

File Ex1412
Project 04NK15679

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REPORT

on

NOZZLES - SPRAY TYPE FIXED

Viking Corp.
Hastings, MI

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GENERAL

INTRODUCTION:

This Report describes the investigation of spray nozzles intended to be installed in accordance with the National Fire Protection Association Standard for Water Spray Fixed Systems, NFPA 15.

OBJECT:

The object of this investigation was to determine compliance of the spray nozzles with the Standard for Spray Nozzles for Fire Protection Service, UL 2351.

PLAN:

The investigation of the spray nozzles consisted of conducting a product conformance evaluation and performance testing as described in the First Edition of UL 2351.

DESCRIPTION

PRODUCT COVERED:

Model E, 3D open type spray nozzles designed for directional spray applications in fixed fire protection systems.

Listing	Model	SIN	Spray Angle, °	K-Factors
USL, CNL	E, 3D	VK810	65	1.2, 1.8, 2.3, 3.2, 4.1, 5.6, 7.2
		VK811	80	1.2, 1.8, 2.3, 3.2, 4.1, 5.6, 7.2
		VK812	95	1.2, 1.8, 2.3, 3.2, 4.1, 5.6, 7.2
		VK813	110	1.2, 1.8, 2.3, 3.2, 4.1, 5.6, 7.2
		VK814	125	1.2, 1.8, 2.3, 3.2, 4.1, 5.6, 7.2
		VK815	140	1.2, 1.8, 2.3, 3.2, 4.1, 5.6, 7.2
		VK816	160	1.2, 1.8, 2.3, 3.2, 4.1, 5.6, 7.2
		VK817	180	1.2, 1.8, 2.3, 3.2, 4.1, 5.6, 7.2

CONSTRUCTION DETAILS:

The devices have been examined and found to comply with the Standard for Spray Nozzles in effect as of the date of this Report.

USE:

The products covered by this Report are for use in accordance with the National Fire Protection Association Standard for Water Spray Fixed Systems, NFPA 15, and the manufacturer's installation instructions (see Fig. 1).

DESCRIPTION	TEST RECORD
Model VK810 to VK817 (65, 80, 95, 110, 125, 140, 160, and 180° Spray Angle) - (1.2, 1.8, 2.3, 3.2, 4.1, 5.6, 7.2 K-Factor) Open Type Spray Nozzles	1

CONCLUSION

Samples of the products covered by this Report have been found to comply with the requirements covering the category and the products are judged to be eligible for Listing and Follow-Up Service. The manufacturer is authorized to use the UL Mark on such products which comply with the Follow-Up Service Procedure and any other applicable requirements of Underwriters Laboratories Inc. Only those products which properly bear the UL Mark are considered as Listed by Underwriters Laboratories Inc.

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