

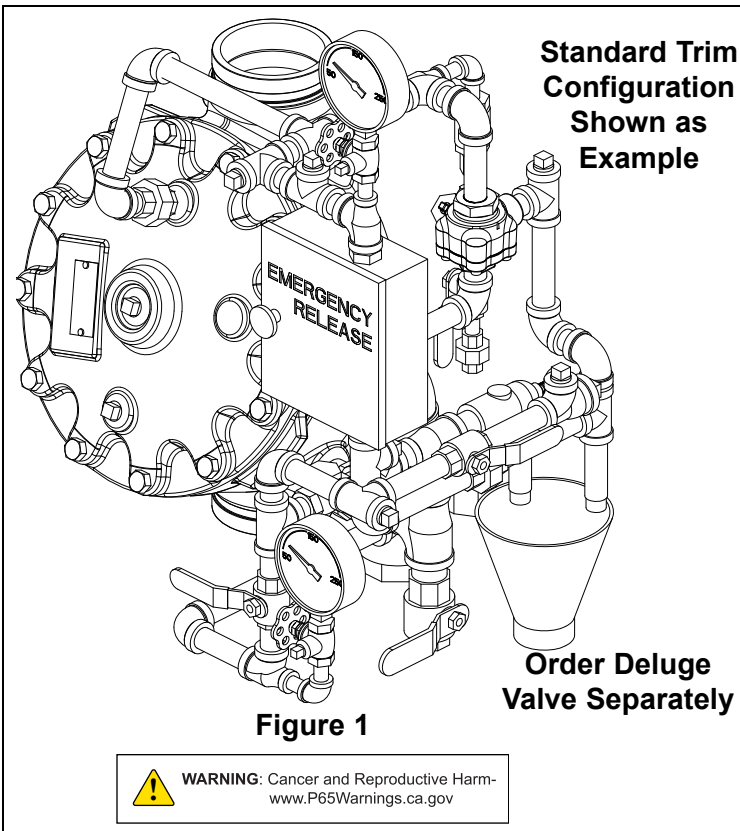


TECHNICAL DATA

4" (DN100) MODEL F-1 STRAIGHT THROUGH DELUGE VALVE VERTICAL CONVENTIONAL TRIM CHART Maximum 250 PSI WWP

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



Standard Trim Configuration Shown as Example

Figure 1

Order Deluge Valve Separately

This Trim Chart is for use with the following Viking Trim Sets			
Valve Size	Galvanized Trim Part No.	U.S. ONLY (galvanized)	Brass Trim Part No.
4" (DN100)	14639-1 Figure 2	14639-1USA Figure 3	14639-2 Figure 2
This Trim is for use with the following Release Module Trim Kits			
Release Type	Galvanized*	Brass**	
Pneumatic	10809	10811	
Electric	10830	10832	
Electric/ Pneumatic	12661-1	12661-2	
Pneumatic/ Pneumatic	12662-1	12662-2	
<p>* 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.</p>			

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

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.



