



TECHNICAL DATA

3", 4", & 6" (DN80, DN100, & DN150)
MODEL E DELUGE VALVE
CONVENTIONAL 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

Order Deluge Valve Separately

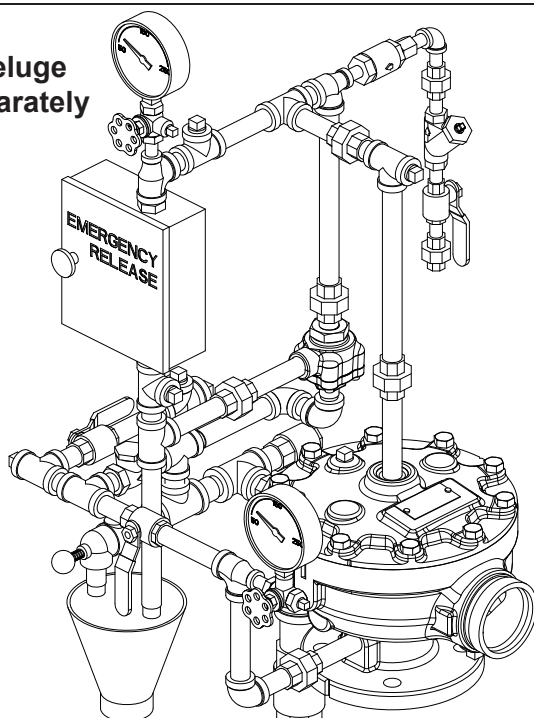


Figure 1



WARNING: Cancer and Reproductive Harm-
www.P65Warnings.ca.gov

This Trim Chart is for use with the following Viking Trim Sets

Valve Size	Galvanized Trim Part No.	Brass Trim Part No.
3" (DN80)	14631-1	14631-2
4" (DN100)	14632-1	14632-2
6" (DN150)	14633-1	14633-2

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

Release Type	Galvanized*	Brass**
Electric	10830	10832
Pneumatic	10809	10811
Electric/ Pneumatic	12661-1	12661-2
Pneumatic/ Pneumatic	12662-1	12662-2

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

**Refer to Technical Data describing the Halar® Coated Deluge Valve and the *Viking Foam Systems Engineering Design Data* book for applications where brass trim is recommended.

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

Notes: For use with Trim Charts on Pages 227b - d

Note: When viewing this data page online, [blue text](#) represents hyperlinks and will open the appropriate data page when clicked.

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 in the *Viking Foam Systems Engineering and Design Data* book.
- When Model E Deluge Valves are used on pre-mixed Foam Systems, trim piping must be of black steel pipe with cast iron or malleable iron fittings unless otherwise specified in the Technical Data for the Halar® Coated Deluge Valve or the *Viking Foam Systems Engineering and Design Data* book.
- 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 label 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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**Refer to page 227a
for General Notes and
Notes 1 through 6.**

