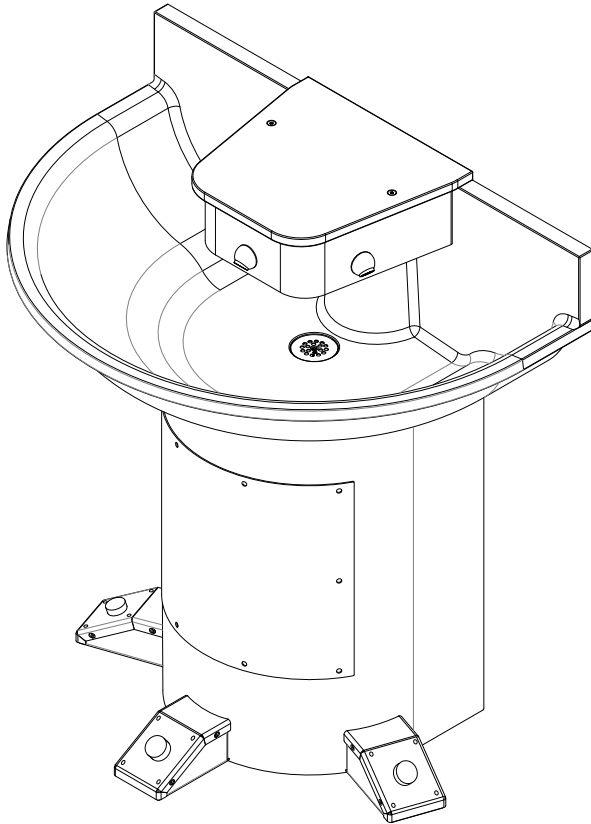


Installation & Operation Manual

WAF-3603-FLR-FO

Aquaount® 36" 180° Solid Surface Washfountain Pneumatic Foot Control



WAF-3603-FLR-FO

Table of Contents

Pre-Installation Information.....	2
Physical Dimensions	3
Required Installation Supplies	4
Parts List.....	5
Hardware Identification Chart.....	6
Installation Instructions	
Step 1: Mounting Backplate	7
Step 2: Mounting Basin.....	8
Step 3: Drain Assembly	9
Step 4: Connections for Pneumatic Foot Control Actuators.....	10
Step 5: Final Assembly	11
JACO Fitting Instructions.....	12
Mixing Valve Instructions	13
Self-closing Pneumatic Valve Operation	15
Liquid Soap Specification and Maintenance.....	16
Care and Maintenance	17
Troubleshooting	
Self-closing Pneumatic Valves.....	18
Drawings.....	
General Dimensions and Rough-in Detail	19
Self-closing Pneumatic Valve Detail	20
Miscellaneous Details	22
Warranty	25



WILLOUGHBY

Rev. 9/2025

Willoughby Industries, Inc.

5105 West 78th Street
Indianapolis, IN 46268
Toll Free: (800) 428-4065
Local: (317) 875-0830
Fax: (317) 875-0837
www.willoughby-ind.com

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 Industries' WAF-3306 Series** washfountain:

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.