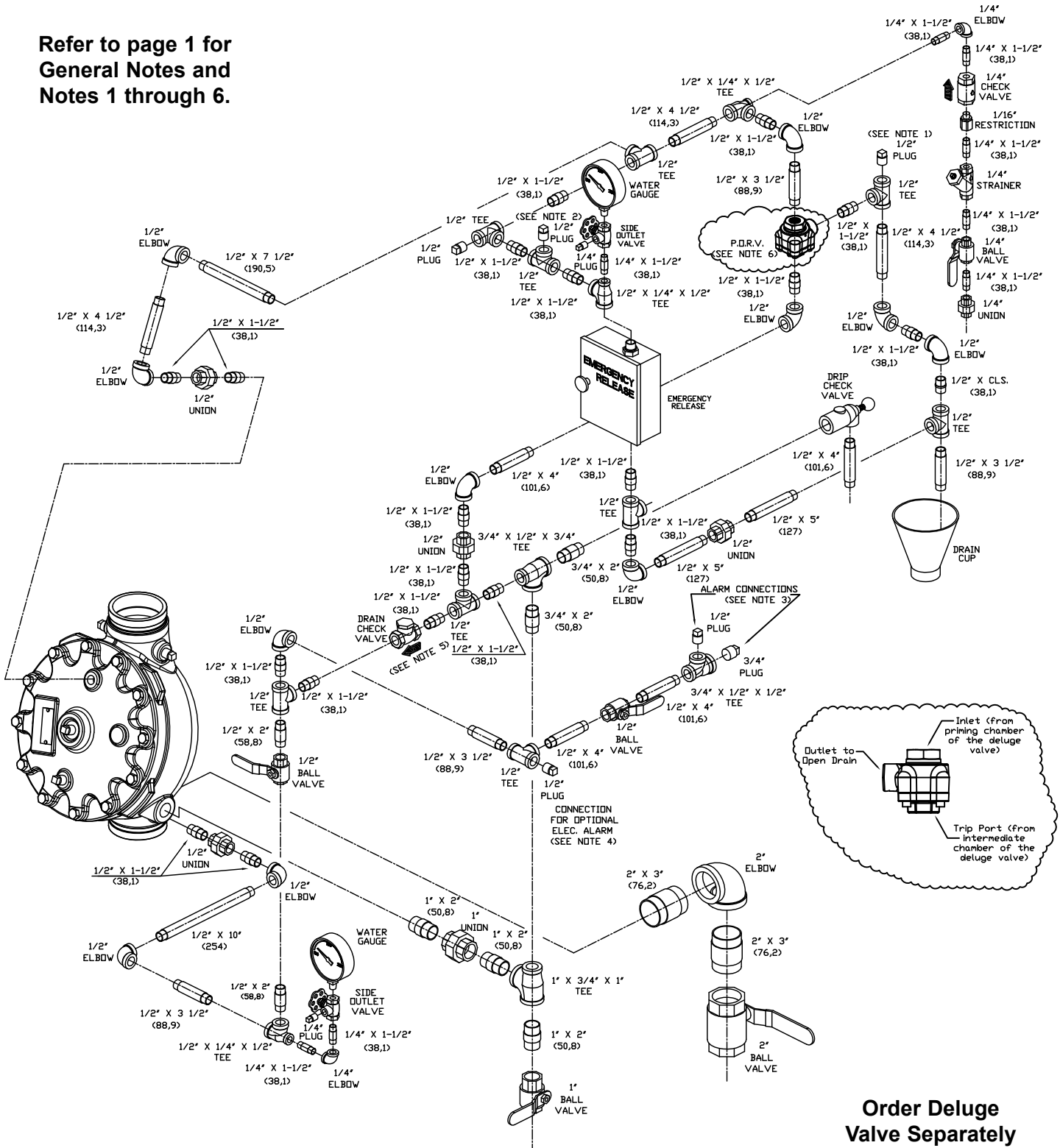
TECHNICAL DATA

4" (DN100) MODEL F-1 STRAIGHT THROUGH DELUGE VALVE VERTICAL CONVENTIONAL TRIM CHART Maximum 250 PSI WWP

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



Order Deluge Valve Separately

Figure 2



TECHNICAL DATA

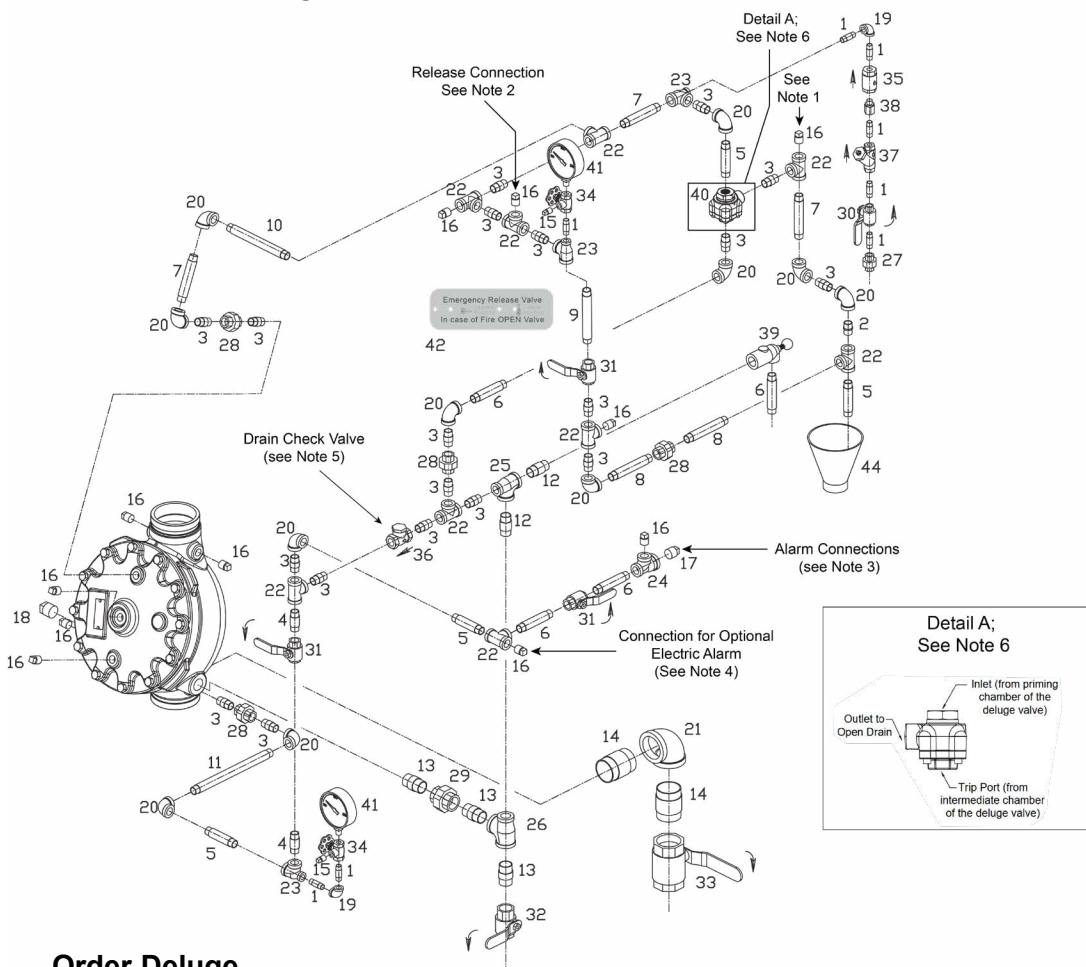
4" (DN100) MODEL F-1 STRAIGHT THROUGH DELUGE VALVE VERTICAL CONVENTIONAL TRIM CHART Maximum 250 PSI WWP

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Figure 3

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



ITEM	DESCRIPTION	REQ.
1	NIPPLE, 1/4" x 1 1/2"	8
2	NIPPLE, 1/2" x CLOSE	1
3	NIPPLE, 1/2" x 1 1/2"	19
4	NIPPLE, 1/2" x 2"	2
5	NIPPLE, 1/2" x 3 1/2"	4
6	NIPPLE, 1/2" x 4"	4
7	NIPPLE, 1/2" x 4 1/2"	3
8	NIPPLE, 1/2" x 5"	2
