

# **SPEAKMAN®**

## SE-675 Installation, Operation, and Maintenance Instructions SAFE-T-ZONE® EMERGENCY SHOWER AND EYE/FACE WASH

### **DESCRIPTION**

Floor mounted emergency deluge shower and non-aerated eye/face wash combination unit. Shower is supplied with a 1" NPTF stay-open full flow ball valve, activated by triangular pull handle. Eye/face wash is supplied with 1/2" NPTF stay-open full flow ball valve, activated by push handle.

### **SPECIFICATIONS**

SHOWER HEAD: 8" Dia. CYCOLAC® Yellow Plastic.

FLOW CONTROL: Internal 20 gpm Regulator.

VALVE: 1" NPT Female Brass, Chrome-Plated. Full Flow Stay-Open Ball Valve.

ACTIVATOR: Powder Coated Yellow, Aluminum Triangular Pull Rod.

STANCHION: 1-1/4" Galvanized Steel Pipe and Fittings.

INLET: 1-1/4" NPT Female.

FLOOR FLANGE: Galvanized Steel Casting with (3) 17/32" Dia. Mtg. Holes on 9" Dia. Bolt Circle, Spaced 120° apart.

EYE/FACE WASH: SE-575 Non-Aerated Eye/Face Wash

EMERGENCY SIGN: 7-7/8" x 12" Plastic Wall Graphic Sign

SHIPPING WEIGHT: 46 lb.

### **Assembly Instructions**

When assembling, be sure to *use thread sealant/locker on all threaded connections*, and wrench-tighten all threaded connections. Note, proper drying or curing of the thread-locker should be allowed on the threaded connections so that properly oriented parts that have already been assembled are not moved during the assembly of the component that follow. A wrench or pipe nipple can be used for reverse leverage to help eliminate the movement of the earlier assembled parts. When assembling plastic deluge shower head (SE-870) use sealant compatible with ABS plastic. To assure proper location and alignment of inlets, outlets, etc. The best method to assemble this unit is to follow instructions below while referencing parts diagram.

#### *Required Tools:*

Pipe Thread Sealant / Locker	Pipe Wrench or Strap Wrench for 1-1/4" & 1" Pipe.
Adjustable Wrench (Large and Small)	Phillips Head Screw Driver
(3) Suitable Anchors for mounting unit to floor	Vise (Optional)

Assemble vertical stanchion portion

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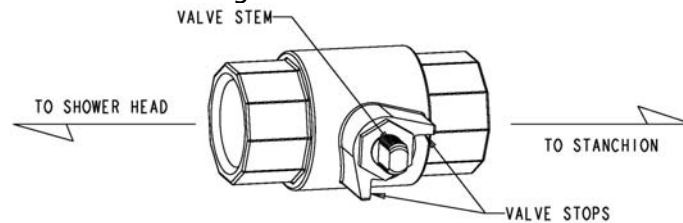
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1. At desired location, mount floor flange (Item #2) on flat surface using suitable anchors, making sure that one of the three “ears” on the floor flange is positioned at what will be the front of the unit (see “Floor Flange Detail” on page #6) . The unit should be placed so that there is sufficient unobstructed area around the unit.
2. Assemble 1-1/4” x 29-3/8” lg. pipe (item #3) into the floor flange.
3. (IMPORTANT) Assemble “blocked port” end of 1-1/4” x 1-1/4” x 1/2” blocked tee (item #4) to 1-1/4” x 29-3/8” lg. pipe, making sure that the 1/2” male thread side outlet is positioned towards the front of the unit.
4. Assemble 1-1/4” x 31” lg. pipe (item #5) to the 1-1/4” x 1-1/4” x 1/2” tee.
5. Assemble 1-1/4” tee (item #6) to 1-1/4” x 31” lg. pipe, making sure it is aligned so the side outlet of the tee faces towards the back of the unit.
6. Assemble 1-1/4” x 22-1/4” lg. pipe (item #7) to the 1-1/4” tee.
7. Assemble 1-1/4” x 1-1/4” x 1” Tee (item #8) to 1-1/4” x 22-1/4” lg. pipe, making sure that the 1” male thread on the elbow is facing towards the front of the unit.
8. Assemble the 1” x 6” lg. pipe (item #9) to the 1-1/4” x 1-1/4” x 1” Tee.
9. (IMPORTANT) With ball valve stops located as shown below, assemble 1” ball valve (item #10) to the 1” x 6” lg. pipe making sure that when fully tightened the ball valve stem & stops are oriented on right side of unit.



