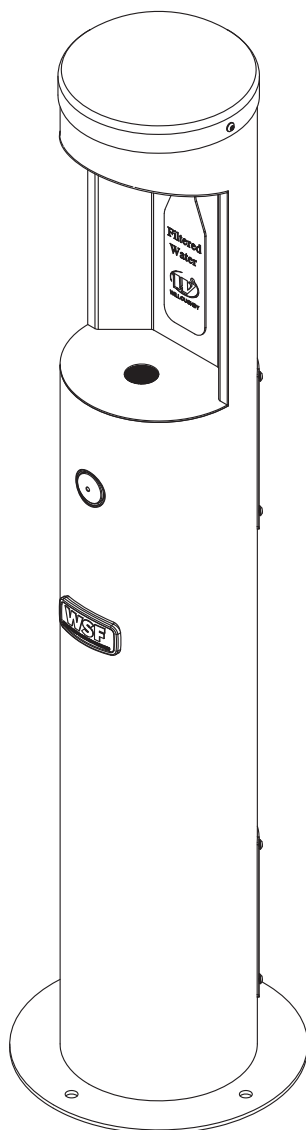




**CWBF-1**

# Installation & Operation Manual

## CWBF Series

### Outdoor Bottle Fillers Adjustable Push Button and Battery Operated Infrared

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MADE IN THE U.S.A.



## Pre-Installation Information

# Installation notice!

Check Rough-In location **PRIOR** to installation

Flush lines thoroughly **PRIOR** to hook-up

When installing the **Willoughby Stainless Fountains' CWBF Series** bottle filler system:

Before Step 1 of the installation instructions, ensure that rough-ins are in the correct location.

The valve assembly, including the spray head, **MUST NOT BE** connected until *after* all lines have been flushed to remove the small particles of debris that are inherent with new construction projects and all chemicals that are used in flushing are purged from the system.

Chemicals used in flushing plumbing systems can attack the internal components of the valve and spray head and severely damage them, so any flushing of the system must be followed by a full flushing with pure water to clear any harsh chemicals remaining in the system. Debris in the system if allowed to enter the valve assembly and spray head can cause poor performance or outright failure.

Again **DO NOT** attempt to connect the valve assembly and spray head until *after* all flushing is complete and pure water is the only media that will be passing through the system. Damage to the valve assembly or spray head caused by harsh chemicals or debris will not be covered by the manufacturer's warranty.

Any fittings provided by the installer should be made of plastic to electrically isolate the unit from the building or connected plumbing system.

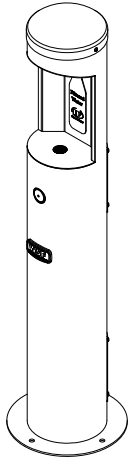
The grounding of electric equipment such as telephones, computers, etc, to water lines is a common procedure. This grounding can cause electrical feedback into a water fountain or similar fixture, causing electrolysis, which results in a metallic taste or an increase in the metal content of the water. This can easily be avoided by using the proper materials as indicated.

# Installation notice!

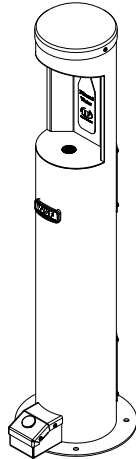
Check Rough-In location **PRIOR** to installation

Flush lines thoroughly **PRIOR** to hook-up

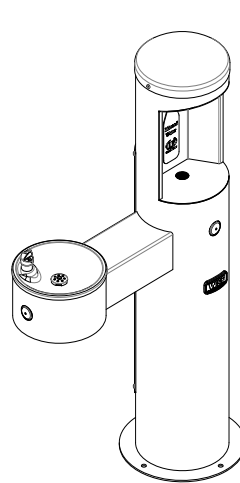
## Standard Bottle Filler Configurations- CWBF Series



