the frangible disc may prevent the LPCO₂ system from properly suppressing a fire event.
- This notification only applies to those LPCO₂ system(s) installed with the Type V Nozzle Flange & Cover Assembly.



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Next Steps

1. **Immediately** notify the affected end-customers of the Issue using the notification attached below. Please keep records of these transmittals so you can report in the Reply to Us form that you have completed this step.
2. **Immediately** visit the affected sites to perform the Required Field Action.
3. At the site, remove the frangible (sealing) disc from the Type V Nozzle Flange & Cover Assembly, as detailed in the Required Actions.
4. Complete the Reply to Us questions below and provide status of the Required Actions in the Reply to Us form for our mutual record keeping purposes.

Questions or Concerns

Thank you for your understanding. These measures cannot be conducted successfully without you. The customer service team in Kidde-Fenwal, Inc. and your responsible Technical Services at (866) 287-2531 or kidde_techsupport@carrier.com will be glad to help you with any questions that may arise.

REPLY TO US

In order to ensure that mandatory field actions are understood and performed we require you to:

1. Fill in the information below and submit this document using the button below within **2 weeks** of this letter.
2. Revert back to Kidde-Fenwal, Inc. upon completion of mandatory field actions.

I hereby confirm that as a customer of Kidde Fenwal, Inc.

<input type="checkbox"/>	I have received, read and understand the contents of this Safety Notice 2023-02S.2 and have flowed down the Safety Notice to sales, design, purchasing, installation and service personnel to read the below carefully and take the Required Actions.
<input type="checkbox"/>	I confirm that my office has NOT sold or installed either the frangible (sealing) disc or the Type V Nozzle Flange & Adapter Kits at any LPCO ₂ project sites.
<input type="checkbox"/>	I have identified impacted LPCO ₂ project site(s) and have already removed the frangible (sealing) disc from the installed Type V Nozzle Flange & Adapter Kits.
<input type="checkbox"/>	I have identified impacted LPCO ₂ project site(s) and I will perform the Required Action to remove the frangible (sealing) disc from potentially affected LPCO ₂ installation(s) and will regularly report back on our status and progress, including total number of risk mitigations carried out.
<input type="checkbox"/>	I intend to communicate this Safety Notice to my potential affected LPCO ₂ end-customers, and to ensure that the required field actions are performed.

Full Name	Date	Signature

Please email the completed document to kidde_techsupport@carrier.com. If you have any questions or concerns, please contact Technical Services at (866) 287-2531 or kidde_techsupport@carrier.com.



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