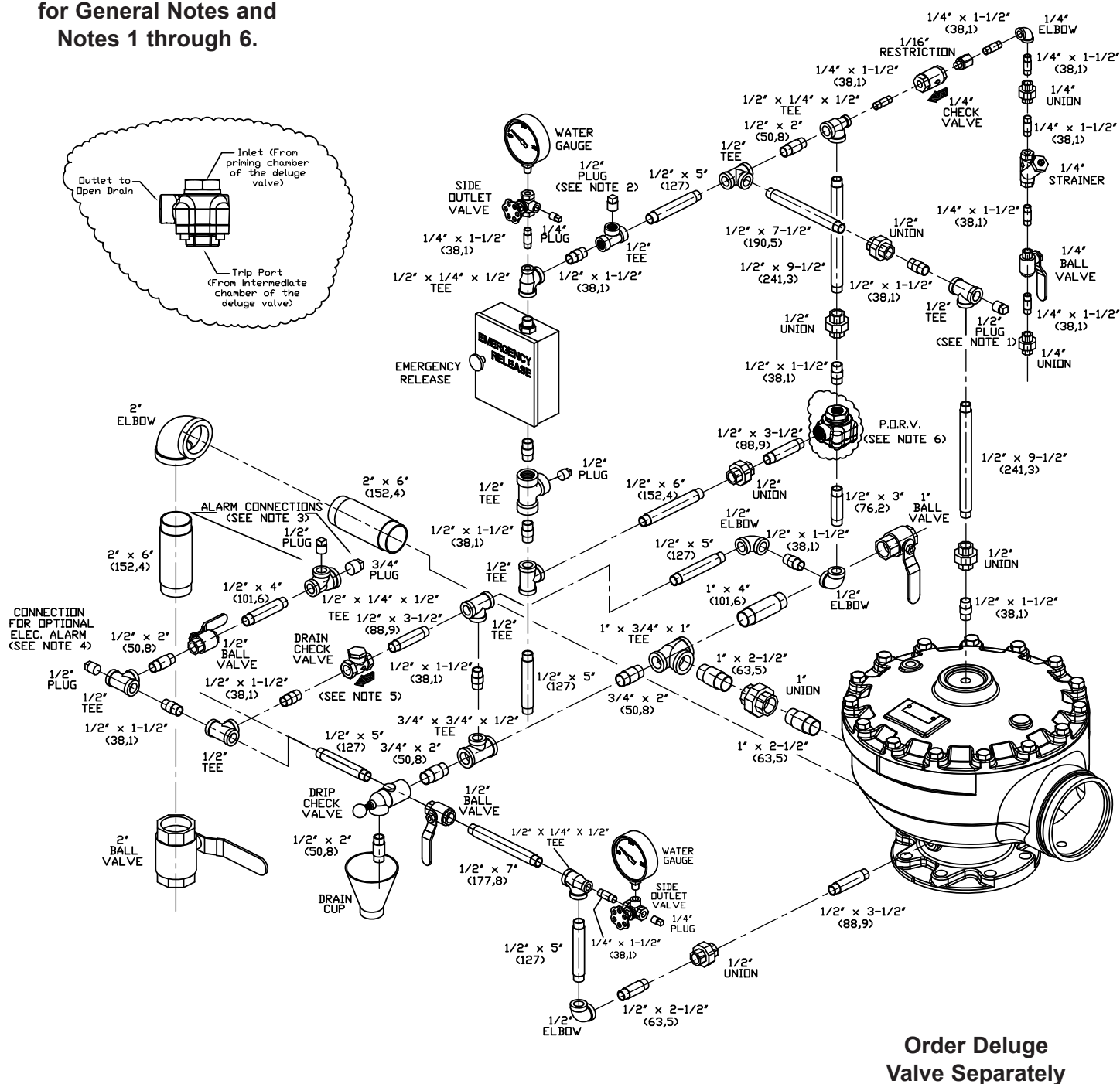


Figure 4
6" Deluge Valve Trim

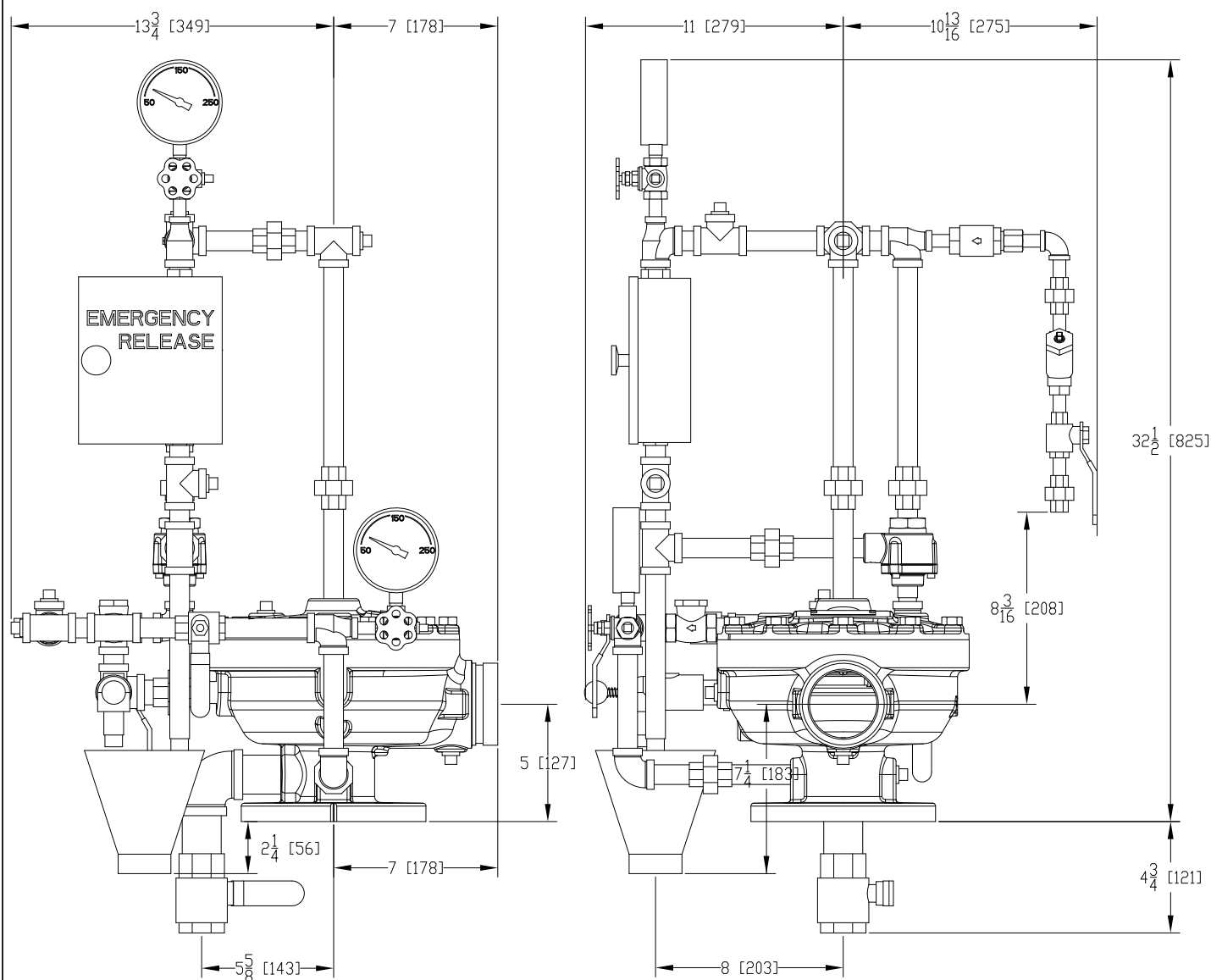


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Assembled trim dimensions are approximations
 with a tolerance of $\pm 1/4"$.