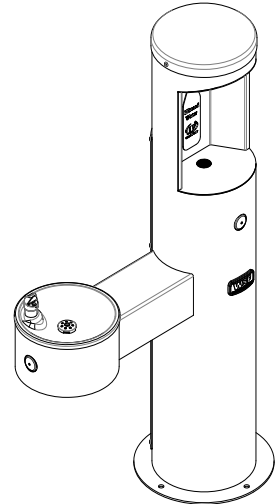
CWBF-1



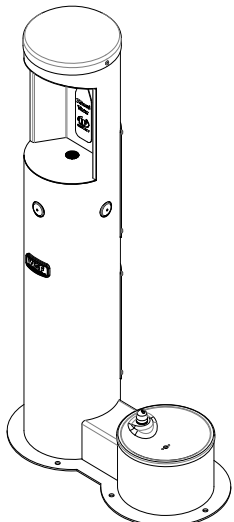
CWBF-1-HF-FO



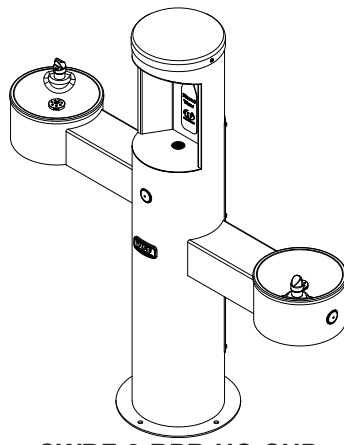
CWBF-2-RPB-HC



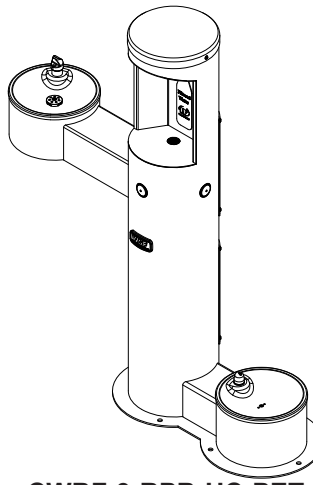
CWBF-2-RPB-CHD



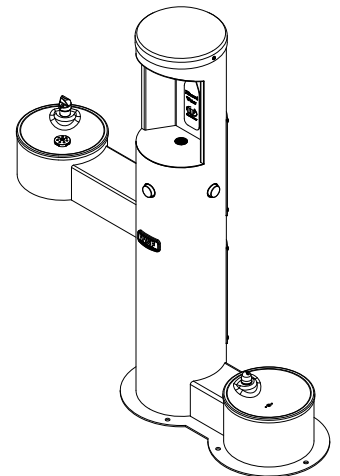
CWBF-2-RPB-PET



CWBF-3-RPB-HC-CHD



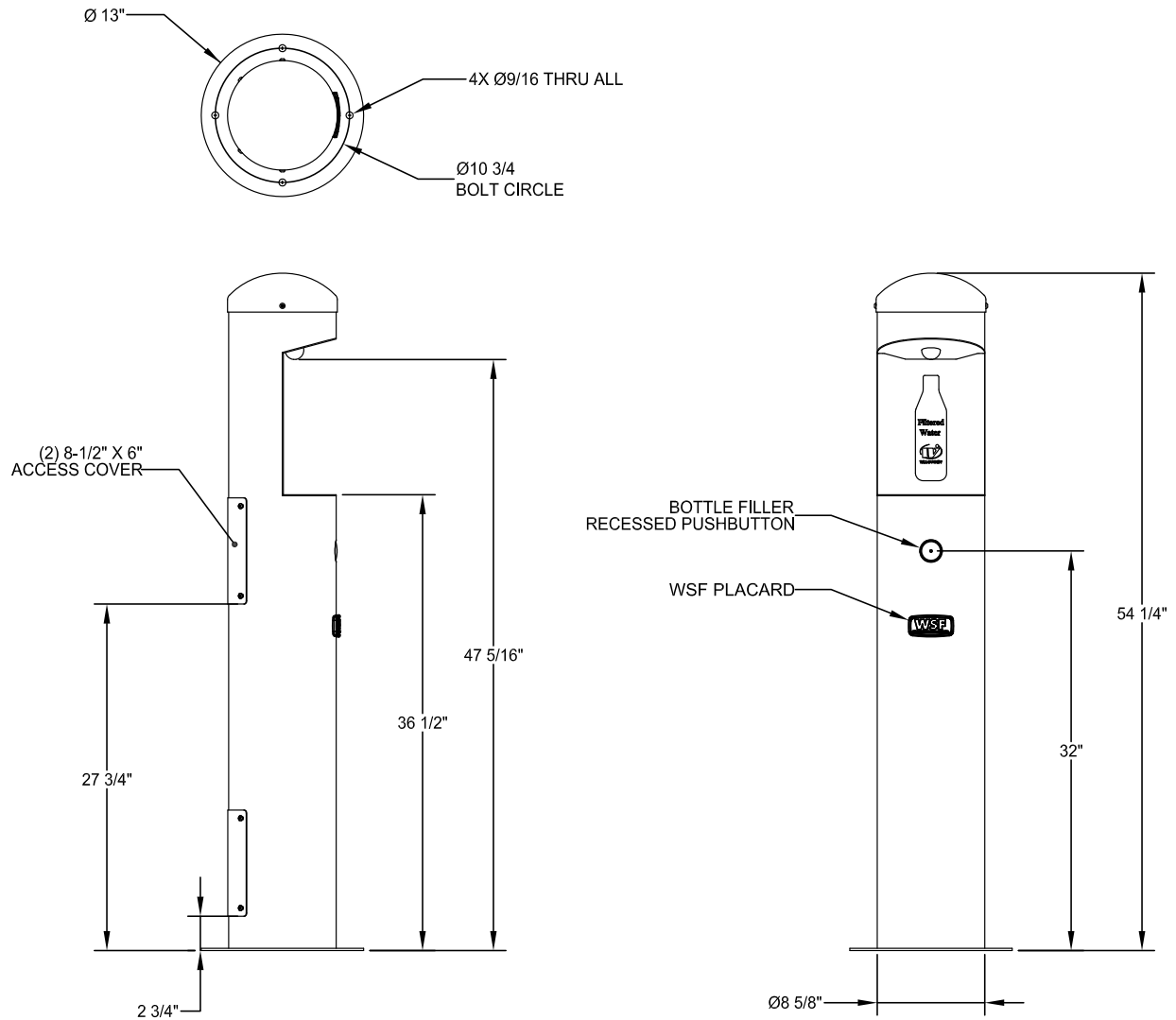
CWBF-3-RPB-HC-PET



CWBF-3-RPB-CHD-PET

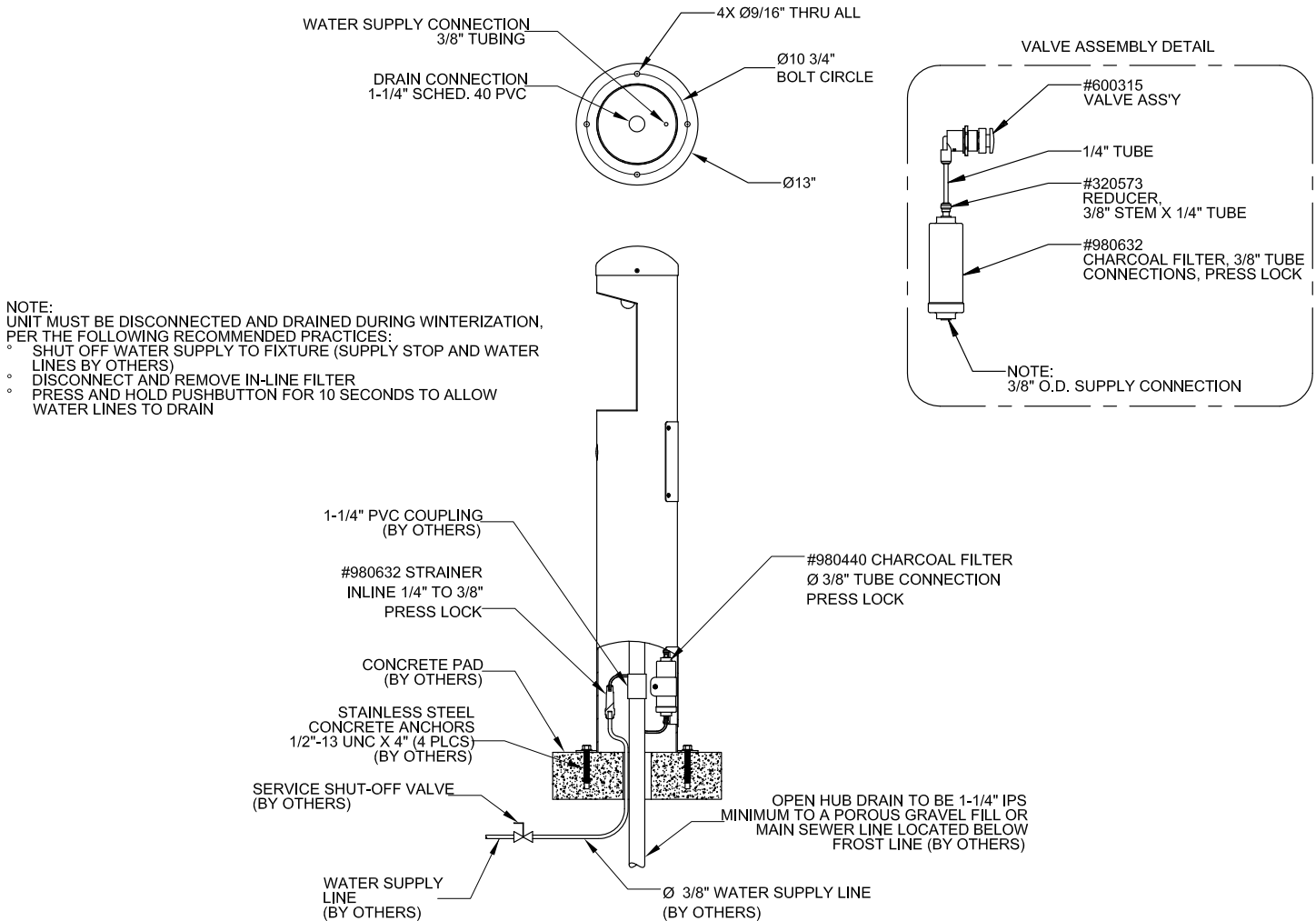
# Physical Dimensions- CWBF-1

\*CWBF-1 shown; for CWBF-2 and CWBF-3 model variations, refer to factory drawings. Contact Willoughby Stainless Fountains if further information is needed.



# Rough-In Dimensions- CWBF-1

**\*CWBF-1 shown; for CWBF-2 and CWBF-3 model variations, refer to factory drawings. Contact Willoughby Stainless Fountains if further information is needed.**



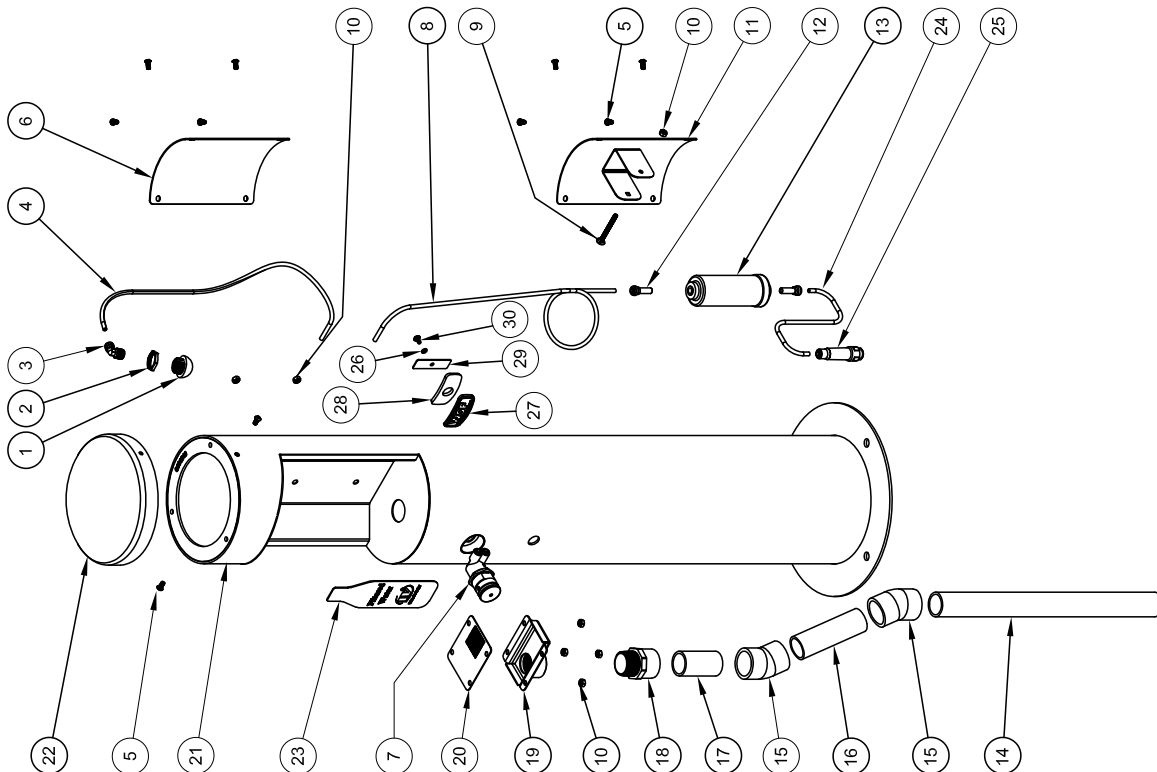
## **Required Installation Supplies**

- Proper mounting hardware
- Proper plastic fittings as indicated
- Hardware for waste outlet connections
- Gasket for waste outlet connection
- Shims (for installation if necessary)
- Supply piping
- Silicone caulk
- Plumbers putty

**⚠ WARNING: Willoughby Stainless Fountains does not assume any responsibility for personal injury or damage to equipment due to an improperly installed CWBF Series Bottle Filler**

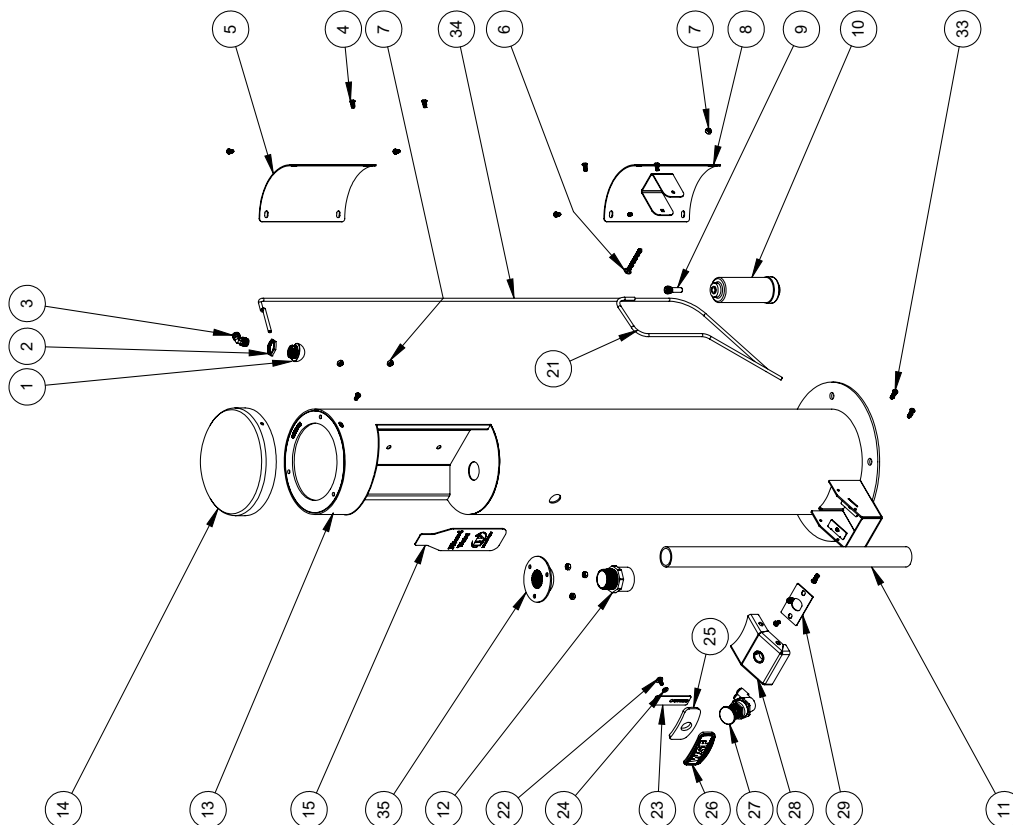
# Parts List and Exploded-view Drawing- CWBF-1

