



Certificate of Compliance

Automatic Control Mode Sprinklers for Fire Protection

This certificate is issued for the following equipment:

Model	K	Type	Resp.	Element	NPT (in.)	Finishes	Temperature Ratings °F (°C)
VK302	5.6	Pendent	QR	3mm	1/2	Brass, Chrome, Polyester	135°, 155°, 175°, 200°, 286°F (57°, 68°, 79°, 93°, 141°C)
VK302	5.6	Recessed Pendent	QR	3mm	1/2	Brass, Chrome, Polyester	135°, 155°, 175°, 200°F (57°, 68°, 79°, 93°C)

Manufactured by: The Viking Corporation, 210 N Industrial Park Road, Hastings, MI 49058, USA

Manufacturing Locations: The Viking Corporation, 210 N Industrial Park Road, Hastings, MI 49058, USA

The Viking Corporation, 11305 James Street, Holland, MI 49424

Viking SA, Zone Industrielle Haneboesch, Differdange Niedercorn, Luxembourg

FM Approvals confirms that the items have been found to comply with the following standard:

FM Approvals Standard 2000 (March 2006)

Project Identifier:

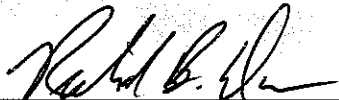
3036338

Date of Approval:

July 23, 2009



Member of the FM Global Group


Richard B. Dunne
Group Manager – Hydraulics

Date

August 3, 2009



Certificate of Compliance

Automatic Control Mode Sprinklers for Fire Protection

This certificate is issued for the following equipment:

Model	K	Type	Resp.	Element	NPT (in.)	Finishes	Temperature Ratings °F (°C)
VK302	5.6	Rack Storage Pendent	QR	3mm	1/2	Brass	135°, 155°, 175°, 200°, 286°F (57°, 68°, 79°, 93°, 141°C)

Manufactured by: The Viking Corporation, 210 N Industrial Park Road, Hastings, MI 49058, USA

Manufacturing Locations: The Viking Corporation, 210 N Industrial Park Road, Hastings, MI 49058, USA

The Viking Corporation, 11305 James Street, Holland, MI 49424

FM Approvals confirms that the items have been found to comply with the following standard:

FM Approvals Standard 2000 (March 2006)

Project Identifier:

3036338

Date of Approval:

July 23, 2009

A handwritten signature in black ink, appearing to read 'Richard B. Dunne'.

Richard B. Dunne
Group Manager – Hydraulics

August 3, 2009
Date



Member of the FM Global Group



Certificate of Compliance

Automatic Control Mode Sprinklers for Fire Protection

This certificate is issued for the following equipment:

Model	K	Type	Resp.	Element	NPT (in.)	Finishes	Temperature Ratings °F (°C)
VK302	5.6	Concealed Pendent	SR	3mm	1/2	Brass	155°, 175°, 200°F (68°, 79°, 93°C)

Manufactured by: The Viking Corporation, 210 N Industrial Park Road, Hastings, MI 49058, USA

Manufacturing Locations: The Viking Corporation, 210 N Industrial Park Road, Hastings, MI 49058, USA

FM Approvals confirms that the items have been found to comply with the following standard:

FM Approvals Standard 2000 (March 2006)

Project Identifier:

3036338

Date of Approval:

July 23, 2009

A handwritten signature in black ink, appearing to read 'Richard B. Dunne', is written over a horizontal line.

Richard B. Dunne
Group Manager – Hydraulics

August 3, 2009
Date



Member of the FM Global Group



NOT to be distributed outside of FMGlobal except by CUSTOMER.

APPROVAL REPORT

SAND CAST FRAME, BULB TYPE, PENDENT AND UPRIGHT, STANDARD AND QUICK RESPONSE AUTOMATIC SPRINKLERS (VARIOUS MODELS) WITH NOMINAL DISCHARGE COEFFICIENTS OF 2.8 AND 5.6 GAL/MIN/(PSI)^{1/2} IN PLAIN BRASS, CHROME, AND POLYESTER COATED FINISHES (MODIFICATION)

Prepared for:

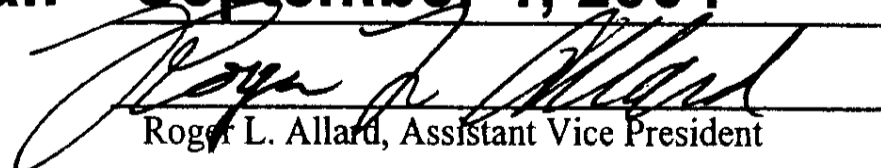
**The Viking Corporation
210 N. Industrial Park Rd.
Hastings, MI 49058**

Project ID: 3020603

Class: 2016

Date of Approval: September 1, 2004

Authorized by:


Roger L. Allard, Assistant Vice President

FM Approvals
1151 Boston-Providence Turnpike
P.O. Box 9102
Norwood, MA 02062



NOT to be distributed outside of FMGlobal except by CUSTOMER.