10. Assemble 20 gpm flow control (item #11) in end of 1” x 14” lg. pipe (item #12) making sure it is properly seated and fully inserted.  
*Note: If you have selected the 30GPM option disregard step #15 and follow the assembly instructions supplied with the 30GPM flow regulator option group now.*
11. Assemble 1” x 14” lg. pipe end with 20 gpm flow control into the 1” ball valve.
12. Assemble 1” street elbow (item #13) to 1” x 14” lg. pipe, making sure it is aligned so that the male thread is facing downwards.
13. Assemble 8” (plastic, stainless steel, or brass) deluge shower head (item #14) to 1” street elbow, making sure not to over tighten.  
*Note: If you have selected the FLW (Flow Switch) option follow the assembly instructions supplied with this option now. This includes connecting the electrical supply.*

#### Eye/Face Wash Sub-Assembly

14. Assemble 1/2” chrome-plated coupling (item #1F) to 1-1/4” x 1-1/4” x 1/2” tee.
15. Assemble 1/2” x 2-5/8” lg. chrome-plated pipe (item #1E) to 1/2” coupling.  
*Note: If you have selected the FPV and/or SPV option follow the assembly instructions supplied with this option now.*

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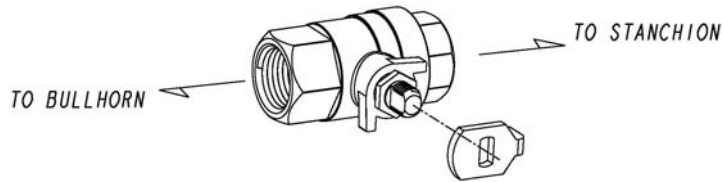
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16. Assemble  $\frac{1}{2}$ " chrome-plated ball valve (item #1D) to  $\frac{1}{2}$ " x 2- $\frac{5}{8}$ " lg. pipe, making sure when fully tightened the valve stem is located on the right-hand side of the unit, and the valve stops are oriented as shown below.



17. Assemble  $\frac{1}{2}$ " x 3- $\frac{3}{4}$ " lg. chrome plated pipe (item #1C) to  $\frac{1}{2}$ " chrome plated ball valve.
18. Assemble  $\frac{1}{2}$ " chrome plated elbow (item #1B) to  $\frac{1}{2}$ " x 3- $\frac{3}{4}$ " lg. chrome plated pipe.
19. Assemble bull horn assemble (item #1A) onto  $\frac{1}{2}$ " chrome plated elbow.
20. (IMPORTANT) Assemble valve stop (item #1G) on to the valve stem of the  $\frac{1}{2}$ " chrome plated ball valve as shown above.
21. Assemble  $\frac{1}{2}$ " valve stem extension (item #1H) to the threaded valve stem of the  $\frac{1}{2}$ " ball valve.
22. (IMPORTANT) Insert  $\frac{1}{2}$ " valve stem extension drive (item #1I) over stem extension and onto to  $\frac{1}{2}$ " valve stop, making sure the stop insert fully into the slot on the stem extension drive.
23. Insert tab on paddle handle (item #1J) fully into slot on  $\frac{1}{2}$ " valve stem extension drive, and secure with #10-24 flanged screw (item #1K).

#### Final Assembly

24. Through the small round hole, on the opposite side of the spring loaded plunger, on the lever handle (item #19), insert the  $\frac{1}{4}$ "-20 x 5/8" lg. screw (item #21), and fasten with the  $\frac{1}{4}$ -20 hex nut (item #20).
25. Assemble lever handle sub-assembly (items #19, #20, #21) to ball valve (item #14) stem, making sure to orient male threads of  $\frac{1}{4}$ "-20 screw so that it rests between the stops on the ball valve. Note, this allows proper 90° rotation of ball valve from the on & off positions.
26. Assemble (aluminum or stainless steel) pull rod (item #23) by inserting tip of lever handle (item #19) through slot on pull rod, aligning the holes on pull rod and lever handle, and insert 5/16" diameter clevis completely through holes. Insert 3/32" cotter pin (item #25) through small hole of clevis pin (item #24). Bend end of cotter pin so it does not fall out.
27. Connect an uninterruptable potable water supply to the 1- $\frac{1}{4}$ " supply inlet (item #5) with a minimum flowing pressure of 30psi and a maximum static pressure of 100psi. Failure to use potable water can result in emergency units producing impure or contaminated water causing possible further injury.

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28. Connect an adequate drain that is in compliance with all local plumbing codes to the 1-1/4" drain (item #3).
29. Turn water supply on and check all pressurized connections for leaks.
30. Test the unit by operating both the shower and the eye/face wash.

## Flow Data

### Shower

FLOW PRESSURE PSI (BAR)	30 (2.07)	60 (4.14)
FLOW RATE GPM (LPM)	20 (75)	25 (94)

Note: All units meet existing ANSI Z358.1 Standards and OSHA Rules. Product improvements may cause specification and dimensional changes without notice.

