



*Not to be distributed outside of FM Approvals and its affiliates except by Customer*

# APPROVAL REPORT

**AUTOMATIC WATER CONTROL VALVES  
MODELS F-1, F-2, J-1 and J-2  
SIZE 2½ INCH NPS**

**Prepared for:**

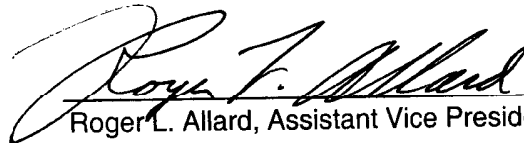
**The Viking Corporation  
210 North Industrial Park Road  
Hastings, MI 49058**

**Project ID: 3022001**

**Class: 1011/1012, 1013, 1016, 1020**

**Date: February 28, 2005**

**Authorized by:**

  
Roger L. Allard, Assistant Vice President



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



FM APPROVALS  
3022001

**IX CONCLUSION**

The 2½ inch NPS Models F-1, F-2, J-1 and J-2 automatic water control valves discussed in this report, manufactured by Viking Corporation in the aforementioned facility, meet FM Approval requirements. Since a duly signed Master Agreement is on file for the Viking Corporation, Approval is effective the date of this Report.

<b>EXAMINATION BY:</b>	<b>David M. Finnegan</b>
<b>EXTERNAL TESTING BY:</b>	<b>Viking Corporation personnel</b>
<b>EXTERNAL TESTING WITNESSED BY:</b>	<b>David M. Finnegan</b>
<b>INTERNAL TESTING BY:</b>	<b>John W. Normington</b>
<b>ORIGINAL TEST DATA:</b>	<b>Project Data Record J.I. 3022001</b>
<b>ATTACHMENTS:</b>	<b>Manufacturer's Drawing Nos: 12399, 12400, 12823, 12824, 12825, 12826, 13120, 10524, 11113, 11024, 11114 and Appendices I and II</b>
<b>REPORT BY:</b>	<b>REVIEWED BY:</b>
 <b>David M. Finnegan</b> <b>Senior Engineer – Hydraulics</b>	 <b>Stanley M. Ziobro</b> <b>Technical Team Manager – Hydraulics</b>



Not to be distributed outside of FM Approvals and its affiliates except by Customer

# APPROVAL REPORT

**AUTOMATIC WATER CONTROL VALVES  
MODELS F-1, F-2, J-1 and J-2  
SIZE 3 inch NPS**

**Prepared for:**

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

**Project ID: 3017826  
Class: 1011/1012, 1013, 1016, 1020  
Date: September 9, 2003**

**Authorized by:**   
Robert L. Martell Jr., Assistant Vice-President

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



Not to be distributed outside of FM Approvals and its affiliates except by Customer

# APPROVAL REPORT

## AUTOMATIC WATER CONTROL VALVES MODELS F-1, F-2, J-1 and J-2 SIZES 4 AND 6 inch NPS

**Prepared for:**

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

**Project ID: 3012863**

**Class: 1011/1012, 1013, 1016, 1020**

**Date: April 18, 2003**

**Authorized by:**

A handwritten signature in black ink, appearing to read "Roger L. Allard", written over a horizontal line.

Roger L. Allard, Group Manager - Hydraulics

FM Approvals  
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 **Viking Corporation, Hastings, MI 49058**

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

**AUTOMATIC WATER CONTROL VALVES  
 MODELS F-1, F-2, J-1 and J-2  
 SIZE 8 inch NPS**

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

Job Identification **3005859** dated **June 5, 2001.**

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 CORP. Client  
Eldon D Jackson Signature  
ELDON D. JACKSON Name  
DIR, PRODUCT DEV, VALVES & SYS, Title  
HASTINGS MI 49058 Address  
6/25/01 Date

**FACTORY MUTUAL RESEARCH CORPORATION**  
R.L. Martell Signature  
R.L. Martell Name  
Asst. V.P. - Approvals Division Title  
6-13-01 Date