APPROVAL REPORT

**MODEL VK202 AND VK352
BULB TYPE CONTROL-MODE (DENSITY/AREA)
PENDENT AUTOMATIC SPRINKLERS WITH A
NOMINAL DISCHARGE COEFFICIENT OF 8.0
GAL/MIN/(PSI)^{1/2} WITH ALTERNATE PIPCAP
ASSEMBLIES**

Prepared for:


**The Viking Corporation
210 North Industrial Park Road
Hastings, MI 49058**

Project ID: 3018611

Class: 2001

Date of Approval: 19 April 2004

Authorized by:


Roger L. Allard, Group Manager - Hydraulics

FM Approvals
1151 Boston-Providence Turnpike
P.O. Box 9102
Norwood, MA 02062

NOT to be distributed outside of FMGlobal except by CUSTOMER.

APPROVAL REPORT

**MODEL VK100, VK102, VK200, VK202, VK300, VK302,
VK350 AND VK352, BULB TYPE
STANDARD AND QUICK RESPONSE
AUTOMATIC SPRINKLERS WITH A NOMINAL
DISCHARGE COEFFICIENT OF 5.6 AND 8.0
GAL/MIN/(PSI)^{1/2} (MODIFICATION)**

Prepared for:

**The Viking Corporation
210 N. Industrial Park Road
Hastings, Michigan 49058**

Project ID. 3007385

Class 2016

Date: 13 May 2002

NOT to be distributed outside of FMGlobal except by CUSTOMER.

APPROVAL REPORT

**MODEL VK102, VK202, VK302 AND VK352
BULB TYPE CONTROL-MODE (DENSITY/AREA)
PENDENT AND RECESSED PENDENT STANDARD
AND QUICK RESPONSE AUTOMATIC SPRINKLERS
WITH NOMINAL DISCHARGE COEFFICIENTS OF 5.6
AND K8.0 GAL/MIN/(PSI)^{1/2} WITH A NEW DEFLECTOR**

Prepared for:

**The Viking Corporation
210 North Industrial Park Road
Hastings, MI 49058**

**Project ID. 3008841
Class 2017
Date: 25 February 2002**

Factory Mutual Research Corporation
1151 Boston-Providence Turnpike
P.O. Box 9102
Norwood, MA 02062

NOT to be distributed outside of FMGlobal except by CUSTOMER.

APPROVAL REPORT

**MODEL VK003, VK102, VK202, VK302, VK352
BULB TYPE RECESSED PENDENT
AUTOMATIC SPRINKLERS WITH THE MODEL E-2
THREADED ADJUSTABLE ESCUTCHEON**

Prepared for:

**The Viking Corporation
210 North Industrial Park Road
Hastings, MI 49058**

**Project ID. 3012247
Class 2015
Date: 18 December 2001**

Factory Mutual Research Corporation
1151 Boston-Providence Turnpike
P.O. Box 9102
Norwood, MA 02062

1151 Boston-Providence Turnpike
P.O. Box 9102
Norwood, MA 02062 USA
T: (781) 762-4300 F: (781) 762-9375

APPROVAL AGREEMENT

The Agreement is made by and between Factory Mutual Research Corporation (herein called Factory Mutual Research)

and **The Viking Corporation, Hastings, MI 49058**

(herein called the Client). The Client is making a product or providing a service known and described as:

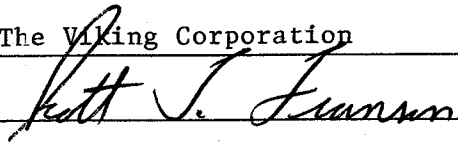
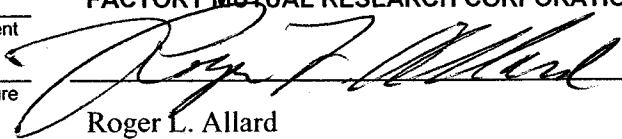
**MODEL VK300, VK302, VK304, VK306, VK325, VK329,
VK350, VK352, VK556, VK566, VK600 AND VK602
BULB TYPE AUTOMATIC SPRINKLERS WITH
NOMINAL DISCHARGE COEFFICIENTS OF 2.8, 5.6
AND 8.0 GAL/MIN/(PSI)^{1/2} WITH ALTERNATE 3 mm
BULB**

This product or service has been examined by Factory Mutual Research as described in a report bearing

Job Identification **3004444**, dated **13 June 2002**.