### Eye/Face Wash

FLOW PRESSURE PSI (BAR)	30 (2.07)
FLOW RATE GPM (LPM)	4.5 (17)

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## **Bill of Material**

Item No.	Qty. Per	Description
1A	1	Non-Aerated Bull Horn Spray Head Assembly
1B	1	½" Chrome Plated Elbow
1C	1	½" x 3-¾" Lg. Chrome Plated Pipe
1D	1	½"½" Chrome Plated Ball Valve
1E	1	½" x 2-5/8" Lg. Chrome Plated Pipe
1F	1	½" Chrome Plated Coupling
1G	1	½" Valve Stop
1H	1	½" Ball Valve Stem Extension
1I	1	½" Ball Valve Stem Extension Drive
1J	1	Paddle Handle & Decal
1K	1	#10-24 Flanged Screw
2	1	1-¼" Galvanized Floor Flange
3	1	1-¼" x 29-3/8" Lg. Galvanized Pipe
4	1	1-¼" x 1-¼" x ½" Male Blocked Tee
5	1	1-¼" x 31" Lg. Galvanized Pipe
6	1	1-¼" Galvanized Tee
7	1	1-¼" x 22-¼" Lg. Galvanized Pipe
8	1	1-¼" x 1-¼" x 1 Tee
9	1	1" x 6" Lg. Galvanized Pipe
10	1	1" Chrome Plated Brass Ball Valve
11	1	20 gpm Flow Control
12	1	1" x 14" Lg. Galvanized Pipe
13	1	1" Galvanized Street Elbow
14	1	8" Deluge Plastic Shower Head
15	1	Lever Handle with Detent for 1" Ball Valve
16	1	¼"-20 Stainless Steel Hex Nut
17	1	¼"-20 x 5/8" Lg. Stainless Steel Machine Screw
18	1	3/8"-20 Hex Nut for 1" Ball Valve
19	1	¾" Dia. Aluminum Pull Rod
20	1	5/16" Dia. Stainless Steel Clevis Pin
21	1	3/32" Dia. Stainless Steel Cotter Pin
22	1	1-¼ Galvanized Plug
23	1	Flow control Housing

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## **Shower & Eye/Face Wash Operation**

The *shower* is activated by pulling the triangle pull handle. Once the valve is activated the head will continue to discharge water until the valve is manually closed. This is done by pushing up the pull handle to the off position.

The *eye/face wash* is activated by pushing the push handle back 90°. The unit will operate until the push handle is manually pulled back up to the off position.

## **Testing Program**

The American National Standards Institute (ANSI) states that all safety emergency equipment shall be activated on a weekly basis to flush the line and verify proper operation. Speakman Company furnishes a testing record tag (91-0635) with each unit. On this tag the date of inspection and the inspector's initials should be noted.

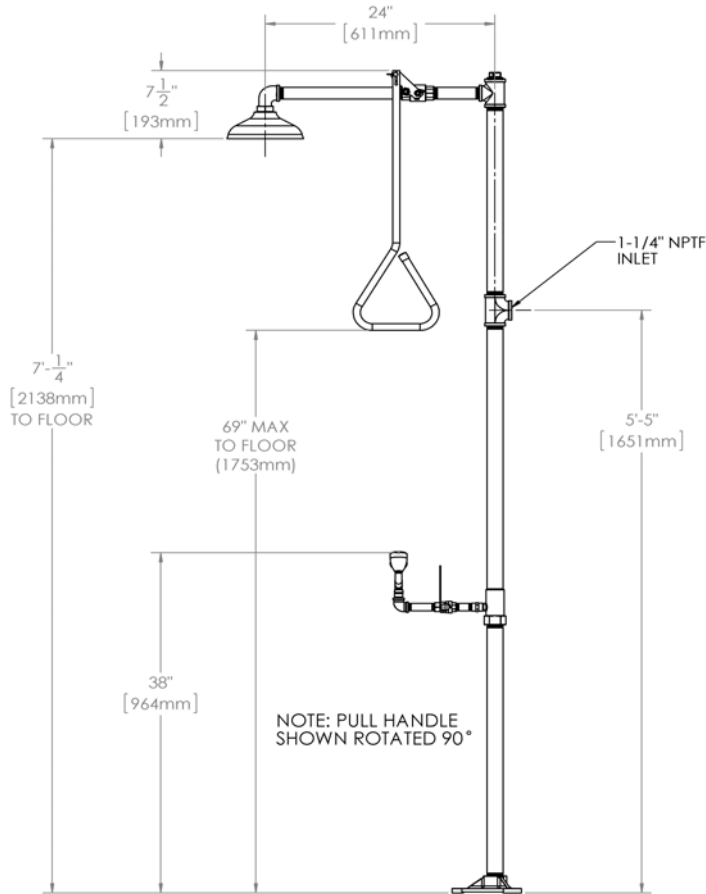
## **Maintenance**

Should you need parts to repair this unit, please reference to the parts listing for correct repair part number. Before any maintenance is done be sure to shut the water supply off. (WARNING) Use only genuine Speakman parts when repairing or replacing components. To order parts call 1-800-537-2107.

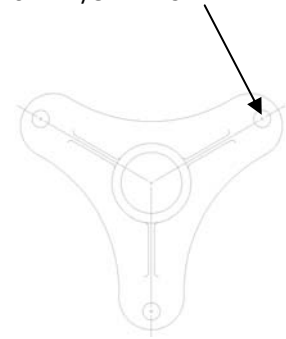
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# Rough In



(3) 17/32" Dia. Holes Equally Spaced on 7-7/8" D.B.C.



Front of Unit

## FLOOR FLANGE DETAIL

NOTE: All dimensions assume nominal thread engagement. Industry standard is +/- 1/8" per pipe thread. To find actual tolerance of a dimension multiply 1/8" (3mm) by number of threaded joints within dimension.

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