

Installation

S19-310TW8

S19-310TW12

S19-310TW18

**Frostproof Combination Drench
Shower and Eyewash**

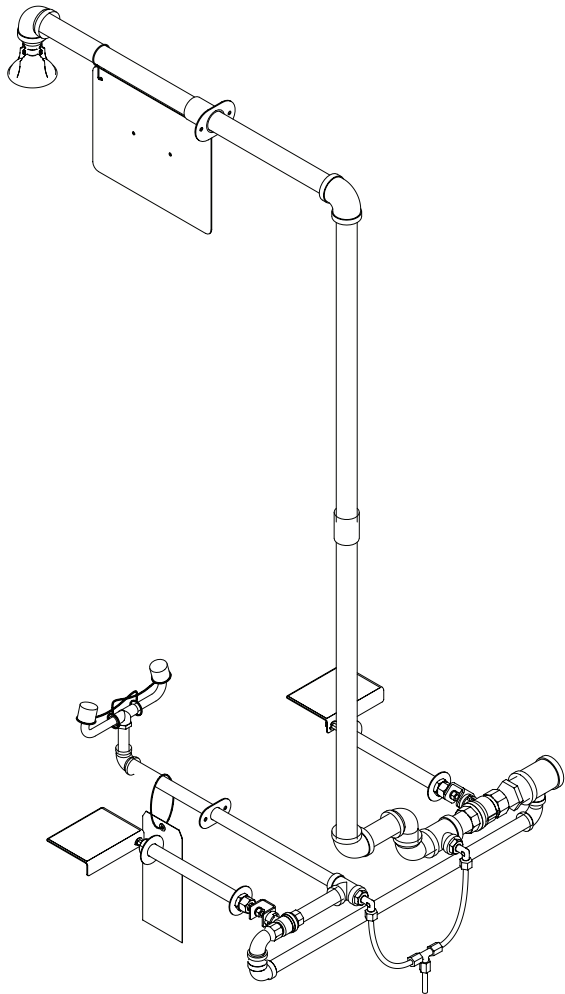


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Read the instructions in this manual before beginning installation. Save these instructions and refer to them for inspection, maintenance and troubleshooting information.

For questions regarding the operation, installation or maintenance of this product, visit bradleycorp.com or call 800.BRADLEY (800.272.3539).

Product warranties and parts information may also be found under “Products” on our website at bradleycorp.com.



Safety Information

To ensure proper operation:

Installation

This fixture has been designed and 3rd party tested to meet ANSI/ISEA Z358.1. The system must be tested periodically to be sure it is functioning properly to meet the standard. Please refer to the ANSI/ISEA Z358.1 standard on testing requirements.

The installation, maintenance and location of all safety drench showers, eye and eye/face washes must comply with the requirements of ANSI/ISEA Z358.1. Workers who may come in contact with potentially hazardous materials should be trained regarding the location and proper operation of emergency equipment per ANSI/ISEA Z358.1.

ANSI/ISEA Z358.1 requires this unit to be used with a clean, potable, uninterrupted supply of tepid water. Bradley plumbed emergency fixtures require a minimum of 30 psi flowing pressure in order to function as designed and meet the ANSI/ISEA Z358.1 standard.

Before installation make sure that this equipment will meet the requirements of the potential hazardous contaminants in your location.

Installation of this system must be completed by a qualified plumber in compliance with all national and local codes. Compliance and conformity to drain requirements and other local codes and ordinances is the responsibility of the installer.

