April 17, 2009 Flow Control Trim 514a



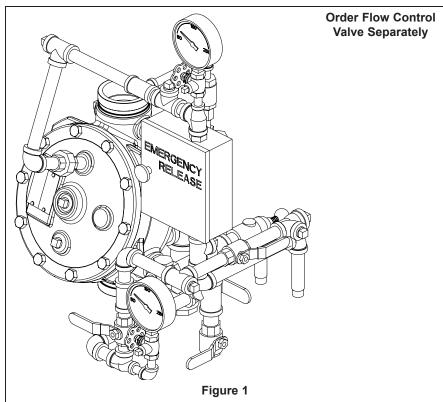
## **TECHNICAL DATA**

2-1/2" & 3" (DN65 & DN80)
MODEL J FLOW CONTROL VALVE
VERTICAL CONV. TRIM CHART

Maximum 250 PSI Water Working Pressure

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



| This Trim Chart is for use with the following Viking Trim Sets |                             |                        |
|--|-----------------------------|------------------------|
| Valve Size   | Galvanized<br>Trim Part No. | Brass Trim<br>Part No. |
| 2-1/2" (DN65) &<br>3" (DN80)                                   | 12306-1                     | 12306-2                |

Notes: For use with Trim Chart on Page 514b

### **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 and fittings shall be galvanized or brass except when other materials are specified in the Technical Data for the Halar<sup>®</sup>
  Coated Flow Control Valve or when other materials are specified in the Viking Foam Systems data pages.
- Gauges are brass as furnished with trim.
- When the Viking Flow Control Valve is 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 Flow Control Valve or the Viking Foam Systems data pages.
- · 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 flow control valve trips, this location cannot be shut off. Alarms may operate until the outlet chamber of the flow control valve is de-pressurized below the set point of the alarm pressure switch.

Flow Control Trim 514b April 17, 2009



### **TECHNICAL DATA**

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Refer to page 514a for General Notes 1/2" Pipe Plug and Notes 1 through 4. **(** 1/2" × 6-1/2" (165,1) 1/4" Elbow 1/4" × 5" (127) 1/4" × 1-1/2" (38,1) 1/2" x 8" (203,2) 1/4" Check Valve Water Pressure Gauge 1/2" × 1-1/2" \_\_(38,1) To Release 1/8" Restricted Orifice System
e Note 2)
1/2" Pipe **9** Plug \* × 1-1/2\* (38,1) 1/2" × 1-1/2" (38,1) 1/2° Union 1/2" × 1/2" × 1/4" Tee Side Outlet 1/2" × 1-1/2 (38,1) Strainer \* × 1-1/2\* (38,1) 1/2" Tee 1/4" × 1-1/2" (38,1) 1/2" × 1-1/ (38,1) 1/2" × 1/4" × 1/2" Tee 1/4" Ball Valve 1/4" × 1-1/2" (38,1) Emergency Release 1/4" Union 1/2" × 1-1/2 (38,1) 1/2" Pipe 1/2" Elbow 1/2**\*** Tee  $\mathfrak{D}$ 1/2" × 1-1/2" (38,1) 1/2" × 4" (101,6) 1/2° x 1/2**"** Elbow (152,4) 1/2" Pipe Drip Check Valve 1/2" Elbow (See Note 1) 1/2" Pipe 3/4" × 2" (50,8) 18 🌘 ᢙ /2" × 4" (101,6) /4" × 2" (50,8) 3/4" Pipe 3/4" Pipe Plug 🚫 Plug Drain Check 3/4" × 1/2" 1/2" Tee — Alarm 1/2" x 2" (50,8) 1/2" Pip Plug Pipe (Q 1/2' Pipe (7) Plug 1/2" x 2-1/2" (63,5) **6** 1/2\* Pipe 1/2" Ball Valve (101.6) 1/2" × 4" (101,6) ection for Optional Electric Alarm (See Note 4) 1/2" x (101,6) **6** 1/2° × 2 (50,8) 1/2" × 2" (50,8) 1/2" Tee S) 1/2" Pipe Plug 1-1/4" Elbow (228,6) 1/2" Ball Ø) -1/4" x 3" (76,2) 1-1/4" × 3" (76,2) 3/4" x (50,8) 1/2" x (50,8) 1-1/4" Ball Valve 3/4" x 2" (50,8) Side Outlet 3/4" Ball ′ × 1-1/2**′** (38,1) 1/4" × 1-1/2" (38,1) **Order Flow Control** Valve Separately

Figure 2

April 17, 2009 Flow Control Trim 514c



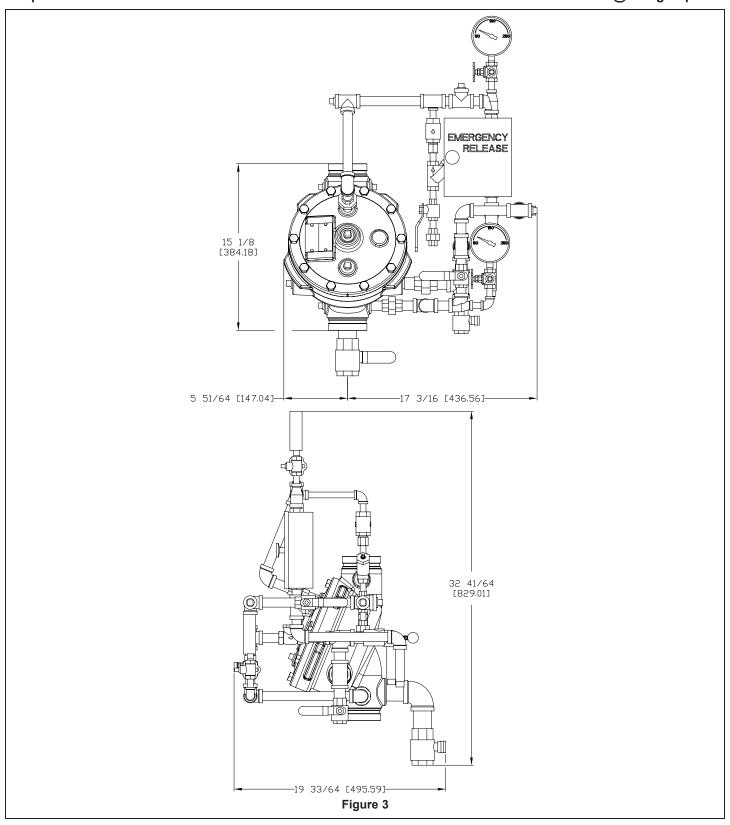
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