Figure 5a: Installation Dimensions - 3" (DN80) Valve

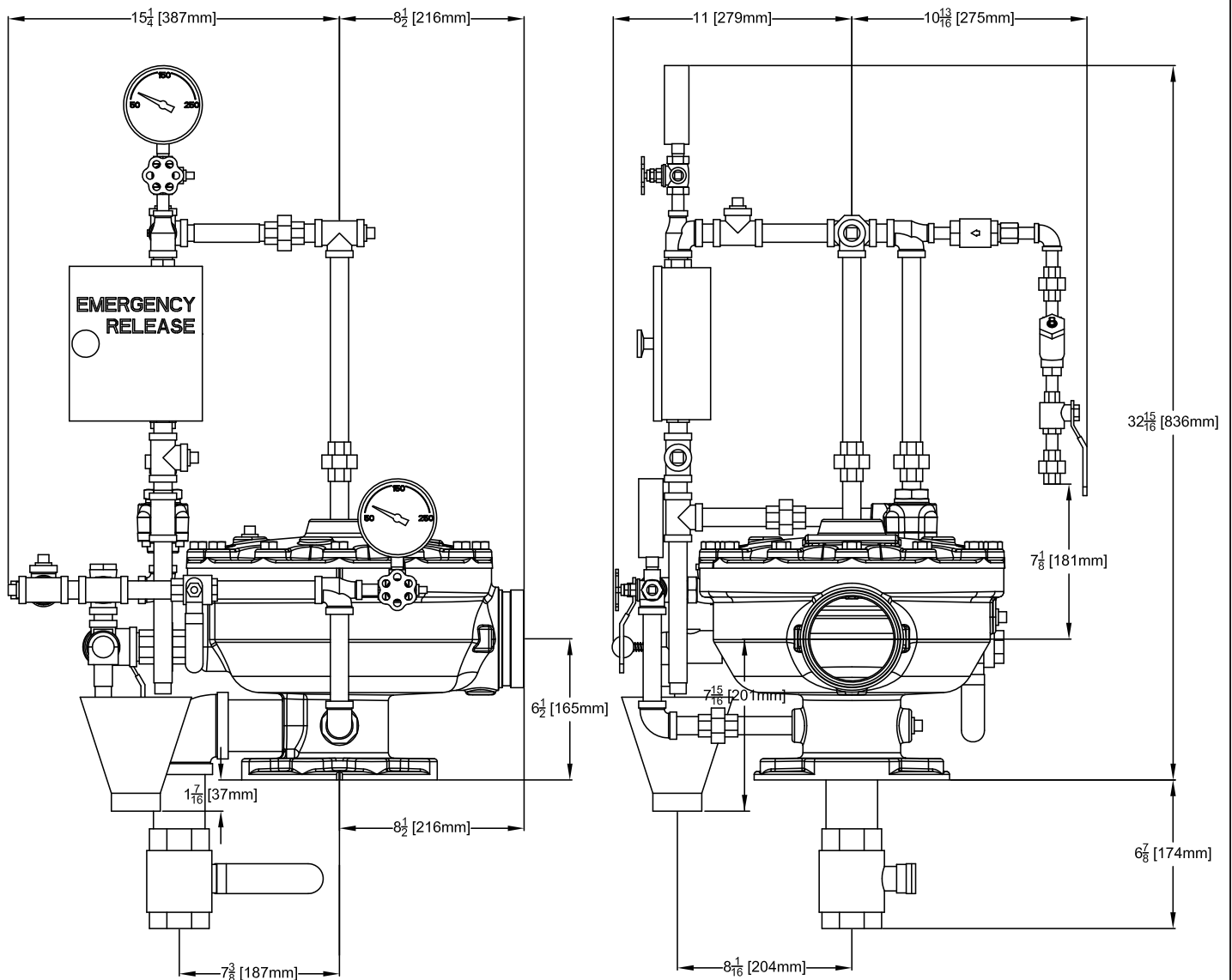


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Assembled trim dimensions are approximations
 with a tolerance of +/- 1/4".