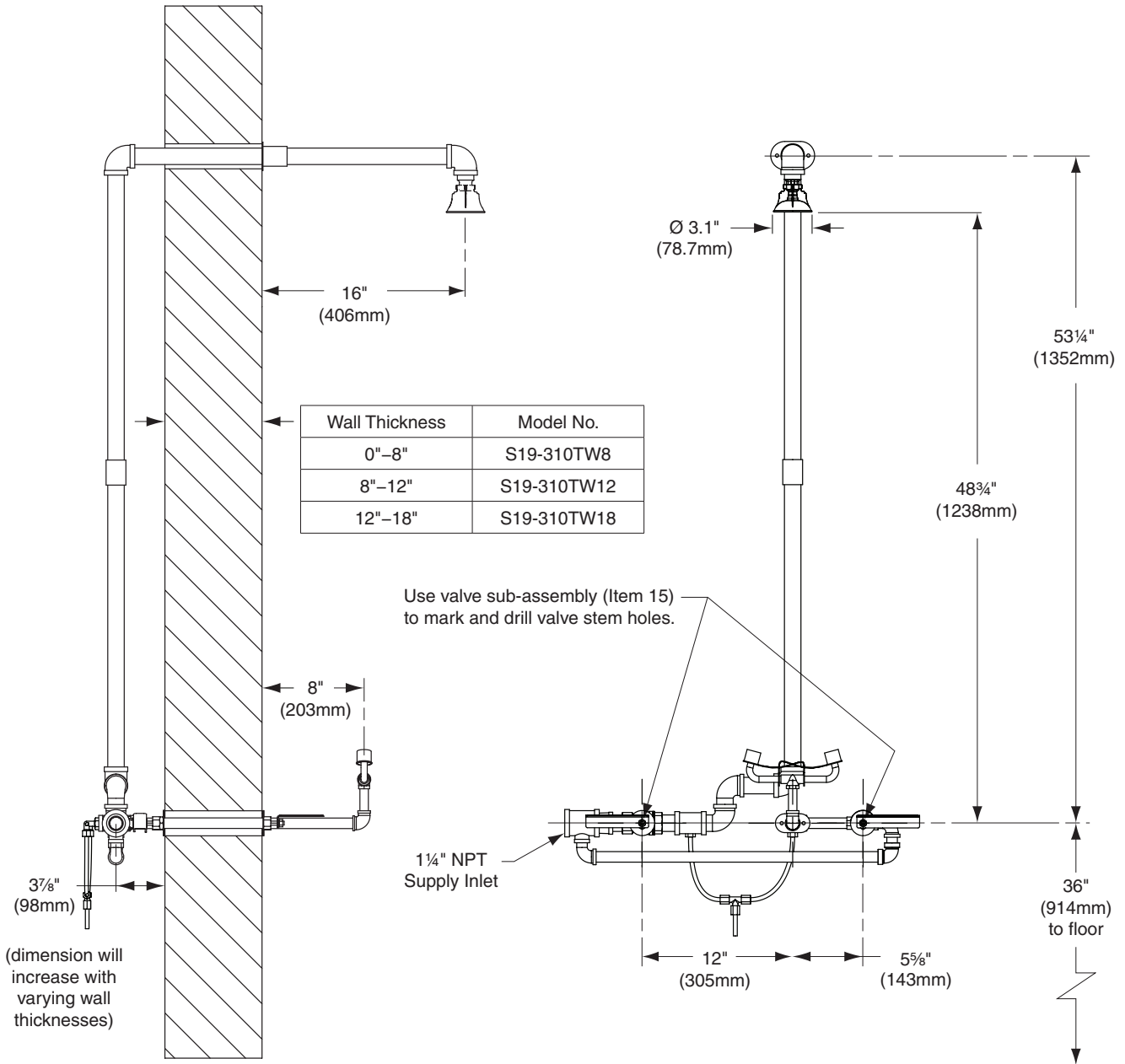
Weekly Inspections

To ensure all emergency shower and eye/face wash fixtures are ready to be used when needed, regular checks and maintenance must be conducted. Weekly inspections must be conducted on all safety equipment to make sure a suitable flushing fluid supply is present and to make sure the equipment is in good operating condition.

Water Temperature

ANSI/ISEA Z358.1 requires tepid water. Suitable range is 60°F to 100°F (16°C to 38°C). Personal injury is possible outside this temperature range.

S19-310TW Dimensions



All dimensions assume standard thread engagement. Variations in manufacturing allow for +/- 1/8" (3mm) per threaded joint. To find the tolerance of a dimension, add the number of thread joints in between a dimension and multiply it by 1/8" (3mm).

Installation

Supplies Required

- Teflon tape and pipe sealant
- Piping to 1¼" NPT water supply inlet
- Adequate supply pipe supports
- Minimum 4" (102mm) drain to accommodate 30 gallons (115 liters) per minute discharge for drench shower waste
- OPTIONAL: Sign-mounting hardware



Local codes may require the installation of a backflow prevention valve to complete proper installation. Backflow prevention valves are not included with the fixture and may be supplied by the contractor or purchased from Bradley Corporation.

NOTICE! Do not rely on Bradley's Combination Unit to support supply piping.

1 Assemble drench shower and eyewash components

1. Flush the water supply lines before beginning installation.
2. From the outside of the building, drill a 1" dia. hole in the wall 36" up from the ground floor for the eyewash piping. Use the sub-assembly (Item 15) to measure, mark and drill two 1-3/8" dia. holes for the valve operating stems.