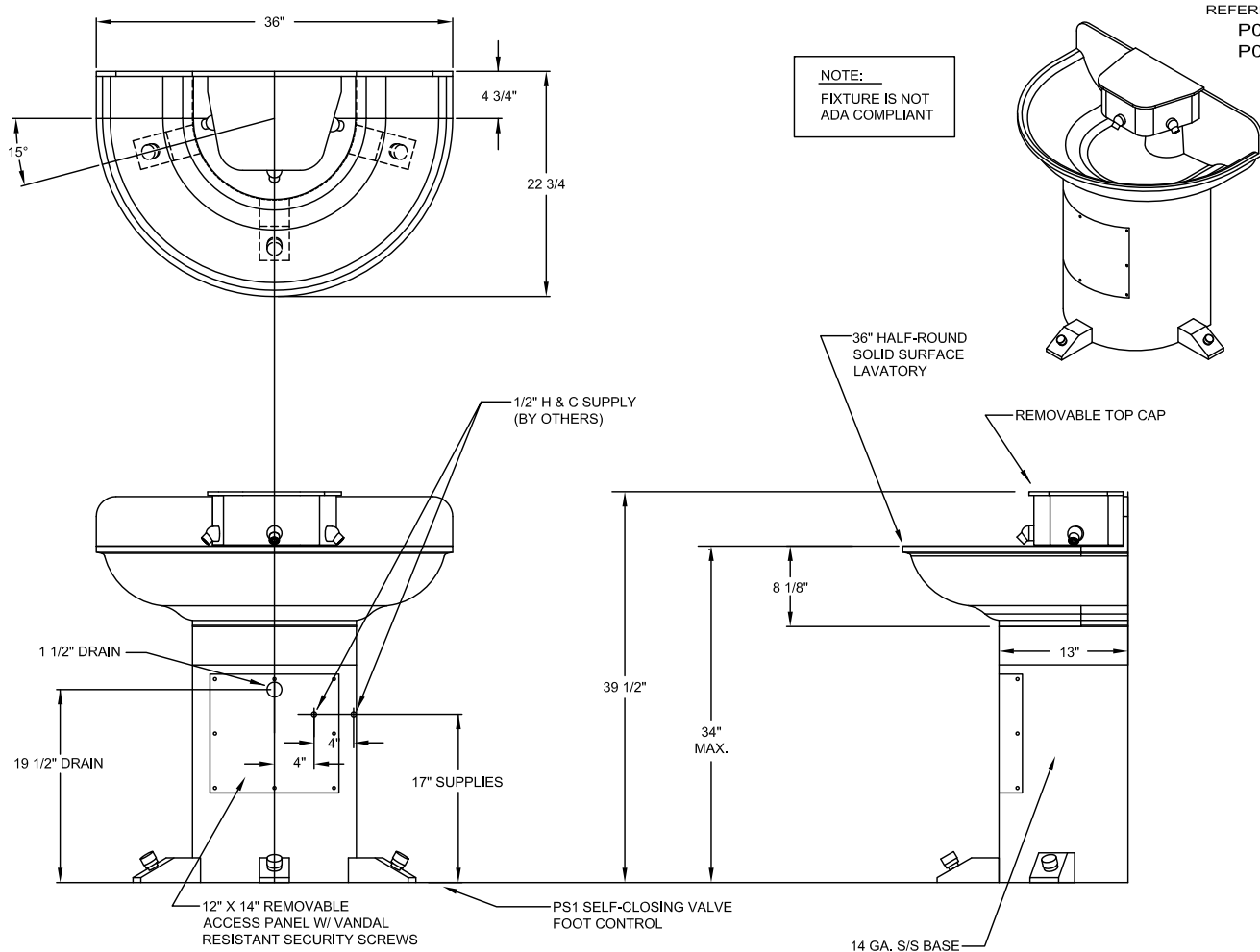
Again **DO NOT** attempt to connect the valve assembly and spray head until *after* all flushing is complete and pure water is the only media that will be passing through the system. Damage to the valve assembly or spray head caused by harsh chemicals or debris will not be covered by the manufacturer's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

Installation notice!

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

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

Physical Dimensions- WAF-3603-FLR-FO



Required Installation Supplies

- Proper mounting hardware
- Hardware for waste outlet connections
- Gasket for waste outlet connection
- Shims (for installation if necessary)
- Supply piping
- Silicone caulk

☐ **WARNING:** Willoughby Industries does not assume any responsibility for personal injury or damage to equipment due to an improperly installed WAF-3603 Series washfountain.