| ITEM # | PART #       | DESCRIPTION                                        | QTY |
|--------|--------------|----------------------------------------------------|-----|
| 1      | 380063       | HEMISPHERIC BOTTLE FILLER BUBBLER                  | 1   |
| 2      | 600612N      | HEX NUT, 3/4"-14 NPSM                              | 1   |
| 3      | 320575       | ELBOW, 3/8" NPTF MALE X 1/4" TUBE PUSH-TO-CONNECT  | 1   |
| 4      | 600471-24A   | TUBING, 1/4" OD X 0.17" ID X 24" LONG              | 1   |
| 5      | 4500NSS      | SCREW, SEC(BH), S/S, 1/4-20 x 1/2"                 | 10  |
| 6      | S200141      | ACCESS COVER FOR CWBF-1, 6.125" x 8.5"             | 1   |
| 7      | 600315       | VALVE ASSEMBLY, ADJUSTABLE                         | 1   |
| 8      | 600471-36    | TUBING, 1/4" OD X 0.17" ID X 36" LONG              | 1   |
| 9      | 600635N      | CARRIAGE BOLT, 1/4"-20 X 2-1/2"                    | 1   |
| 10     | 600613N      | HEX NUT, 1/4"-20, STAINLESS STEEL                  | 7   |
| 11     | S200152      | ACCESS COVER ASSY FOR CWBF-1                       | 1   |
| 12     | 320573       | REDUCER, 3/8" STEM X 1/4" TUBE                     | 2   |
| 13     | 980440       | CHARCOAL FILTER, 3/8" TUBING CONNECTIONS           | 1   |
| 14     | 320279-18    | PVC PIPE, 1 1/4" SCHED 40 X 18" LONG               | 1   |
| 15     | 320281       | ELBOW, 22.5°, 1-1/4" FEMALE UNTHREADED SOCKET ENDS | 2   |
| 16     | 320279-5,156 | PVC PIPE, 1 1/4" SCHED 40 X 5,156" LONG            | 1   |
| 17     | 320279-3     | PVC PIPE, 1 1/4" SCHED 40 X 3" LONG                | 1   |
| 18     | 320283       | PVC THREADED ADAPTER, 1 1/4"                       | 1   |
| 19     | S200135      | DRAIN BOX ASSY FOR CWBF-1                          | 1   |
| 20     | S200142      | DRAIN SCREEN FOR CWBF-1                            | 1   |
| 21     | S200150      | WELDED BODY ASSY - CWBF-1-RPB                      | 1   |
| 22     | S200129      | BODY CAP, Ø 8.625"                                 | 1   |
| 23     | S200035      | PLACARD FOR CWBF SERIES                            | 1   |
| 24     | 600471-12    | TUBING, 1/4" O.D. X 0.17" I.D. X 12" LONG          | 1   |
| 25     | 980632       | STRAINER, IN-LINE, 1/4 TO 3/8 PRESS LOCK           | 1   |
| 26     | 800111       | WASHER, SPLIT LOCK, ZINC 1/4in, S/S                | 1   |
| 27     | 701494       | WSF PLACARD, STAINLESS STEEL, 1.75X3.75            | 1   |
| 28     | 701493       | GASKET, WSF PLACARD                                | 1   |
| 29     | S200442      | WSF PLACARD WASHER                                 | 1   |
| 30     | 800144       | SCREW, PHILLIP (TH), S/S, 1/4-20 X 1/2" TRUSS HEAD | 1   |



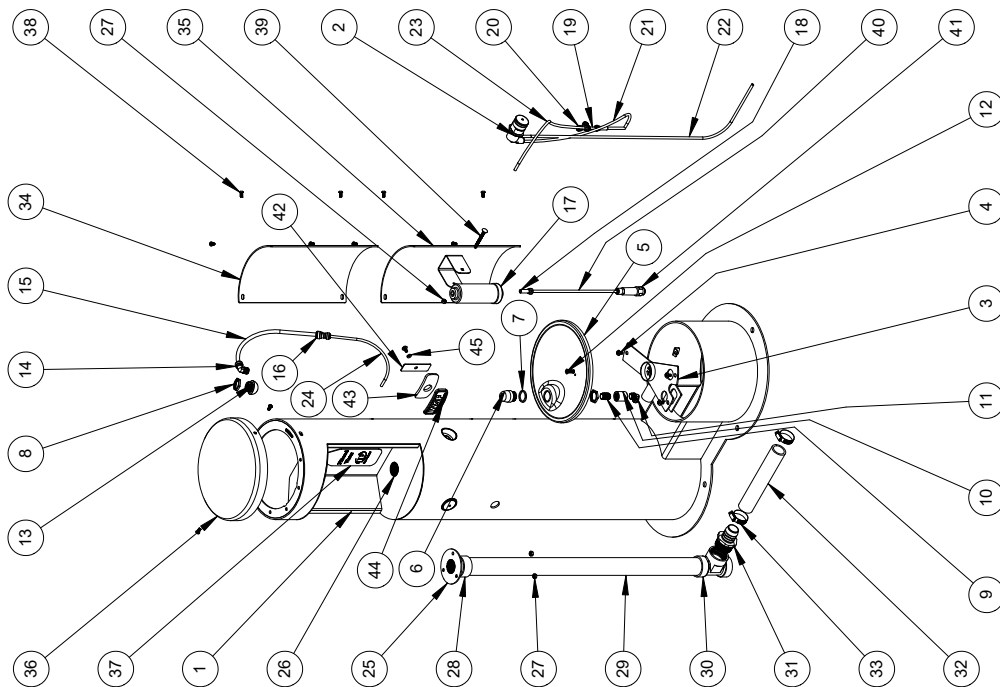
# Parts List and Exploded-view Drawing- CWBF-1-HF-FO

| ITEM # | PART #      | DESCRIPTION                                        | QTY. |
|--------|-------------|----------------------------------------------------|------|
| 1      | 380063      | LIGATURE-RESISTANT BOTTLE FILLER BUBBLER           | 1    |
| 2      | 600612N     | HEX NUT, 3/4"-14 NPSM                              | 1    |
| 3      | 320575      | ELBOW, 3/8" NPTF MALE X 1/4" TUBE PUSH-TO-CONNECT  | 1    |
| 4      | 4500NSS     | SCREW, SEC(BH), S/S, 1/4-20 X 1/2"                 | 12   |
| 5      | S200141     | ACCESS COVER FOR CWBF-1, 6.125" X 8.5"             | 1    |
| 6      | 600635N     | CARRIAGE BOLT, 1/4"-20 X 2-1/2"                    | 1    |
| 7      | 600613N     | HEX NUT, 1/4"-20, STAINLESS STEEL                  | 6    |
| 8      | S200152     | ACCESS COVER ASSY FOR CWBF-1                       | 1    |
| 9      | 320573      | REDUCER, 3/8" STEM X 1/4" TUBE                     | 1    |
| 10     | 980440      | CHARCOAL FILTER, 3/8" TUBING CONNECTIONS           | 1    |
| 11     | 320279-24   | PVC PIPE, 1 1/4" SCHED 40 X 24" LONG               | 1    |
| 12     | 320283      | PVC THREADED ADAPTER, 1 1/4"                       | 1    |
| 13     | S200456     | WELDED BODY ASSEMBLY                               | 1    |
| 14     | S200129     | BODY CAP, Ø8.625"                                  | 1    |
| 15     | S200035     | PLACARD FOR CWBF SERIES                            | 1    |
| 21     | 600471-20.5 | TUBING, 1/4" O.D. X 0.17" I.D. X 20-1/2" LONG      | 1    |
| 22     | 800144      | SCREW, PHILLIP (TH), S/S, 1/4-20 X 1/2" TRUSS HEAD | 1    |
| 23     | S200442     | WSF PLACARD WASHER                                 | 1    |
| 24     | 800111      | WASHER, SPLIT LOCK ZINC 1/4in, S/S                 | 1    |
| 25     | 701493      | GASKET, WSF PLACARD                                | 1    |
| 26     | 701494      | WSF PLACARD, STAINLESS STEEL, 1.75X3.75            | 1    |
| 27     | 600390      | VALVE ASSEMBLY - SELF CLOSING - FOOT ACTIVATION    | 1    |
| 28     | S200475     | COVER WELDMENT - REMOVABLE - FOOT ACTIVATION       | 1    |
| 29     | S200462     | BRIDGE - FOOT ACTIVATION                           | 1    |
| 33     | 4502SSN     | SCREW, 1/4-20 X 3/4 SECURITY SCREW (BH)            | 4    |
| 34     | 600471-53   | TUBING, 1/4" O.D. X 0.17" I.D. X 53" LONG          | 1    |
| 35     | S200116     | BOTTLE FILLER DRAIN ASSY                           | 1    |