In consideration of Factory Mutual Research Approval of the product or service, the Client is authorized to indicate such Approval, as stated by the above report, and agrees to the following and terms stated on the reverse side of this Agreement:

1. The Client shall place a unique identification mark (i.e. model or type number) on the product as stated in the above report and shall not place this mark on any other product unless covered by a separate Agreement with Factory Mutual Research.
2. The Client shall use the Factory Mutual Research Approval Mark on the product, but shall not use this mark on any other product unless such other product is covered by separate Agreement with Factory Mutual Research.
3. The Client shall not use, reproduce or distribute the above referenced report by Factory Mutual Research except in its entirety without any change, deletion or addition thereto. The Client agrees that Factory Mutual Research may distribute the referenced report and related information within FM Global. *(See Over)*

The Viking Corporation	FACTORY MUTUAL RESEARCH CORPORATION
	
Client	Signature
Scott T. Franson	Roger L. Allard
Name	Name
Director, Sprinkler Division	Group Manager - Hydraulics
Title	Title
210 N. Industrial Park Rd	June 21, 2002
Hastings MI 49058	Date
Address	Date
July 2, 2002	
Date	

1151 Boston-Providence Turnpike
 P.O. Box 9102 Norwood, MA 02062 USA
 T: 781 762 4300 F: 781 762 9375 www.fmglobal.com

APPROVAL AGREEMENT

The Agreement is made by and between Factory Mutual Research Corporation (herein called Factory Mutual Research) and **The Viking Corporation, Hastings, MI 49058**

(herein called the Client). The Client is making a product or providing a service known and described as:

**VIKING MODEL VK202, VK206 AND VK352
 CONTROL-MODE (DENSITY/AREA) PENDENT
 AUTOMATIC SPRINKLERS WITH A NOMINAL
 DISCHARGE COEFFICIENT OF 8.0 GAL/MIN/(PSI)^{1/2}
 (MODIFICATION)**

This product or service has been examined by Factory Mutual Research as described in a report bearing

Job Identification **3009236** dated **December 27, 2000.**

In consideration of Factory Mutual Research Approval of the product or service, the Client is authorized to indicate such Approval, as stated by the above report, and agrees to the following and terms stated on the reverse side of this Agreement:

1. The Client shall place a unique identification mark (i.e. model or type number) on the product as stated in the above report and shall not place this mark on any other product unless covered by a separate Agreement with Factory Mutual Research.
2. The Client shall use the Factory Mutual Research Approval Mark on the product, but shall not use this mark on any other product unless such other product is covered by separate Agreement with Factory Mutual Research.
3. The Client shall not use, reproduce or distribute the above referenced report by Factory Mutual Research except in its entirety without any change, deletion or addition thereto. The Client agrees that Factory Mutual Research may distribute the referenced report and related information within FM Global.

The Viking Corporation Client
Scott Franson Signature
Scott T. Franson Name
Director, Sprinkler Division
210 N. Industrial Park Rd Title
Hastings MI 49058 Address
January 23, 2001 Date

FACTORY MUTUAL RESEARCH CORPORATION
R.L. Martell Signature
R.L. Martell Name
Asst. V.P. – Approvals Division Title
January 10, 2001 Date

1151 Boston-Providence Turnpike
 P.O. Box 9102
 Norwood, MA 02062 USA
 T: (781) 762-4300 F: (781) 762-9375

APPROVAL AGREEMENT

The Agreement is made by and between Factory Mutual Research Corporation (herein called Factory Mutual Research) and **The Viking Corporation, Hastings, MI 49058**

(herein called the Client). The Client is making a product or providing a service known and described as:

**MODELS VK100, VK102, VK108, VK110, VK300, VK302, VK550 AND VK556
 BULB AND FUSIBLE TYPE
 CONTROL-MODEL (DENSITY/AREA)
 UPRIGHT, PENDENT, RECESSED PENDENT, AND RACK STORAGE UPRIGHT
 STANDARD AND QUICK RESPONSE
 AUTOMATIC SPRINKLERS WITH
 A NOMINAL DISCHARGE COEFFICIENT OF 5.6 GAL/MIN/(PSD)^{1/2}
 (MODIFICATION)**

This product or service has been examined by Factory Mutual Research as described in a report bearing Job Identification **3008096** dated **October 13, 2000.**

In consideration of Factory Mutual Research Approval of the product or service, the Client is authorized to indicate such Approval, as stated by the above report, and agrees to the following and terms stated on the reverse side of this Agreement:

1. The Client shall place a unique identification mark (i.e. model or type number) on the product as stated in the above report and shall not place this mark on any other product unless covered by a separate Agreement with Factory Mutual Research.
2. The Client shall use the Factory Mutual Research Approval Mark on the product, but shall not use this mark on any other product unless such other product is covered by separate Agreement with Factory Mutual Research.
3. The Client shall not use, reproduce or distribute the above referenced report by Factory Mutual Research except in its entirety without any change, deletion or addition thereto. The Client agrees that Factory Mutual Research may distribute the referenced report and related information within FM Global.