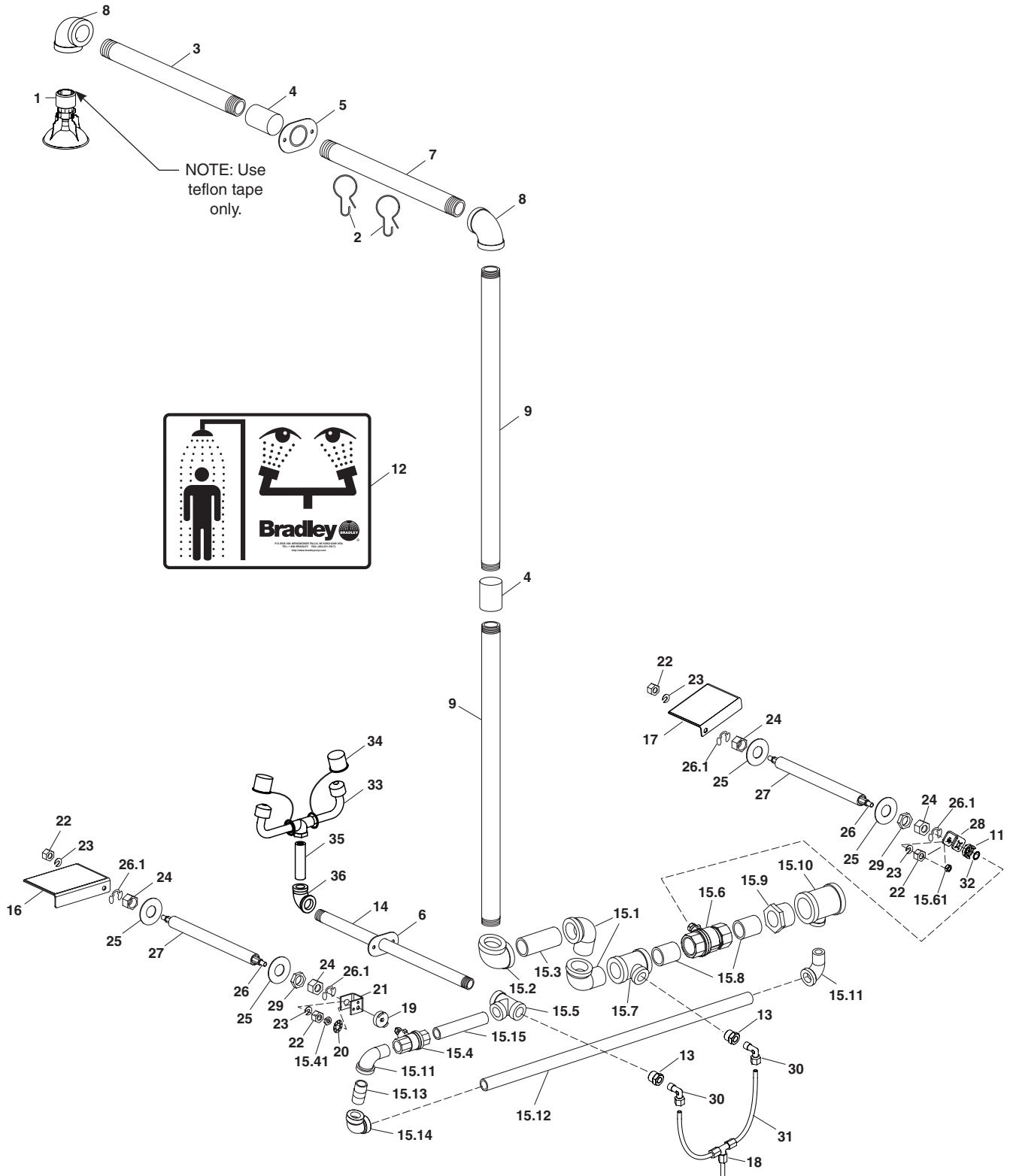
This unit has been designed to accommodate varying wall thicknesses. When installing the operating stem support sleeve (Item 27), make sure that a minimum 5/8" of threaded pipe protrudes from the wall.

3. Assemble the two valve stems as shown on page 5 and connect the stems to the assembly through the holes in the wall.
4. Secure the assembly to the wall with adequate supports supplied by installer. Make sure that Item 14 is pitched a minimum of 1/2" toward the building to allow for proper weep valve drainage.
5. Connect Items 4, 8, 9 and another Item 9 (as shown on page 5) and attach them to Item 15.2.
6. Mark and drill a 1-3/8" dia. hole for the shower pipe.
7. Assemble the rest of the unit as shown on page 5.