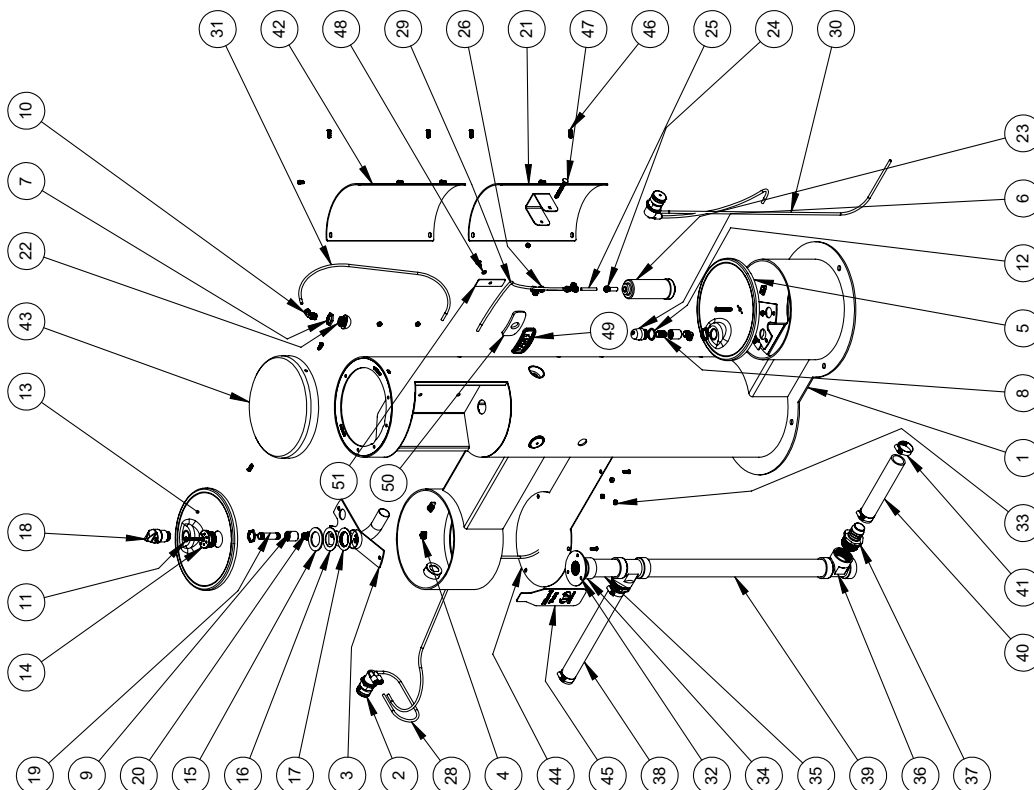
# CWBF-2-PET

| ITEM # | PART #      | DESCRIPTION                                            | QTY. |
|--------|-------------|--------------------------------------------------------|------|
| 1      | S200188     | WELDED BODY ASSY - CWBF-2-RPB-PET                      | 1    |
| 2      | S200315     | VALVE ASSEMBLY, ADJUSTABLE PUSHBUTTON                  | 2    |
| 3      | S200034     | RECEPTOR SUPPORT ASSEMBLY w/DRAIN ELBOW                | 1    |
| 4      | 800144      | SCREW, PHILLIP (TH), S/S, 1/4-20 X 1/2" TRUSS HEAD     | 4    |
| 5      | S200237     | PET BOWL - 1-3/4" DEPTH                                | 1    |
| 6      | 3800256     | (PBB) 30 DEG. PET BOWL BUBBLER                         | 1    |
| 7      | S200090     | SPACER, BUBBLER MOUNTING                               | 1    |
| 8      | 600612N     | HEXNUT, 3/4"-14 NPSM                                   | 2    |
| 9      | 320478      | NIPPLE 3/8" X 1.0" T304 SS                             | 1    |
| 10     | 320091      | COUPLING, 3/8" FPT STAINLESS STEEL                     | 1    |
| 11     | 3200575     | ELBOW, 3/8" NPTF MALE X 1/4" TUBE PUSH-TO-CONNECT      | 1    |
| 12     | 45005SN     | 1/4"-20 x 2" FH SECURITY SCREW                         | 1    |
| 13     | 380063      | LIGATURE-RESISTANT BOTTLE FILLER BUBBLER               | 1    |
| 14     | 320401      | ELBOW, 3/8" NPTF MALE X 3/8" TUBE PUSH-TO-CONNECT      | 1    |
| 15     | 600523-12A  | TUBING, 1/4" OD X 0.17" ID X 24" LONG                  | 1    |
| 16     | 320448      | TUBE FITTING, PTC UNION, 3/8IN                         | 1    |
| 17     | 980440      | CHARCOAL FILTER, 3/8" TUBING CONNECTIONS               | 1    |
| 18     | 320573      | REDUCER, 3/8" STEM X 1/4" TUBE                         | 2    |
| 19     | 600471      | TUBING, 1/4" O.D. X 0.17" I.D.                         | 1    |
| 20     | 320438      | TEE, 1/4" PUSH-TO-CONNECT                              | 1    |
| 21     | 600471-32   | TUBING, 1/4" OD X 0.17" ID X 32" LONG                  | 1    |
| 22     | 600471-35   | TUBING 1/4"OD x .170"ID X 33" LONG                     | 1    |
| 23     | 600471-24D  | TUBING, 1/4" OD X 0.17" ID X 32" LONG                  | 1    |
| 24     | 600471-12A  | TUBING, 1/4" OD X 0.17" ID X 24" LONG                  | 1    |
| 25     | S200116     | BOTTLE FILLER DRAIN ASSY                               | 1    |
| 26     | S200120     | DRAIN SCREEN FOR CWBF-2 / CWBF-3                       | 1    |
| 27     | 600613N     | HEX NUT, 1/4"-20, STAINLESS STEEL                      | 6    |
| 28     | 320284      | PVC THREADED ADAPTER, 1-1/2"                           | 1    |
| 29     | 320280-31.5 | PVC PIPE, 1-1/2" SCHED. 40 X 32-3/8" LONG              | 1    |
| 30     | 320282      | CLEANOUT TEE, 1-1/2" PVC                               | 1    |
| 31     | 320286      | BARB ADAPTER, 1-1/2" MIP X 1-1/4" PVC                  | 1    |
| 32     | 320288      | NYLABRAID REINFORCED VINYL TUBING, 1-1/4" X 8.75" LONG | 1    |
| 33     | 980017      | WORM GEAR PIPE CLAMP, 2"                               | 2    |
| 34     | S200076     | ACCESS COVER - 14" X 8-1/2"                            | 1    |
| 35     | S200163     | FILTER ACCESS COVER ASSY FOR CWBF-2 / CWBF-3           | 1    |
| 36     | S200133     | BOTTLE FILLER CAP, 10-3/4"                             | 1    |
| 37     | S200035     | PLACARD FOR CWBF SERIES                                | 1    |
| 38     | 4500NS      | SCREW, SEC(BH), S/S, 1/4-20 x 1/2"                     | 10   |
| 39     | 600635N     | CARRIAGE BOLT, 1/4"-20 X 2-1/2"                        | 1    |
| 40     | 600471-12   | TUBING, 1/4" O.D. X 0.17" ID. X 12" LONG               | 1    |
| 41     | 980632      | STRAINER, IN-LINE, 1/4 TO 3/8 PRESS LOCK               | 1    |
| 42     | S200442     | WSF PLACARD WASHER                                     | 1    |
| 43     | 701493      | GASKET, WSF PLACARD                                    | 1    |
| 44     | 701494      | WSF PLACARD, STAINLESS STEEL, 1.75X3.75                | 1    |
| 45     | 800111      | WASHER, SPI IT, LOCK ZINC 1/4in. S/S                   | 1    |

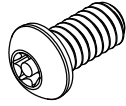


# Parts List and Exploded-view Drawing- CWBF-3-HC-PET

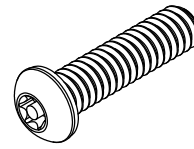
| ITEM # | PART #        | DESCRIPTION                                            | QTY. |
|--------|---------------|--------------------------------------------------------|------|
| 1      | S200166       | WELDED BODY - CWBF-3-RPB-HC-PET                        | 1    |
| 2      | 600315        | VALVE ASSEMBLY, ADJUSTABLE PUSHBUTTON                  | 3    |
| 3      | S200034       | RECEPTOR SUPPORT ASSEMBLY w/DRAIN ELBOW                | 2    |
| 4      | 800144        | SCREW, PHILLIP (TH), SS, 1/4-20 X 1/2" TRUSS HEAD      | 7    |
| 5      | S200237       | PET BOWL - 1-3/4" DEPTH                                | 1    |
| 6      | 380066        | (PBB) 30 DEG. PET BOWL BUBBLER                         | 1    |
| 7      | 600612N       | HEX NUT, 3/4" X 1.0" NPSM                              | 3    |
| 8      | 320478        | NIPPLE, 3/8" X 1.0" T304 SS                            | 1    |
| 9      | 320091        | COUPLING, 3/8" FPT STAINLESS STEEL                     | 2    |
| 10     | 320575        | ELBOW, 3/8" NPTF MALE X 1/4" TUBE PUSH-TO-CONNECT      | 2    |
| 11     | 45085SN       | 1/4"-20 X 2" FH SECURITY SCREW                         | 2    |
| 12     | S200230       | SPACER, BUBBLER MOUNTING                               | 1    |
| 13     | S200033       | ADA BOWL, 40-DEG, 1-3/4" DEPTH                         | 1    |
| 14     | 380001        | DRAIN, ODF, 2" O.D., STAINLESS STEEL                   | 1    |
| 15     | 380274        | GASKET, 1-1/2" DRAIN                                   | 1    |
| 16     | 380273        | DRAIN WASHER, 1-5/8"                                   | 1    |
| 17     | 600043        | NUT, 1 5/8"-12 THD FOR 1-1/2" DRAIN                    | 1    |
| 18     | 600585        | BUBBLER, DRINKING FOUNT, DECK MOUNTED, COMMERCIAL      | 1    |
| 19     | 320489        | NIPPLE, 3/8" NPT X 2.5" LONG                           | 1    |
| 20     | 320437        | ADAPTER, 3/8" NPTF MALE X 1/4" TUBE PUSH-TO-CONNECT    | 1    |
| 21     | S200163       | FILTER ACCESS COVER ASSY FOR CWBF-2 / CWBF-3           | 1    |
| 22     | 380063        | LIGA TURE-RESISTANT BOTTLE FILLER BUBBLER              | 1    |
| 23     | 980440        | CHARCOAL FILTER, 3/8" TUBING CONNECTIONS               | 1    |
| 24     | 320573        | REDUCER, 3/8" STEM X 1/4" TUBE                         | 1    |
| 25     | 600471        | TUBING, 1/4" O.D. X 0.17" ID                           | 2    |
| 26     | 320438        | TEE, 1/4" PUSH-TO-CONNECT                              | 2    |
| 27     | 600471-48     | TUBING, 1/4" OD X 0.17" ID X 48" LONG                  | 1    |
| 28     | 600471        | TUBING, 1/4" OD X 0.17" ID X 18" LONG                  | 1    |
| 29     | 600471-32     | TUBING, 1/4" OD X 0.17" ID X 32" LONG                  | 2    |
| 30     | 600471-35     | TUBING, 1/4" OD X 0.17" ID X 33" LONG                  | 1    |
| 31     | 600471-24B    | TUBING, 1/4" OD X 0.17" ID X 24" LONG                  | 1    |
| 32     | S200166       | BOTTLE FILLER DRAIN ASSY                               | 1    |
| 33     | 600613N       | HEX NUT, 1/4"-20, STAINLESS STEEL                      | 6    |
| 34     | 320284        | PVC THREADED ADAPTER, 1-1/2"                           | 1    |
| 35     | 320280-4.75   | PVC PIPE, 1-1/2" SCHED. 40 X 4-3/4" LONG               | 1    |
| 36     | 320282        | CLEANOUT TEE, 1-1/2" PVC                               | 2    |
| 37     | 320286        | BARB ADAPTER, 1-1/2" MIP X 1-1/4" PVC                  | 2    |
| 38     | 320288-14     | NYLABRAID REINFORCED VINYL TUBING, 1-1/4" X 14" LONG   | 1    |
| 39     | 320280-24.625 | PVC PIPE, 1-1/2" SCHED. 40 X 24-5/8" LONG              | 1    |
| 40     | 320288        | NYLABRAID REINFORCED VINYL TUBING, 1-1/4" X 8.75" LONG | 1    |
| 41     | 980617        | WORM GEAR PIPE CLAMP, 2"                               | 4    |
| 42     | S200076       | ACCESS COVER - 14" X 8-1/2"                            | 1    |
| 43     | S200113       | BOTTLE FILLER CAP, 10-3/4"                             | 1    |
| 44     | S200075       | OUTER BOTTOM COVER - ADA / CHILD                       | 1    |
| 45     | S200035       | PLACARD FOR CWBF SERIES                                | 1    |
| 46     | 45025SN       | SCREW, 1/4-20 X 3/4 SECURITY SCREW (BH)                | 15   |
| 47     | 600635N       | CARRIAGE BOLT, 1/4"-20 X 2-1/2"                        | 1    |
| 48     | 800111        | WASHER, SPLIT LOCK ZINC 14in, SS                       | 1    |
| 49     | 701494        | WSF PLACARD, STAINLESS STEEL, 1.75X3.75                | 1    |
| 50     | 701493        | GASKET, WSF PLACARD                                    | 1    |
| 51     | S200442       | WSF PLACARD WASHER                                     | 1    |



