



## INSTALLATION INSTRUCTIONS

## Grate Nozzle Upgrade Kit

### 1. DESCRIPTION

This document covers the installation of the Model GN202 Grate Nozzle deflector upgrade kits shown in Table 1. The kits are intended to be used with Viking Grate Nozzles in order to upgrade the nozzle assembly from a model GN200 to GN202.

**NOTE: These kits are not applicable for upgrading the Model GN201 Nozzles. Contact Viking Technical Services at 1-877-384-5464 or email techsvcs@vikingcorp.com for further assistance.**

| Table 1: Nozzle deflector replacement kits |  |
|--|--|
| Part Number                                | Description  |
| F25224                                     | GN202 Deflector upgrade kit for 90° Grate Nozzles  |
| F25223                                     | GN202 Deflector upgrade kit for 180° Grate Nozzles |
| F25222                                     | GN202 Deflector upgrade kit for 360° Grate Nozzles |

The nozzle deflector replacement procedure is shown below.

### 2. LISTINGS AND APPROVALS

Refer to the Model GN202 Technical Data Sheet for applicable listings and approvals and other product related information.

The Model GN202 Grate Nozzle must be used in accordance with:

1. the product's listings, approvals, and associated design requirements.
2. the recognized design and installations standards issued, for example NFPA and FM.
3. the latest revisions of all applicable manufacturer's documentation.

**NOTE: Governmental codes, ordinances, and standards may apply and may differ from one another.**

### 3. KIT CONTENTS

1. Model GN202 Grate Nozzle deflector
2. Gasket (not required or included for 360° versions)
3. Replacement retaining bolt
4. Replacement PTFE washer

