

File Ex643
Project 03NK22423

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REPORT

on

SPRINKLERS, AUTOMATIC AND OPEN

Viking Corp
Hastings, MI

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GENERAL

INTRODUCTION:

This Report describes the investigation of automatic sprinklers intended to be installed in accordance with the National Fire Protection Association Standard For The Installation of Sprinkler Systems, NFPA 13, and the manufacturers installation instructions.

OBJECTIVE:

The objective of this investigation was to determine compliance of the automatic sprinklers with the Standard For Automatic Sprinklers For Fire Protection Service, UL 199, and to determine the suitability of the sprinklers when installed for storage protection referenced in the manufacturer's installation instructions.

PLAN:

The investigation consisted of conducting a product conformance evaluation and performance testing as described in UL 199 and as described in this Report.

DESCRIPTION

PRODUCT COVERED:

Automatic sprinklers incorporating frangible 5 mm glass bulbs manufactured by Job GmbH or Norbulb of the following models, types and temperature ratings:

Listing	Model	K-Factor	Response Type	Sprinkler Orientation	Sprinkler Type	Temperature Ratings, °F
USL, CNL	VK580	16.8	SR	Upright	Storage Protection Area/Density	155, 175, 200, 286

GENERAL:

The sprinkler consists of frame, deflector, cap assembly, frangible glass bulb heat responsive element, and releasing mechanism. These sprinklers are available in a brass finish.

CNL indicates Listing to Canadian National Standard ULC C199.

CONSTRUCTION DETAILS:

The devices have been examined and found to comply with the Standard For Automatic Sprinklers in effect as of the date of this Report.

USE:

The product covered by this Report is for use in light, ordinary, or extra-Hazard occupancies for hydraulically calculated wet or dry systems per NFPA 13 with a minimum operating pressure of 7 psi. Use the standard sprinkler positioning requirements and area/density sprinkler protection criteria provided in NFPA 13 and the manufacturers installation instructions (see Fig. 1).