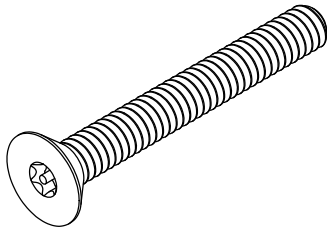
# Hardware Identification Chart



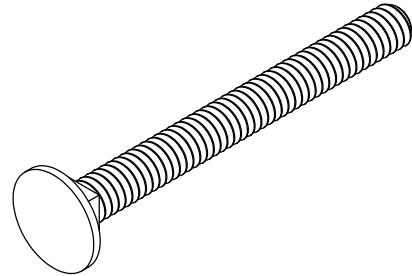
1/4-20 x 1/2"  
SECURITY SCREW  
4500NSS



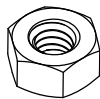
1/4-20 x 1"  
SECURITY SCREW  
800114



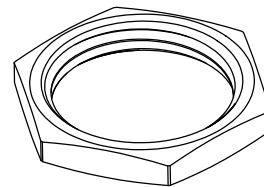
1/4"-20 x 2"  
FLAT HEAD SECURITY SCREW  
4509SSN



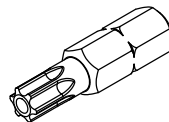
1/4"-20 x 2-1/2"  
CARRIAGE BOLT  
600635N



1/4"-20 HEX NUT  
600613N



3/4" NPT  
BRASS LOCKNUT  
600612N



T27  
1/4" PINNED TORX BIT  
800115

# **Installation Instructions**

## **Step 1: Fixture Installation**

***Note: the WODF outdoor drinking fountain is to be mounted on a flat, level surface (concrete or otherwise) with an adequate support structure.***

***Note: refer to Rough-In Dimensions for locating plumbing connections.***

- 1.) Install service shut-off valve in water supply line (valve not furnished).
- 2.) Locate and install bottle filler using 1/2"-13 x 4" stainless steel concrete anchors (anchors not furnished).
- 3.) As noted previously, flush the water supply line with clean drinking water before making final connections to the drinking fountain.
- 4.) Connect water supply line to inline strainer inside drinking fountain using 3/8" plastic tubing (extra tubing not furnished). Push tube straight into fitting on filter about 3/4" until it reaches a positive stop. Water supply connection must comply with local codes.
- 5.) Connect the drain line to drainage system. Drain is to be 1-1/2" IPS minimum to a porous gravel fill or main sewer line located below frost line. Installer to provide waste trap downstream of drain connection. Drain and waste trap must comply with local codes.
- 6.) Turn on water supply and check both the water supply lines and drain lines for leaks.\*

\*If you have a Push Button model fountain or bottle filler, go to **Step 2A**

If you have a Battery Operated Infrared Sensor model bottle filler, go to **Step 2B**

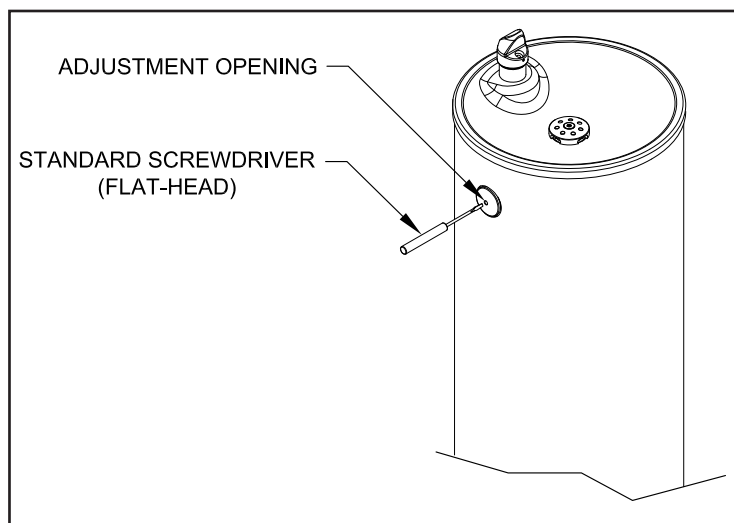
If you have a Foot Operated model bottle filler, go to **Step 2C**

## **Installation Instructions (cont.)**

### **Step 2A: Adjusting Drinking Fountain Flow**

- 1.) Insert a standard flat-head screwdriver into adjustment opening on face of pushbutton, as shown.
- 2.) Rotate screwdriver to adjust until desired flow is achieved:

Rotate clockwise to increase flow.  
Rotate counterclockwise to decrease flow.



(WODF-1 shown)

### **Step 2B: Battery Operated Infrared Sensor Startup**

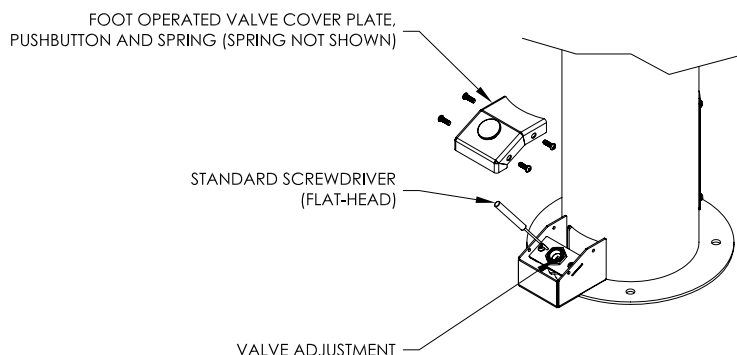
- 1.) Remove the bottle filler body cap on the top of the fixture.
- 2.) Open the top of the battery box and insert 4X batteries. Replace the battery box, and check that all sensor, battery box, and valve connections are secure.
- 3.) Replace the body cap once the IR sensor has completed the start-up mode.

### **Step 2C: Foot Operated Adjusting Flow**

- 1.) Remove the foot plate cover, pushbutton and spring from the base of the fixture.
- 2.) Using a standard flat-head screwdriver, adjust as shown until desired flow is achieved:

Rotate clockwise to increase flow.  
Rotate counterclockwise to decrease flow.

- 3.) Replace the foot plate cover, pushbutton and spring from onto base of the fixture.



# **Care and Maintenance**

## **Unit Care**

Willoughby Stainless Fountains' CWBF Outdoor Bottle Fillers are not freeze resistant. The unit should be disconnected or shut off from the water supply and drained during the colder months. For more information, refer to the rough-in detail.

The charcoal filter has a limited lifetime and should be replaced every 6-12 months, depending on water quality. New charcoal filters can be ordered using Willoughby Part No. 980440.

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## **Stainless Steel Care**

Stainless Steels are basically alloys of iron and chromium and are corrosion resistant. Stainless steel has a bright surface that is easy to clean and is free from oxides. Therefore, cleaning of stainless steel is relatively simple and easy if done on a regular basis.

Frequency of cleaning should depend on the rate at which the fixture becomes dirty. Remember that fresh (soft) deposits of all kinds are relatively easy to remove, while removing older (hard) deposits are much more difficult. Establish a cleaning SCHEDULE.

Routine cleaning should involve ordinary soap or detergent and water, applied with a sponge, brush or cloth. Baking soda, borax or any of several non-abrasive commercial cleansing agents can help hasten the cleaning action. After scrubbing, rinse THOROUGHLY and wipe dry.

DO NOT use common steel wool, scouring pads, scrapers, wire brushes, files or other steel tools to clean stainless steel. Such items will scratch the surface or leave small particles of iron imbedded in the surface, which will eventually rust and stain the surface - even appearing as if the stainless itself was rusting.

Certain chemical compounds, if used on stainless steel, can give the appearance of rust and if allowed to stand for long periods of time, can pit the surface of even stainless. Products containing hydrochloric acid, muriatic acid or potassium hydrochloride can ruin the surface.

## **Troubleshooting- Fixture Plumbing**

- I. Insufficient Flow
  - A. Ensure the service shut-off valve is fully open (provided by installer).
  - B. Ensure water supply is within the normal operating range of 40-60 psi.
    - 1. If pressure is too low, flow can be drastically reduced.
    - 2. If pressure is too high, the strainer and/or valve may have been damaged.
    - 3. The unit is rated for a maximum range of 30-105 psi.
  - C. Inspect the unit's valve for damage, and replace if necessary.
  - D. Inspect the inline strainer for damage and/or clogging, and clean or replace as necessary.
  - E. Check all fittings and tubing for damage and leaks. Replace components as necessary.
- II. Unit has problems draining
  - A. Remove and clean the drain screen.
  - B. Remove any debris from the drain.
  - C. Remove any debris from the PVC pipe and fittings.
  - D. Check and clear the waste trap (provided by installer).

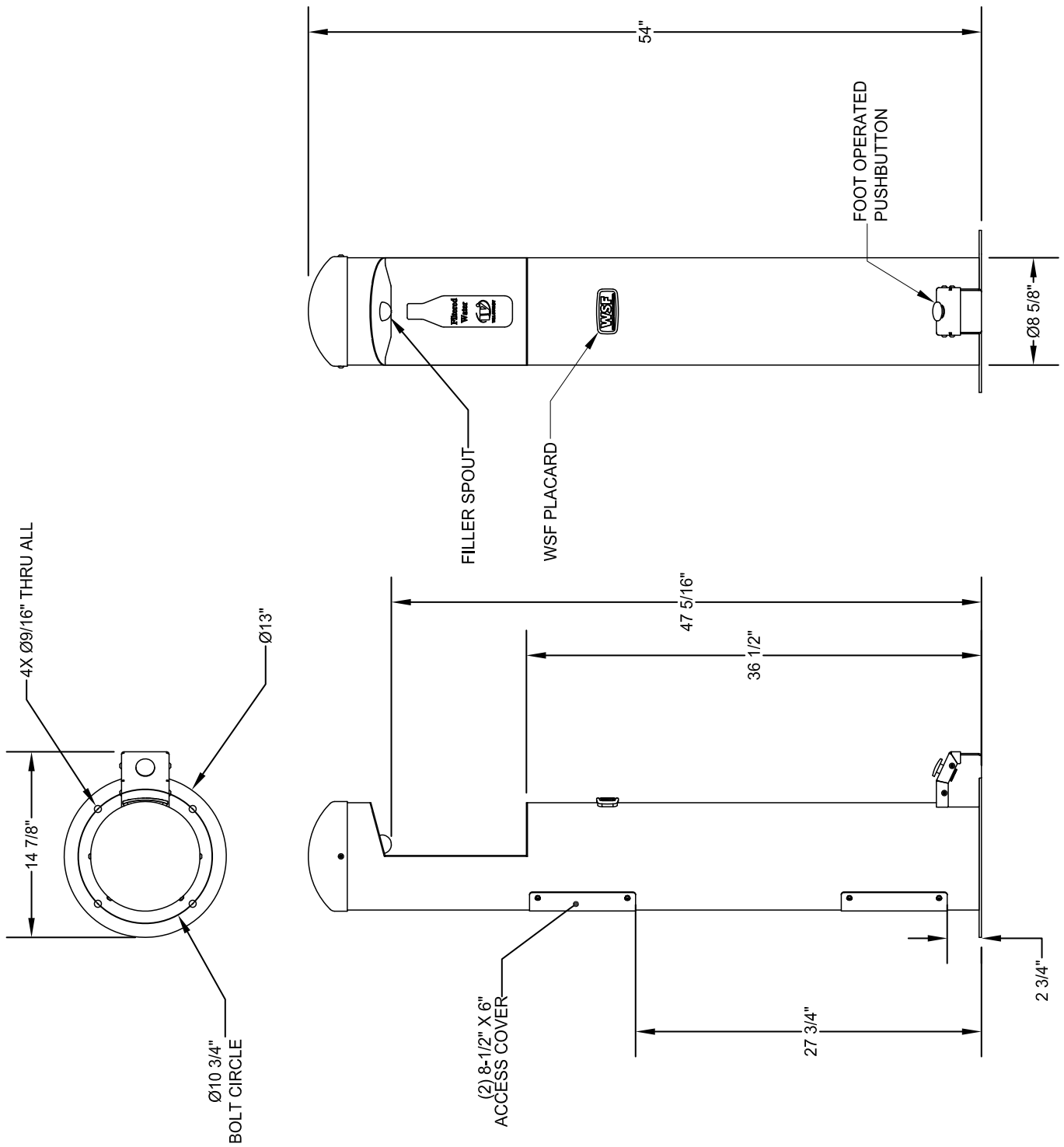
## **Troubleshooting - Infrared Sensor**