9	NIPPLE, 1/2" x 6 1/2"	1
10	NIPPLE, 1/2" x 7 1/2"	2
11	NIPPLE, 1/2" x 10"	1
12	NIPPLE, 3/4" x 2"	2
13	NIPPLE, 1" x 2"	3
14	NIPPLE, 2" x 3"	2
15	PLUG, 1/4"	2
16	PLUG, 1/2"	11
17	PLUG, 3/4"	1
18	PLUG, 1"	1
19	ELBOW, 1/4"	2
20	ELBOW, 1/2"	11
21	ELBOW, 2"	1
22	TEE, 1/2"	9
23	TEE, 1/2" x 1/4" x 1/2"	3
24	TEE, 3/4" x 1/2" x 1/2"	1
25	TEE, 3/4" x 1/2" x 3/4"	1
26	TEE, 1" x 3/4" x 1"	1
27	UNION, 1/4"	1
28	UNION, 1/2"	4
29	UNION, 1"	1
30	BALL VALVE, 1/4"	1
31	BALL VALVE, 1/2"	3
32	BALL VALVE, 1"	1
33	BALL VALVE, 2"	1
34	SIDE OUTLET VALVE	2
35	CHECK VALVE, 1/4"	1
36	DRAIN CHECK VALVE	1
37	STRAINER, 1/4"	1
38	RESTRICTION, 1/16"	1
39	DRIP CHECK VALVE	1
40	P.D.R.V. ASSEMBLY	1
41	WATER GAUGE	2
42	EMERGENCY RELEASE LABEL	1
43	ZIP TIE	1
44	DRAIN CUP	1