 Client
Scott J. Franzen
 Signature

 Name

 Title

 Address
November 17, 2000
 Date

FACTORY MUTUAL RESEARCH CORPORATION

 Signature
R.L. Martell
 Name
Asst. V.P. – Approvals Division
 Title
November 10, 2000
 Date

FACTORY MUTUAL



Factory Mutual Research Corporation
Hydraulics Laboratory
743A Reynolds Road
West Glocester, Rhode Island 02814
Telephone (401) 567-0590
Fax (401) 567-0599

APPROVAL AGREEMENT

The Agreement is made by and between Factory Mutual Research Corporation, (herein called FMRC), and **Viking Corporation, Hastings, MI 49058** (herein called the Client). The Client is making a product or providing a service known and described as:

**THE VIKING CORPORATION
MODEL M
BULB-TYPE STANDARD AND LARGE ORIFICE
RECESSED QUICK RESPONSE AUTOMATIC SPRINKLERS
IN NOMINAL TEMPERATURE RATINGS OF
135, 155, 175, AND 200°F (57, 68, 79 AND 93°C)**

This product or service has been examined by FMRC as described in the report bearing Job Identification **1Z2A9.AH** dated, **February 20, 1997** in consideration of FMRC Approval of the product or service the Client authorized to indicate such approval, as stated by the above report, and agrees to the following and terms stated on the reverse side of this Agreement:

1. The Client shall place a unique identification mark (i.e. model or type number) on the product as stated in the above report and shall not place this mark on any other product unless covered by separate agreement with FMRC.
2. The Client shall use the FMRC Approval mark on the product, but shall not use this mark on any other product unless such other product is covered by separate agreement with FMRC.
3. The Client shall not use, reproduce or distribute the above referenced report by FMRC except in its entirety without any change, deletion or addition thereto. The Client agrees that FMRC may distribute the referenced report and related information within the Factory Mutual System.

(SEE OVER)

The Viking Corporation
 _____ Client
Scott T. Franson Signature
 Scott T. Franson Name

 Design & Development Manager Title
 210 N. Industrial Park Road
 Hastings, MI 49058 Address
 March 26, 1997 Date

FACTORY MUTUAL RESEARCH CORPORATION

R.L. Martell Signature
 R.L. Martell Name

 Asst. V.P. - Approvals Division Title

 March 10, 1997 Date



Factory Mutual Research

Hydraulics Laboratory
743A Reynolds Road
West Glocester, Rhode Island 02814
Telephone (401) 567-0590
Fax (401) 567-0599

APPROVAL AGREEMENT

The Agreement is made by and between Factory Mutual Research Corporation, (herein called FMRC), and **The Viking Corporation, Hastings, Michigan 49058** (herein called the Client). The Client is making a product or providing a service known and described as:

MODEL M
QUICK RESPONSE BULB TYPE, 1/2 IN. NOMINAL ORIFICE, SAND
CAST FRAME, STANDARD PENDENT AUTOMATIC SPRINKLER,
FINISHES OF PLAIN BRASS OR CHROMIUM PLATED
TEMPERATURE RATINGS OF 135, 155, 175, 200 AND 286°F
(57, 68, 79, 93 AND 141°C)
FOR USE IN AUTOMATIC SPRINKLER FIRE PROTECTION SYSTEMS

This product or service has been examined by FMRC as described in the report bearing Job Identification **0R4A9.AH** dated, **October 27, 1993** In consideration of FMRC Approval of the product or service the Client authorized to indicate such approval, as stated by the above report, and agrees to the following and terms stated on the reverse side of this Agreement:

1. The Client shall place a unique identification mark (i.e. model or type number) on the product as stated in the above report and shall not place this mark on any other product unless covered by separate agreement with FMRC.
2. The Client shall use the FMRC Approval mark on the product, but shall not use this mark on any other product unless such other product is covered by separate agreement with FMRC.
3. The Client shall not use, reproduce or distribute the above referenced report by FMRC except in its entirety without any change, deletion or addition thereto. The Client agrees that FMRC may distribute the referenced report and related information within the Factory Mutual System. (SEE OVER)

The Viking Corporation
 _____ Client
Peter W. Thomas _____ Signature
 Peter W. Thomas _____ Name
 Director, R & D _____ Title
 210 N. Industrial Park Road _____ Title
 Hastings, MI 49058 _____ Address
 _____ Date
 November 24, 1993 _____ Date

FACTORY MUTUAL RESEARCH CORPORATION
 _____ Signature
R. L. Martell _____ Signature
 R. L. Martell _____ Name
 Asst. V.P. - Approvals Division _____ Title
 _____ Date
 November 18, 1993 _____ Date