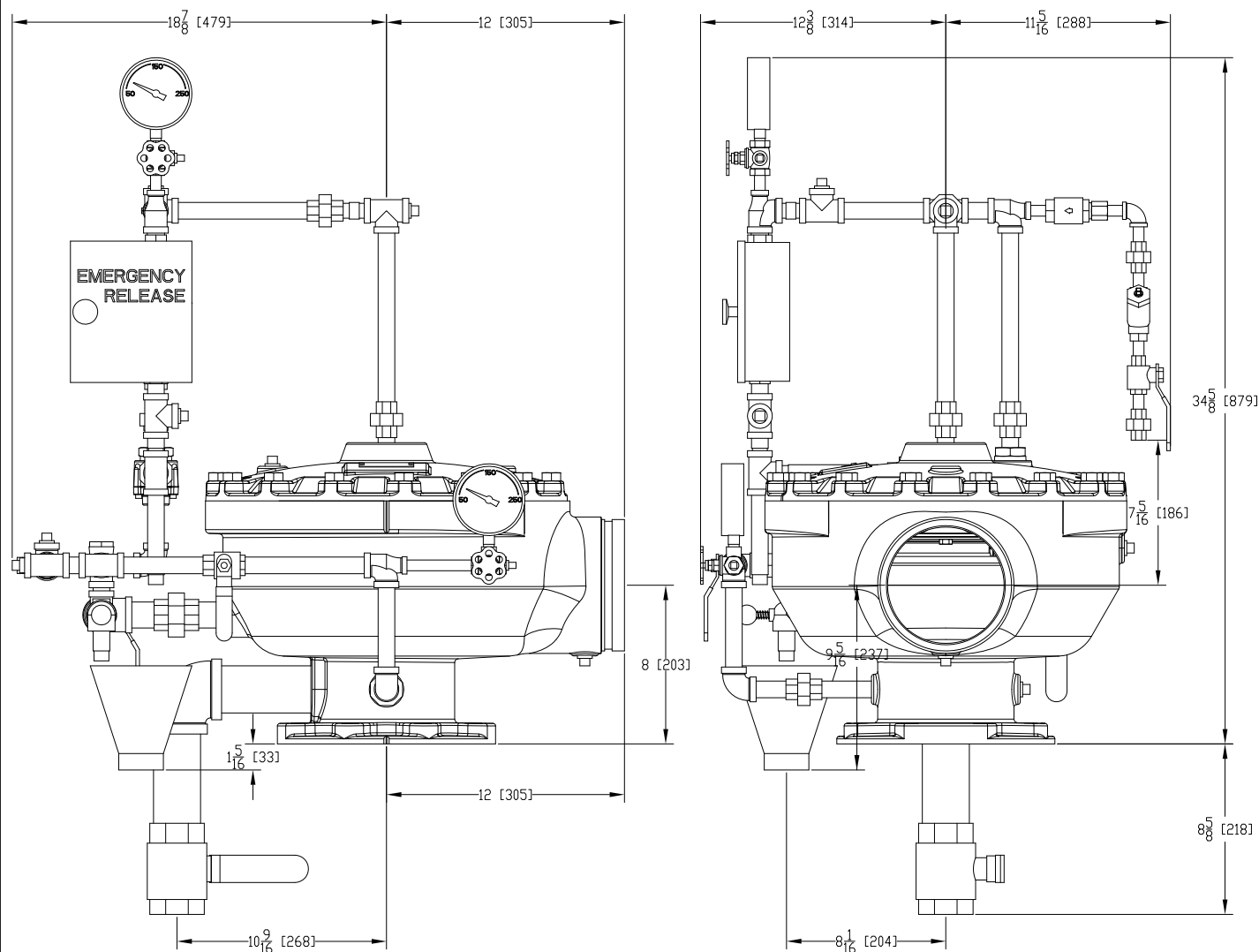
Figure 5b: Installation Dimensions - 4" (DN100) Valve



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Assembled trim dimensions are approximations
 with a tolerance of $\pm 1/4"$.

Figure 5c: Installation Dimensions - 6" (DN150) Valve