### General Notes:

- Valve must be trimmed as shown. Any deviation from trim size or arrangement may affect the proper operation of the valve.
- All pipe 3/4” (20 mm) and smaller shall be galvanized steel except when other materials are specified in the Technical Data for the Halar® Coated Deluge Valve or when other materials are specified on the Viking website.
- When Model F Deluge Valves are used on pre-mixed Foam Systems, trim piping must be of copper pipe with brass fittings unless otherwise specified in the Technical Data for the Halar® Coated Deluge Valve or on the Viking website.
- Dimensions in parentheses are millimeter and may be approximations.

**Note 1:** 1/2” (15 mm) NPT plugged outlet provided for connecting certain optional components and associated trim.

**Note 2:** Release System connection. Viking Deluge and Flow Control Valves are compatible with hydraulic, pneumatic, and electric release systems. A Pneumatic Actuator is required on all Viking Deluge Valves and Flow Control Valves equipped with Pneumatic Release Systems.

**Note 3:** Alarm Connections: Connect alarm line piping to 3/4” (20 mm) NPT outlet. When using a Water Motor Alarm, a strainer is required. 1/2” (15 mm) NPT outlet is for electric Alarm Pressure Switch.

**Note 4:** Optional non-interruptible connection for Alarm Pressure Switch to activate electric alarm panel. Note: After the Deluge Valve trips, this location cannot be shut off. Alarms may operate until the outlet chamber of the deluge valve is de-pressurized below the set point of the Alarm Pressure Switch.

**Note 5:** Viking Drain Check Valve is manufactured with a 0.067” (1.7 mm) orifice to allow alarm line to drain. DO NOT substitute. Check Figure 2 for proper orientation.

**Note 6:** Inlet side of PORV is connected to the top chamber of the deluge valve. Inlet of PORV should be facing up. Outlet goes to open drain.

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### Trim Chart for Use with the Following Viking Trim Sets

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>8&quot; (DN200)</td>
<td>14640-1 Figure 2</td>
<td>14640-1USA Figure 3</td>
<td>14640-2 Figure 2</td>
</tr>
</tbody>
</table>

This Trim Chart is for use with the following Release Module Trim Kits

<table>
<thead>
<tr>
<th>Release Type</th>
<th>Galvanized*</th>
<th>Brass**</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pneumatic</td>
<td>10809</td>
<td>10811</td>
</tr>
<tr>
<td>Electric</td>
<td>10830</td>
<td>10832</td>
</tr>
<tr>
<td>Electric/Pneumatic</td>
<td>12661-1</td>
<td>12661-2</td>
</tr>
<tr>
<td>Pneumatic/Pneumatic</td>
<td>12662-1</td>
<td>12662-2</td>
</tr>
</tbody>
</table>

* Standard Trim sets for Model F Deluge Valves consist of galvanized nipples and fittings.

**Refer to Technical Data describing the Halar® Coated Deluge Valve and the Viking Website for applications where brass trim is recommended.

**Note:** Nipple lengths for brass trim may vary from those shown on this Trim Chart.

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**Notes:** For use with Trim Chart on Pages 2 and 3

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Form No. F_051302 Rev 01 September 2023

Replaces Form No. F_051302 Rev 18.P65

(Added alternate trim configuration.)
Refer to page 241a for General Notes and Notes 1 through 6.
TECHNICAL DATA

6" (DN150) MODEL F-1 STRAIGHT THROUGH DELUGE VALVE
HORIZONTAL CONVENTIONAL TRIM CHART

The Viking Corporation, 210 N Industrial Park Drive, Hastings MI 49058
Telephone: 269-945-9501 Technical Services: 877-384-5464 Fax: 269-818-1680 Email: techsvcs@vikingcorp.com

Figure 3

Refer to page 1 for General Notes and Notes 1 through 6.

Order Deluge Valve Separately

Refer to page 1 for General Notes and Notes 1 through 6.
Figure 4: Installation Dimensions - Front View
Figure 5: Installation Dimensions - Side View