- I. Bottle filler does not function (red light does not appear when user steps in front of sensor)
  - A. No power to sensor. Make certain that power is on. Check battery power levels, contacts and connections. Repair or replace as necessary.
  - B. Willoughby IR Sensor not operating. Replace Willoughby IR Sensor (Part# 380188-1)
- II. Bottle filler does not function (red light appears when user steps in front of sensor and solenoid does not click)
  - A. Debris in solenoid; disassemble, clean, and flush.
  - B. Solenoid not wired correctly; check solenoid connections.
  - C. Solenoid problem; replace solenoid.
- III. No water when activated (valve clicks)
  - A. Make certain that water is turned on.
  - B. Valve clogged. Clean or replace filter.
- IV. Very low flow or slow dribble
  - A. Check supply stop(s); open if closed.
  - B. Debris in filter; remove, clean, and reinstall.
  - C. Debris in aerator or spray head; remove, clean and reinstall.
  - D. Disassemble solenoid; clean and flush.
- V. Continues to run (with power on and red light flashing)
  - A. Non-permanent target in range after user leaves. Remove non-permanent target. If this target is a new permanent target (i.e., a new wall or partition), remove batteries for fifteen (15) seconds. Turn power back on and let the sensor complete start-up mode.
  - B. Sensor failure; replace sensor.
- VI. Continues to run (even with power disconnected)
  - A. Solenoid valve installed backwards.
  - B. Debris in solenoid, won't close properly; remove operator and clean. Reassemble in the same manner.

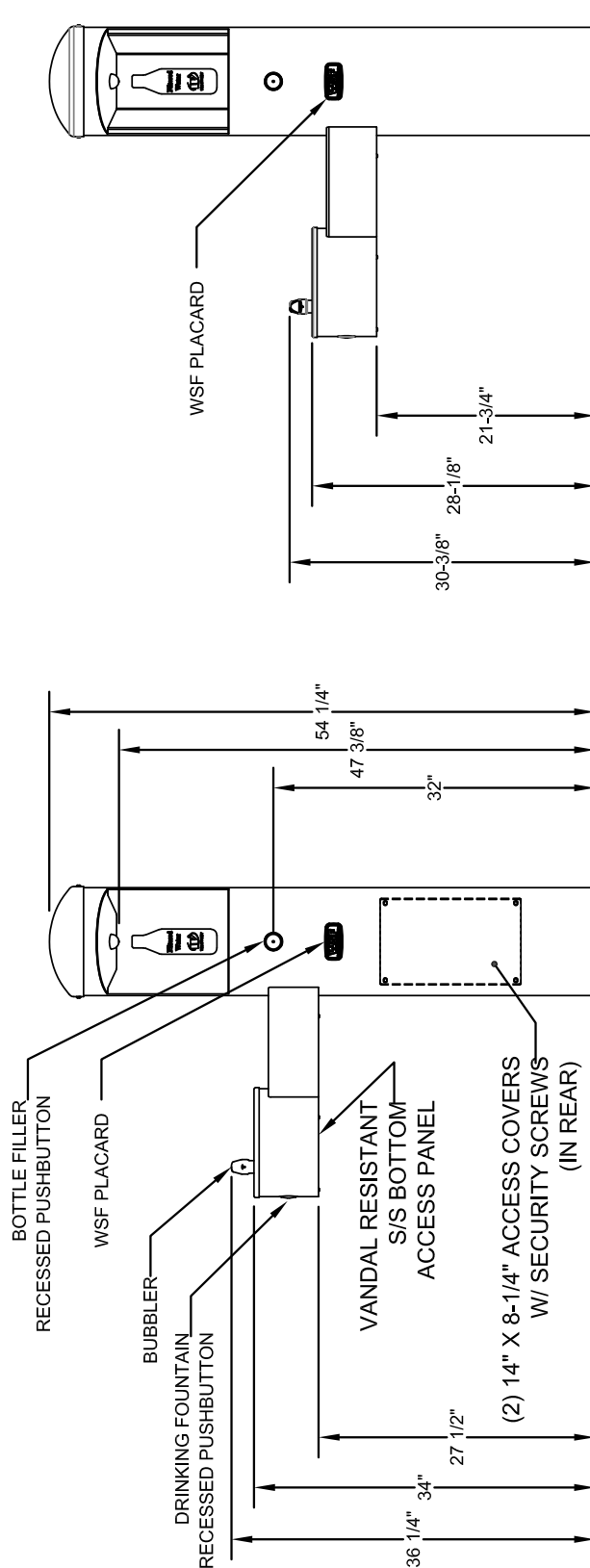
Technical drawing of a circular flange. The drawing shows a top view of a circular component with concentric circles. The outermost circle is labeled  $\varnothing 13"$ . The innermost circle is labeled  $\varnothing 10 \frac{3}{4}$  BOLT CIRCLE. The flange has four bolt holes, each labeled 4X  $\varnothing 9/16$  THRU ALL. The bolt holes are arranged in a circle.



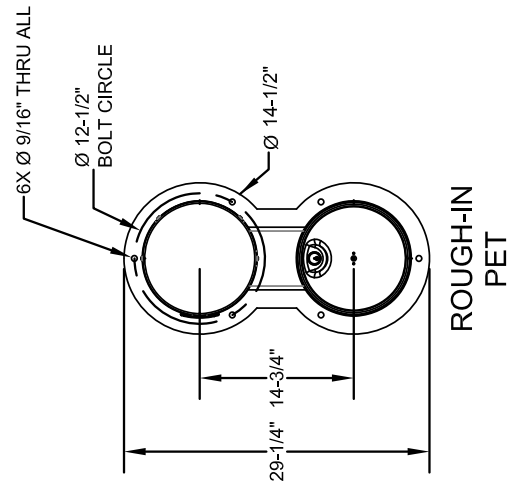
**DRAWING: Physical Dimensions CWBF-1-HF-FO**



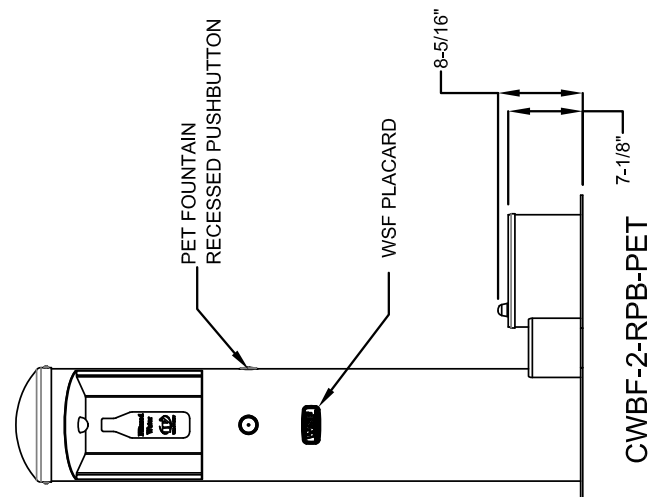
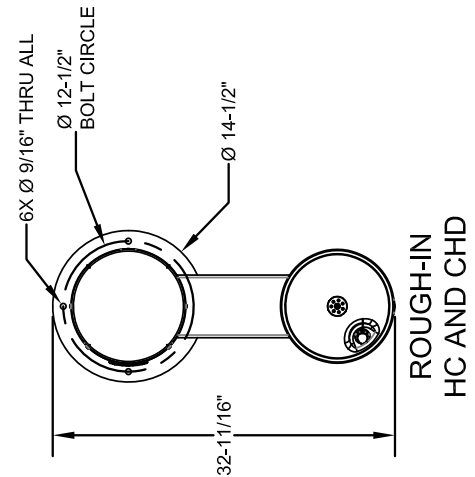
**DRAWING: Physical Dimensions CWBF-2**