**NOT included: 1/2" Hex key, flat-head screw driver**

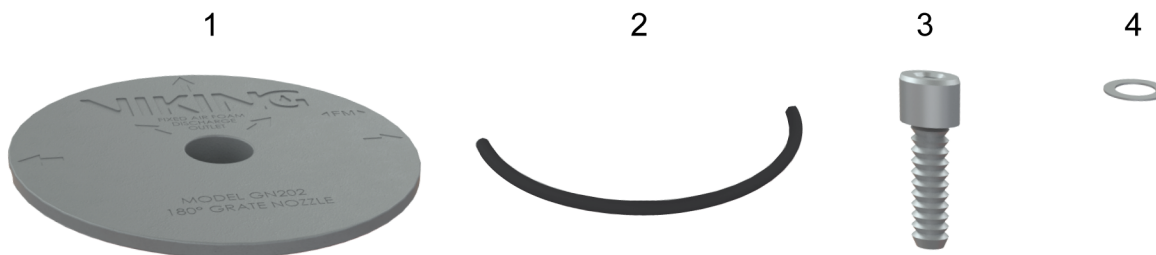


Figure – 1: Kit Contents

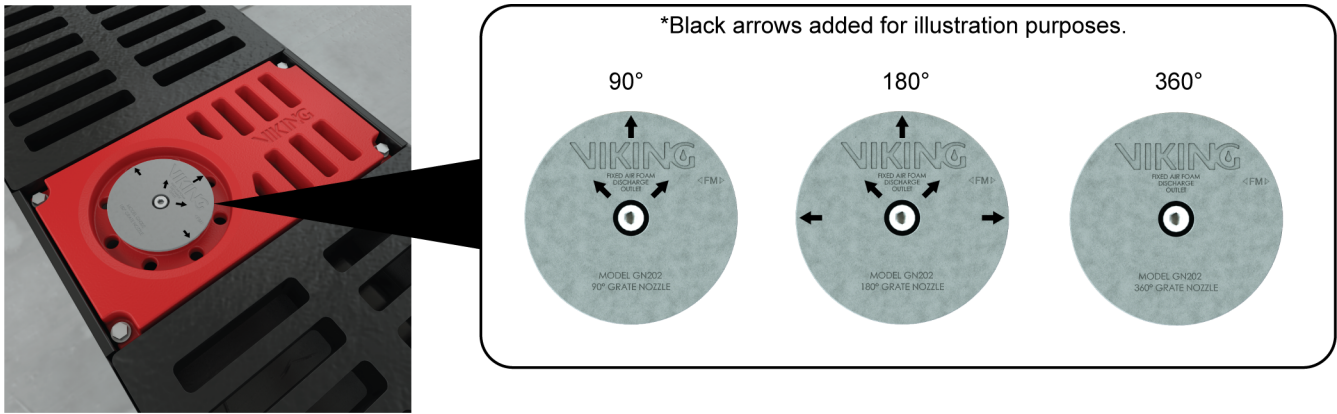
**4. PROCEDURE**

**⚠ WARNING**

Any system maintenance or testing that involves placing a control valve or detection system out of service may eliminate the fire protection of that system. Prior to proceeding, notify all Authorities Having Jurisdiction. Consideration should be given to employment of a fire patrol in the affected area.

**NOTE: Dispose of any items noted in the procedure via a recognized recycling system.**

1. Ensure the system has been taken out of service.
2. Take note of the deflector angle markings and orientation.



**Figure – 2 Deflector Orientation**

3. Remove and dispose of the 1/2" retaining bolt (A).



**Figure – 3 Removing the Retaining Bolt**

- Remove and dispose of the existing nozzle deflector (B). If necessary, use a tool (flat head screw driver) to separate the nozzle deflector (B) from the nozzle body (C).

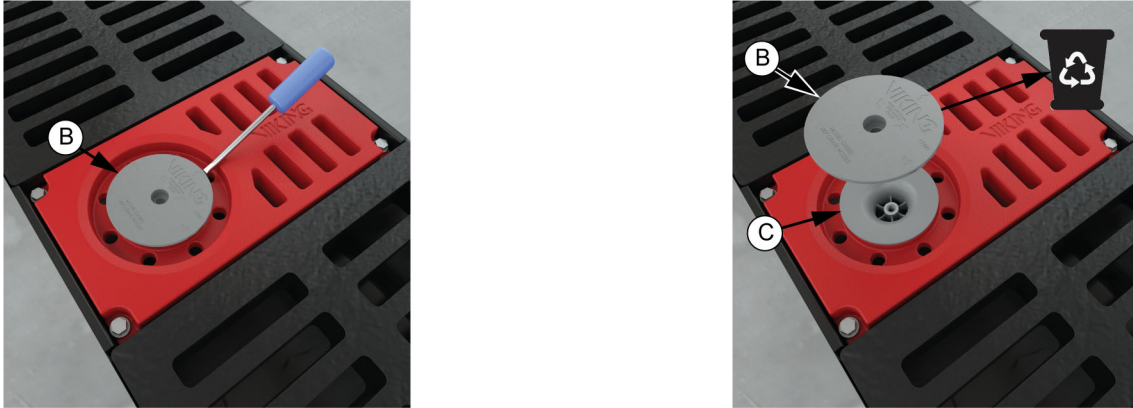


Figure – 4 Removing the Existing Nozzle Deflector

- Remove the existing PTFE washer (D). If necessary, use a tool to separate the PTFE washer (D) from the nozzle body (C).

