



the standard in safety

Underwriters
Laboratories

File Ex643

Project 08NK21492

Project 09CA44059

Issued: April 27, 2009

Revised: February 11, 2010

REPORT

On

SPRINKLERS, AUTOMATIC AND OPEN

Viking Corp
Hastings, MI

Copyright © 2009 Underwriters Laboratories Inc.

Underwriters Laboratories Inc. authorizes the above named company to reproduce this Report provided it is reproduced in its entirety.

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 the Standard for Automatic Sprinklers for Fire Protection Service, ULC/ORD C199-03, and to determine the suitability of the sprinklers when installed as referenced in the manufacturer's installation instructions.

PLAN:

The investigation of the automatic sprinklers consisted of conducting a product conformance evaluation and performance testing as described in UL 199, 11th Edition and C199-03, 2nd Edition.

DESCRIPTION

PRODUCT COVERED:

Automatic sprinklers having fusible elements (link and lever type) consisting of the following models, types, and temperature ratings.

Listings	SIN	Response Type	Sprinkler Type	Nominal K-Factor	Temperature Rating, °F	
					Cover	Sprinkler
USL, CNL	VK469	QR	Concealed Pendent	11.2	135, 165	165
USL, CNL	VK469	QR	Concealed Pendent	11.2	165	205
USL, CNL	VK636	QR	Concealed Pendent - Extended Coverarge Light Hazard	11.2	135, 165	165
USL, CNL	VK636	QR	Concealed Pendent - Extended Coverarge Light Hazard	11.2	165	205

GENERAL:

The sprinkler consists of a body, deflector, deflector pins, fusible element, lever and lever bars, seat, button, compression screw and a Beryllium Nickel Belleville spring.

RATINGS:

Ceiling-type decorative sprinklers need not be color-coded.

MARKINGS:

Location Marking	
Wrench Head	"Viking".
Deflector	SIN, year of manufacturing, UL in circle symbol.
Cover Plate	"Do Not Paint"

FOR ENGINEERING CONSIDERATIONS ONLY:

CNL indicates Listing to Canadian National Standard ULC ORD-C199-03.

CONCLUSION

Samples of the products covered by this Report have been found to comply with the requirements covering the category and the products are found to comply with UL's applicable requirements. The description and test result in this Report are only applicable to the sample(s) investigated by UL and does not signify the product(s) described as being covered under UL's Follow-Up Service Program. When covered under UL's Follow-Up Service Program, the manufacturer is authorized to use the UL Listing Mark on such products which comply with UL's Follow-Up Service Procedure and any other application requirements of Underwriters Laboratories Inc. The Listing Mark of Underwriters Laboratories Inc. on the product, or the UL symbol on the product and the Listing Mark on the smallest unit container in which the product is packaged, is the only method to identify products investigated by UL to published requirements and manufactured under UL's Listing and Follow-Up Service.

This Report is intended solely for the use of UL and the Applicant for establishment of UL certification coverage of the product under UL's Follow-Up Service. Any use of the Report other than to indicate that the sample(s) of the product covered by the Report has been found to comply with UL's applicable requirements is not authorized and renders the Report null and void. UL shall not incur any obligation or liability for any loss, expense, or punitive damages, arising out of or in connection with the use or reliance upon the contents of this Report to anyone other than the Applicant as provided in the agreement between UL and Applicant. Any use or reference to UL's name or certification mark(s) by anyone other than the Applicant in accordance with the agreement is prohibited without the express written approval of UL. Any information and documentation involving UL Mark services are provided on behalf of Underwriters Laboratories Inc. (UL) or any authorized licensee of UL.

Report by:



Scott S. Dankert
Senior Engineering Associate

Reviewed by:



Michael G. McCormick
Engineering Associate Lead