**CWBF-2-RPB-CHD**

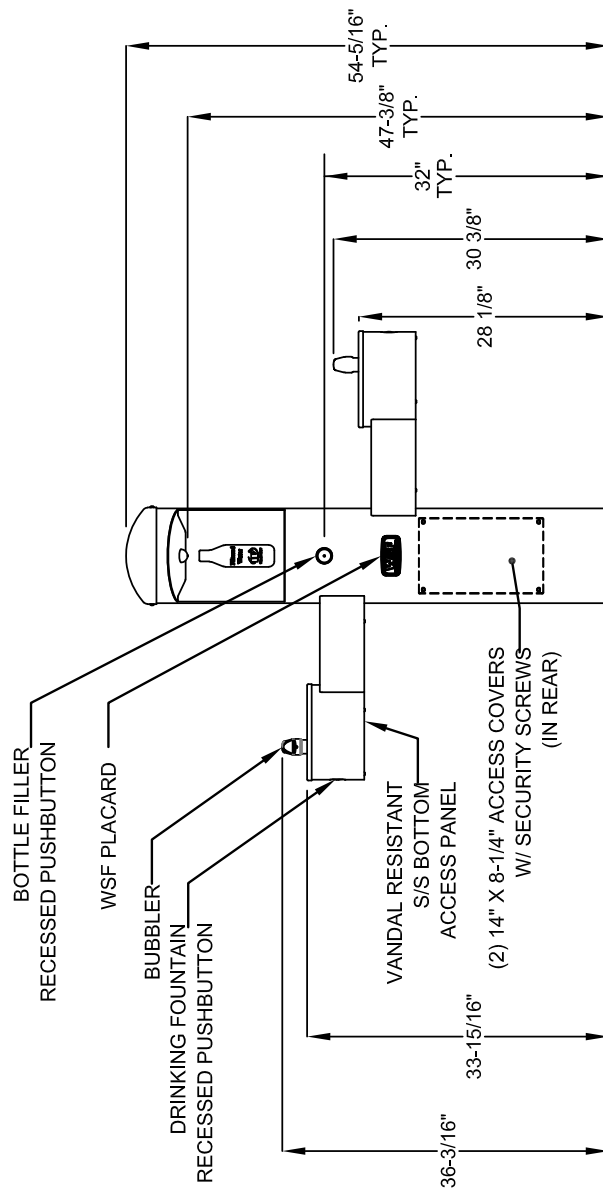


**CWBF-2-RPB-HC**

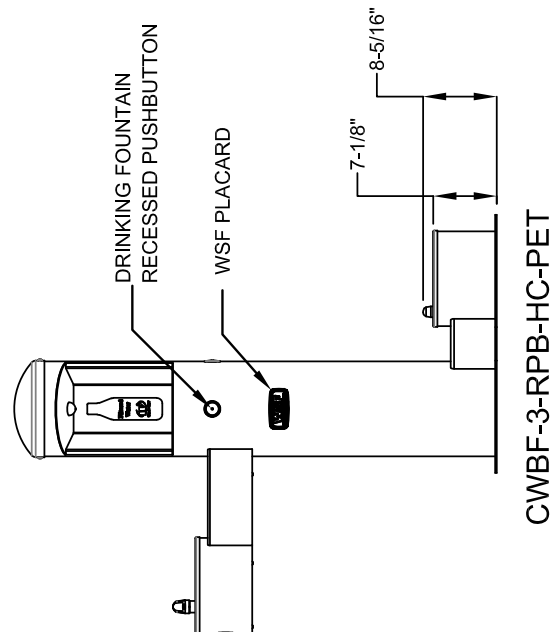


**CWBF-2-RPB-PET**

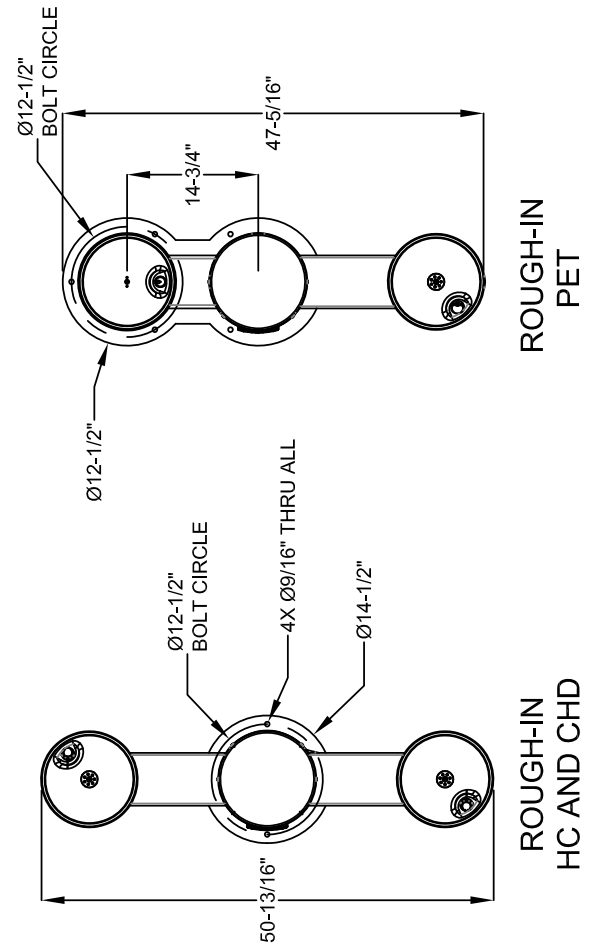
**DRAWING: Physical Dimensions**

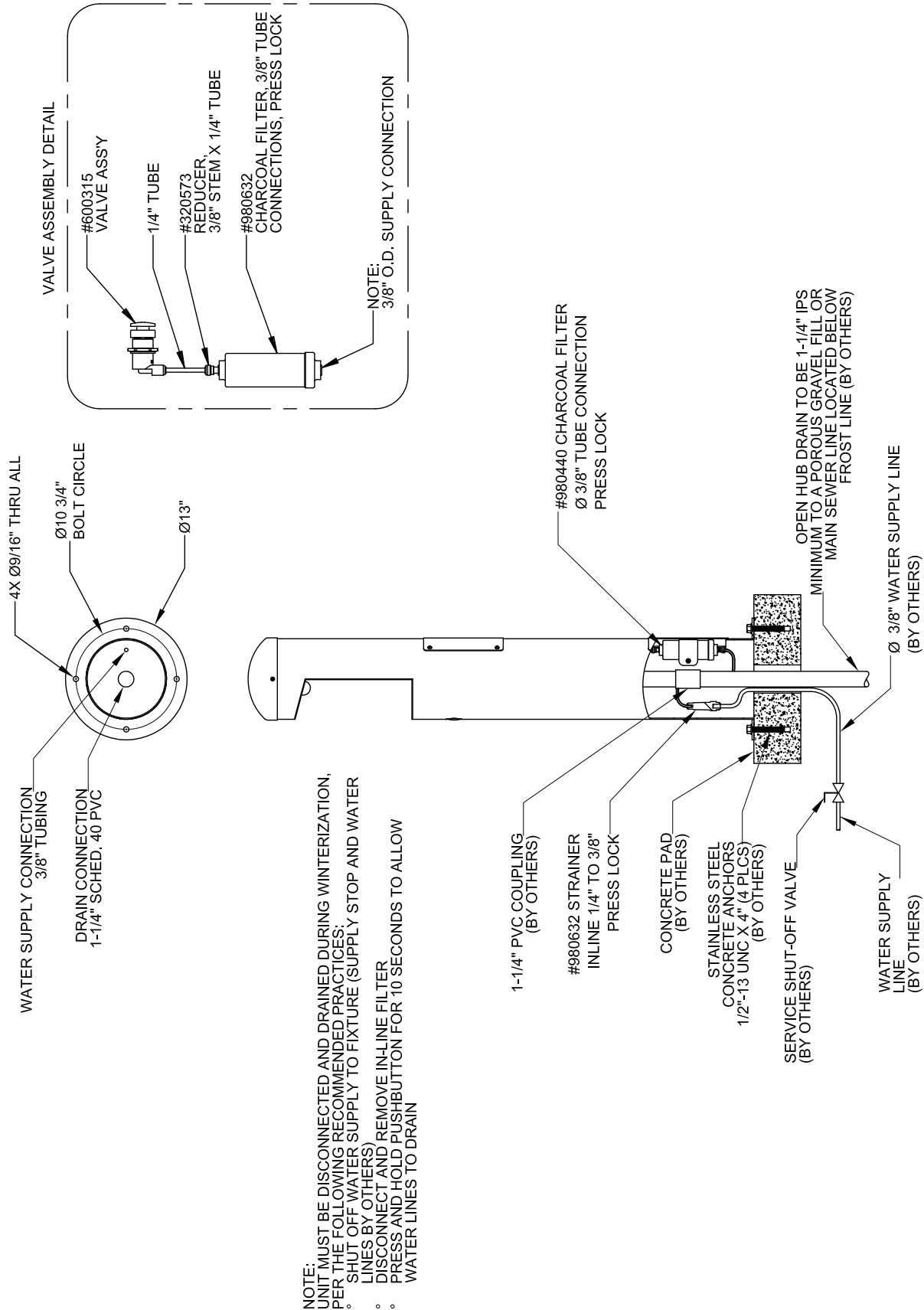


**CWBF-3-RPB-HC-CHD**

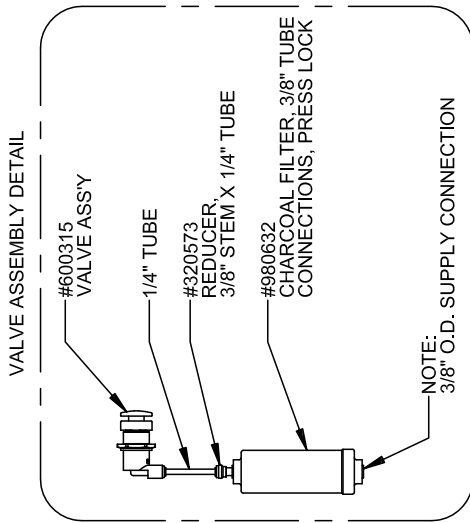
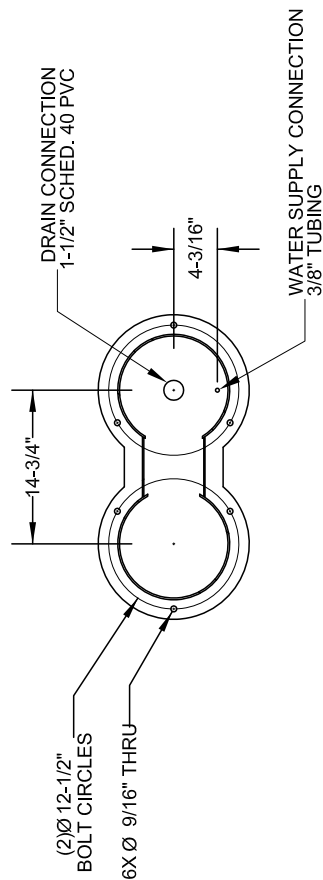