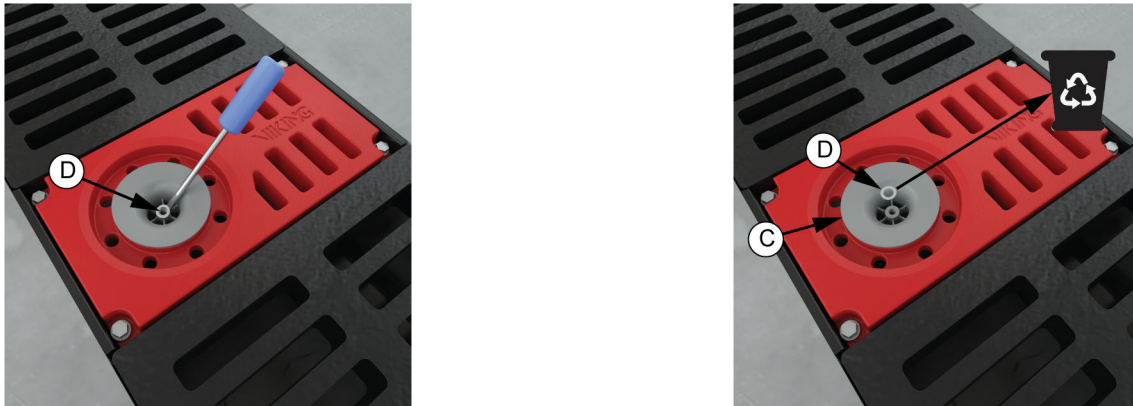


Figure – 5 Removing the Existing PTFE Washer

- Install a new PTFE washer (D) into the nozzle body (C).

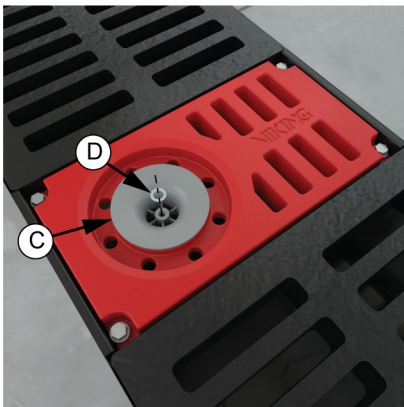


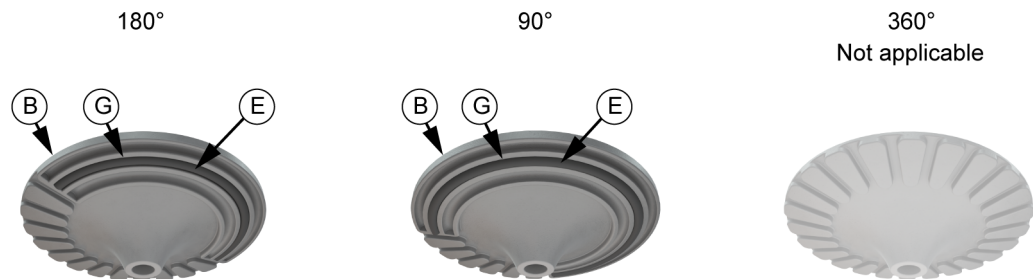
Figure – 6 Installing the New PTFE Washer



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7. Verify the gasket (E) is installed on the bottom of the new nozzle deflector (B). If the gasket is not installed as shown, press the gasket into the groove (G).



BOTTOM VIEW OF NOZZLE DEFLECTOR

Figure – 7 Nozzle Deflector Gasket

8. Verify the PTFE washer (D) is properly positioned in the center of the nozzle body (C) then, carefully place the new nozzle deflector (B) into the nozzle body (C).

**NOTE: Position the new nozzle deflector in the same orientation as the previous one.**

9. Install the new bolt (A). Use a 1/2" hex key to tighten the bolt.  
**Torque: 45 ft-lbs.**

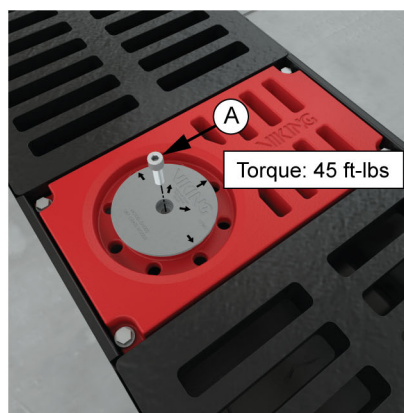
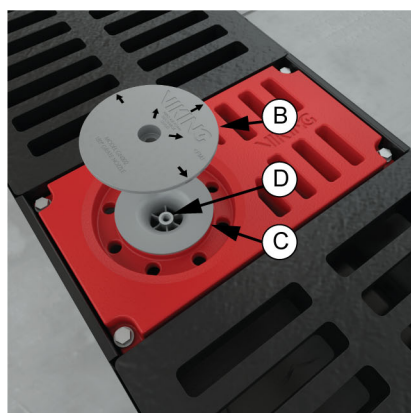


Figure – 8: Nozzle Deflector Replacement

## 5. CONTACT

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