2 Connect water supply

1. Connect water supply piping to the 1-1/4" NPT inlet (piping supplied by installer). Provide adequate supports (supplied by installer) for supply pipe using pipe hangers or other means.
2. Run the drain's 5/16" tubing to an adequate drain containment.
3. Hang the safety sign from the unit with the curtain hooks provided (or mount it to the wall using sign-mounting hardware supplied by installer).
4. Flush the supply lines after installation is complete. Test the unit for leaks and adequate water flow.

Assembly of Components



Parts List

Item	Part No.	Qty.	Description
1	S24-188	1	Showerhead, Plastic
2	151-001	2	Hook
3	113-1107	1	Pipe, 1" NPT x 14"
4	169-1027	2	Coupling, 1" NPT
5	150-212	1	Escutcheon, Shower Pipe
6	150-213	1	Escutcheon, Eyewash Pipe
7	113-1108	1	Pipe, 1" NPT x 11½" (S19-10TW8)
	113-1109	1	Pipe, 1" NPT x 15½" (S19-10TW12)
	113-1110	1	Pipe, 1" NPT x 21½" (S19-10TW18)
8	169-847	2	Elbow, 1" NPT
9	113-1112	2	Pipe, 1" NPT x 24"
11	153-489	1	Bracket, 1" Ball Valve Adapter
12	114-052	1	Safety Sign
13	S29-068	2	Weep Valve Assembly
14	113-1116	1	Pipe, ½" NPT x 18¾" (S19-10TW8)
	113-1117	1	Pipe, ½" NPT x 22¾" (S19-10TW12)
	113-1118	1	Pipe, ½" NPT x 28¾" (S19-10TW18)
15	S08-369	1	Valve Sub-Assy, Eyewash/ Shower
15.1	169-723	2	1" Street Elbow 90°
15.2	169-847	1	Elbow, 1" NPT
15.3	113-1113	1	Pipe, 1" x 3"
15.4	S27-282	1	½" Ball Valve with Nut
15.41	110-215	1	Nut (only)
15.5	169-838	1	Tee, ½" NPT
15.6	S27-278	1	1" Ball Valve with Nut
15.61	110-214	1	Nut (only)
15.7	169-840	1	Tee, 1" x 1" x ½"
15.8	113-935	2	Pipe, 1" NPT x 1½"
15.9	269-1721	1	Reduc'g Bushing, 1¼" x 1"
15.10	169-841	1	Tee, 1¼" x ½"

Item	Part No.	Qty.	Description
15.11	169-025	2	90° Street Elbow ½" NPT
15.12	113-1114	1	Pipe, ½" NPT x 23 ¹⁷ / ₃₂ "
15.13	113-1084	1	Pipe, ½" NPT x 1½"
15.14	169-839	1	Elbow ½" NPT
15.15	113-1115	1	Pipe, ½" NPT x 4¼"
16	S08-361	1	Handle, Eyewash
17	S08-711	1	Handle, Shower
18	269-1720	1	Tee, ⅝" Hose, Nylon Union
19	153-372R	1	Adapter, ½" Ball Valve
20	142-002DA	1	Lockwasher, ⅝" Internal Tooth
21	128-151	1	Adapter, ½" Ball Valve Handle
22	161-036	4	Nut, Hex ⅝"-18 Stn. Steel
23	142-002BK	4	Lockwasher, ⅝" Stn. Steel
24	110-191	4	Nut, ½"-14 NPS Connector
25	142-002CB	4	Washer, 7/8" x 2" Stainless Steel
26	S21-067	2	Rod, Operating (S19-310TW8)
	S21-067A	2	Rod, Operating (S19-310TW12)
	S21-067B	2	Rod, Operating (S19-310TW18)
26.1	132-042	4	Clip, Retaining
27	113-006NN	2	Sleeve, Operating Rod (S19-310TW8)
	113-006NR	2	Sleeve, Operating Rod (S19-310TW12)
	113-006NU	2	Sleeve, Operating Rod (S19-310TW18)
28	128-200	1	Adapter, 1" Ball Valve Handle
29	110-115	2	Nut, ½" NSPM
30	269-881	2	Elbow Connector, ¼" NPT, ⅝" Tube
31	R68-600015	4 ft.	Tube, ⅝" Polyethylene
32	124-048	1	Lockwasher, ⅜" Internal Tooth
33	S05-091	1	Eyewash Yoke
34	107-371	2	Tethered Dust Cover
35	S21-077	1	Stem
36	169-1069	1	Elbow, ½" x ⅜"