**Order Deluge
Valve Separately**



TECHNICAL DATA

**4" (DN100) MODEL F-1 STRAIGHT THROUGH DELUGE VALVE
VERTICAL CONVENTIONAL TRIM
CHART** Maximum 250 PSI WWP

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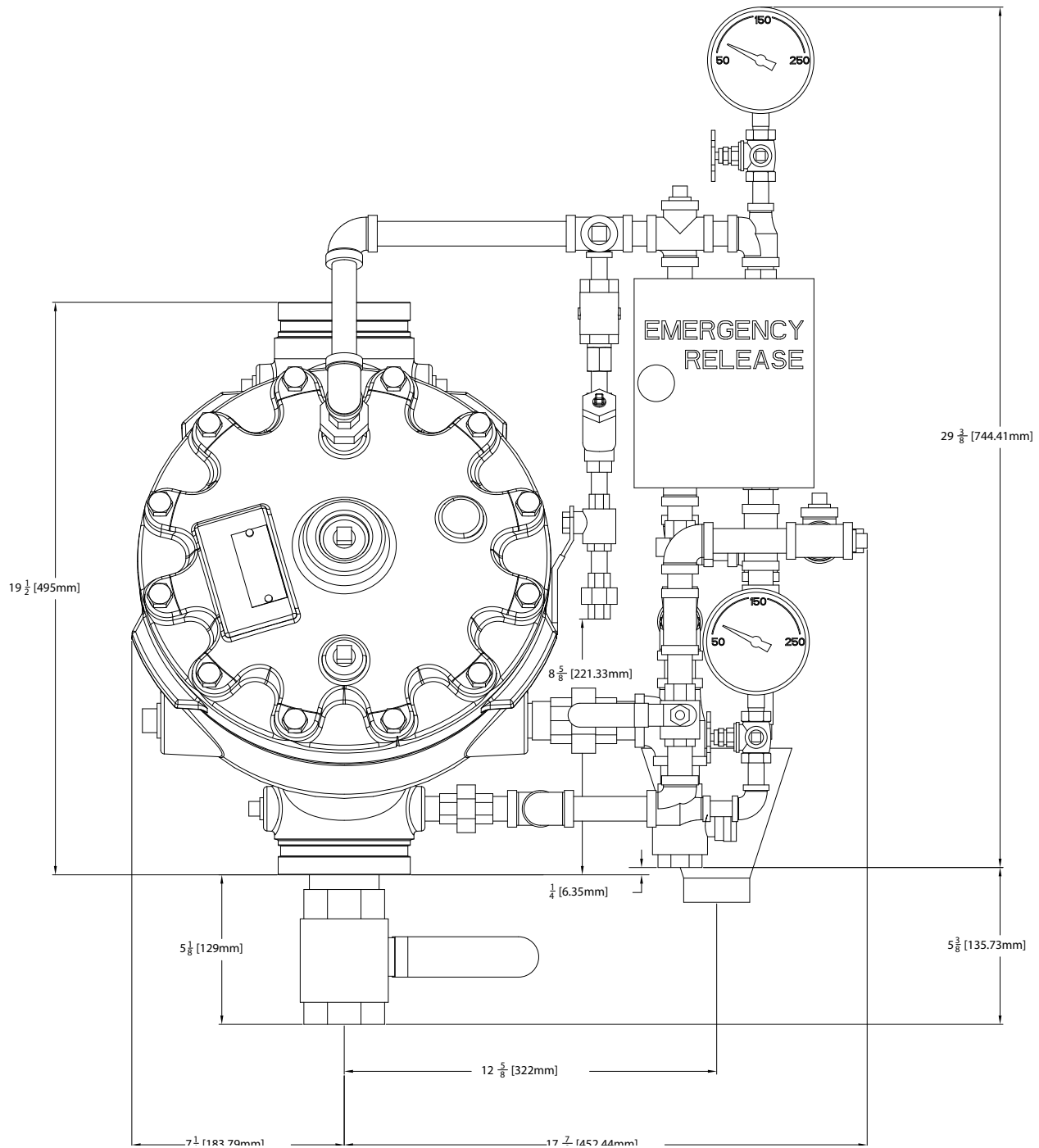