**CWBF-3-RPB-HC-PET**

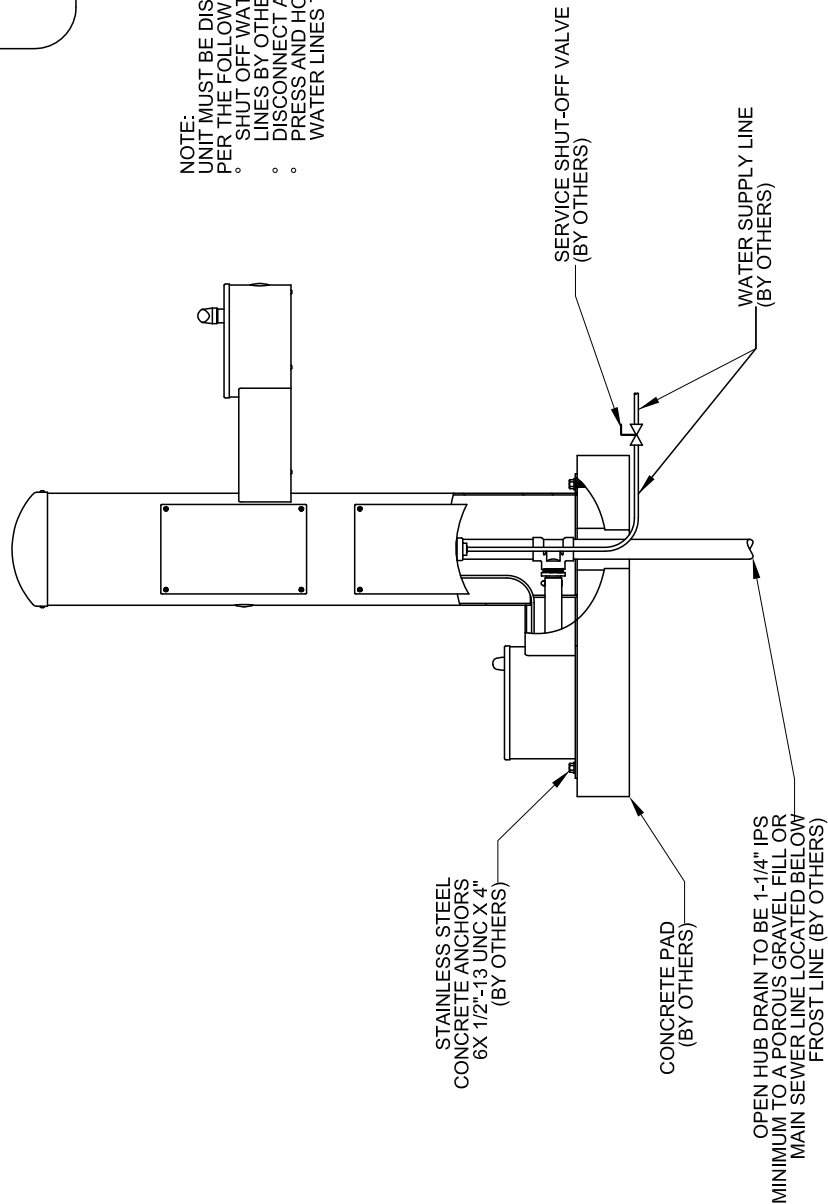




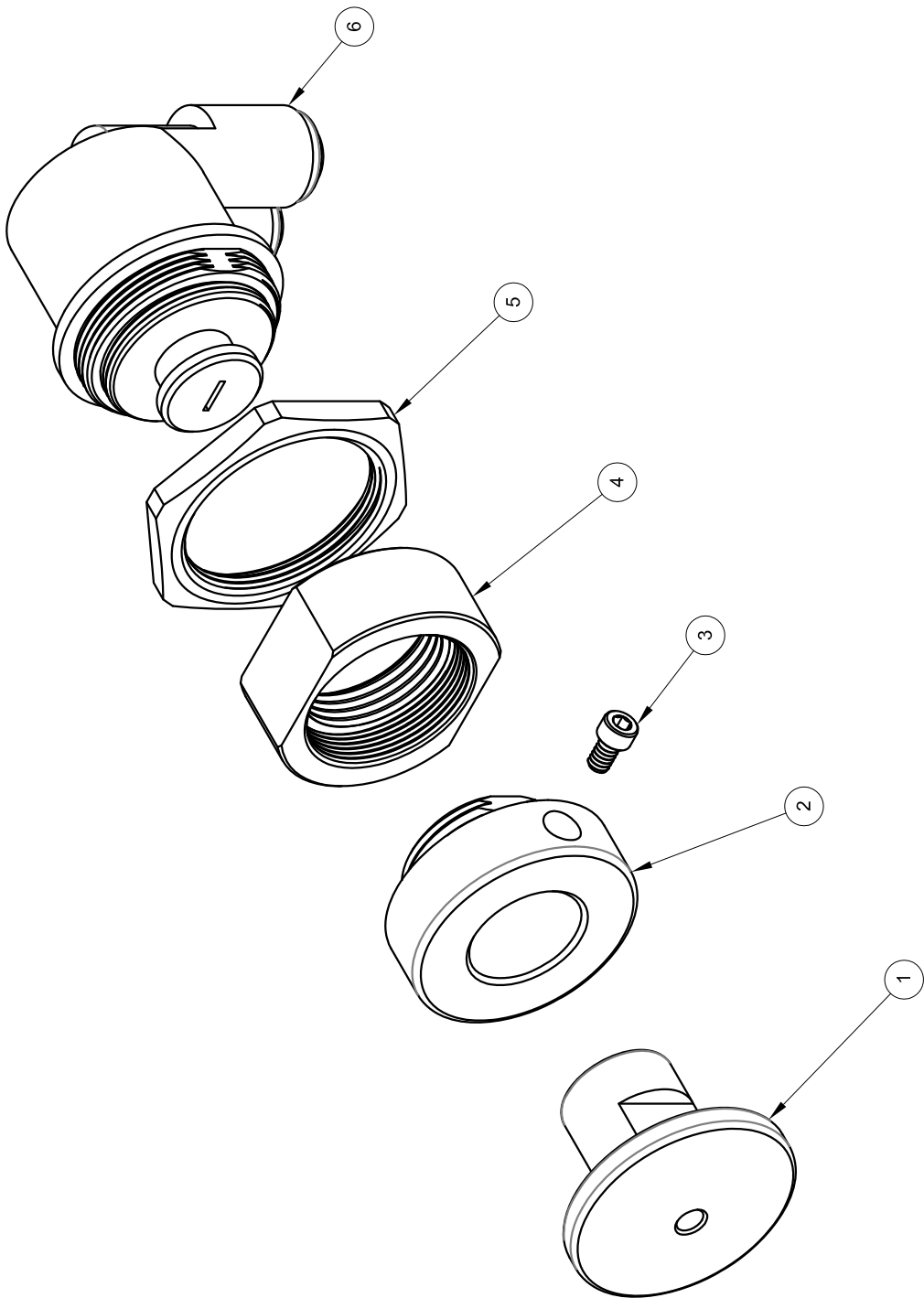
**DRAWING: Rough-in Dimensions**



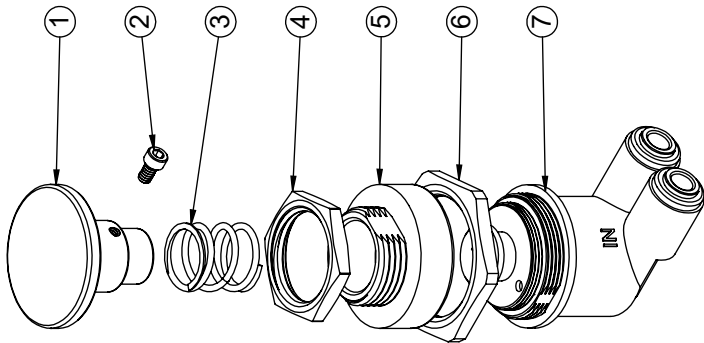
NOTE:  
UNIT MUST BE DISCONNECTED AND DRAINED DURING WINTERIZATION,  
PER THE FOLLOWING RECOMMENDED PRACTICES:  
• SHUT OFF WATER SUPPLY TO FIXTURE (SUPPLY STOP AND WATER  
LINES BY OTHERS)  
• DISCONNECT AND REMOVE IN-LINE STRAINER/FILTER  
• PRESS AND HOLD PUSHBUTTON FOR 10 SECONDS TO ALLOW  
WATER LINES TO DRAIN



DRAWING: Push Button Detail



| ITEM # | PART # | DESCRIPTION                                         | QTY. |
|--------|--------|-----------------------------------------------------|------|
| 1      | 380110 | PUSH PIN, ADJUSTABLE PUSHBUTTON VALVE               | 1    |
| 2      | 380111 | SLEEVE, ADJUSTABLE PUSHBUTTON VALVE                 | 1    |
| 3      | 800157 | 6-32 x 1/4" SH CAP SCREW                            | 1    |
| 4      | 380062 | SLEEVE, ADAPTER TO ELKAY PLASTIC SELF-CLOSING VALVE | 1    |
| 5      | 600286 | NUT, CARTRIDGE MOUNTING                             | 1    |
| 6      | 600285 | SELF-CLOSING CARTRIDGE, 1.0 GPM                     | 1    |



| ITEM # | PART #  | DESCRIPTION                                           | QTY. |
|--------|---------|-------------------------------------------------------|------|
| 1      | 380113  | PUSH PIN FOR PET FOUNTAIN ADJUSTABLE PUSHBUTTON VALVE | 1    |
| 2      | 800157  | 6-32 x 1/4" SH CAP SCREW                              | 1    |
| 3      | 980142  | SPRING FOR PET FOUNTAIN ADJUSTABLE PUSHBUTTON VALVE   | 1    |
| 4      | 600612N | HEXNUT, 3/4"-14 NPSM                                  | 1    |
| 5      | 380112  | SLEEVE FOR PET FOUNTAIN ADJUSTABLE PUSHBUTTON VALVE   | 1    |
| 6      | 600286  | NUT, CARTRIDGE MOUNTING                               | 1    |
| 7      | 600285  | SELF-CLOSING CARTRIDGE, 1.0 GPM                       | 1    |

DRAWING: Foot Operated Push Button Detail

## **Warranty**

Willoughby Industries, Inc. warrants to commercial and institutional purchasers only that each unit will be free from defects in workmanship and materials under normal use and service upon the following terms and conditions for a period of one (1) year from date of shipment.

This warranty excludes any defects in workmanship or materials under normal use for the charcoal filter, Willoughby Part No. 980440.

This warranty does not cover installation or any other labor charges and does not apply to any components damaged by accident, abuse, improper installation or improper maintenance. This warranty does not cover any installation that did not comply with national, state and local building, plumbing or electrical codes. The warranty is limited to replacing or repairing at manufacturer's option, transportation charges prepaid by the purchaser, any component or part which upon our inspection shall be deemed as defective within the limitations of this warranty. The replacement or repair of defective units as stated in this warranty shall constitute the sole remedy of the purchaser and the sole liability of Willoughby Industries, Inc. Willoughby Industries, Inc. shall not otherwise be liable under any indirect damages caused by defects in the repair or replacement thereof.

This warranty only extends to commercial and industrial purchasers and does not extend to any others, including consumer customers of commercial institutional purchasers. This warranty is in lieu of all other warranties, expressed or implied, including implied warranty of merchantability or fitness for a particular purpose or otherwise.