Figure 4: Installation Dimensions - Front View



TECHNICAL DATA

**4" (DN100) MODEL F-1 STRAIGHT THROUGH DELUGE VALVE
VERTICAL CONVENTIONAL TRIM
CHART** Maximum 250 PSI WWP

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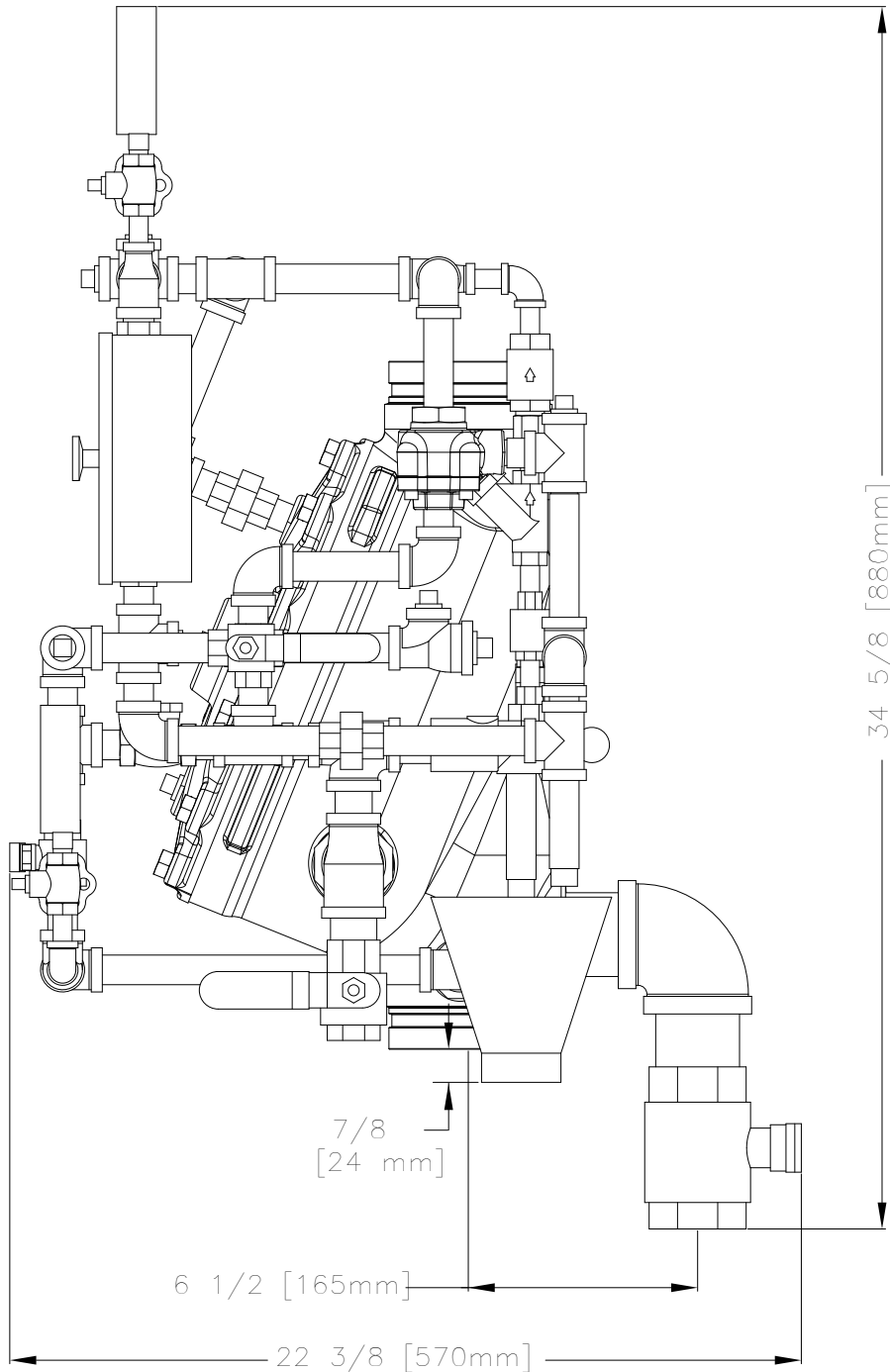


Figure 5: Installation Dimensions - Side View