Parts List

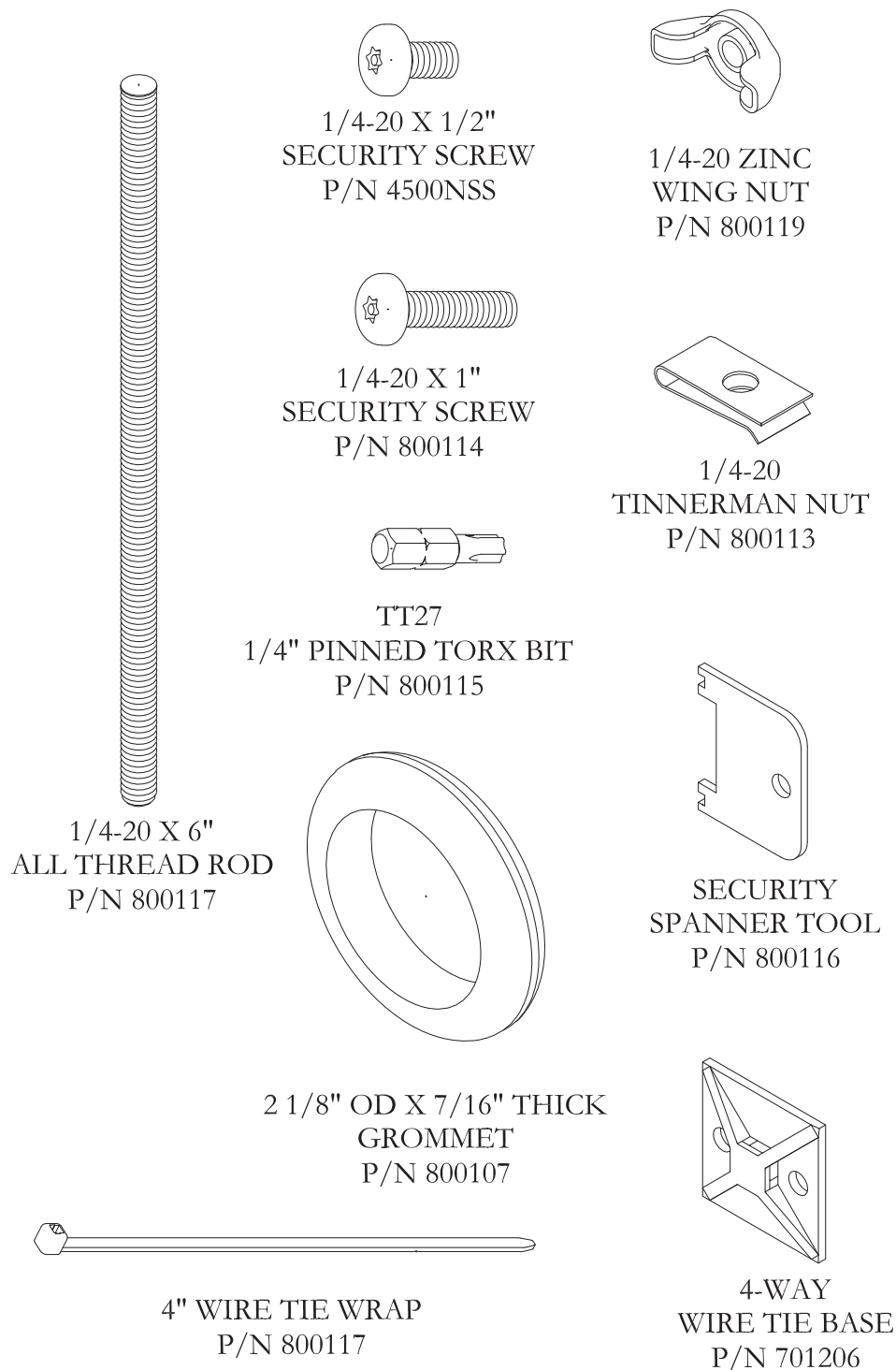
3 and 4 Station Replacement Part Numbers

DESCRIPTION	PART# 3 STATION	PART# 4 STATION
DRAIN ASSEMBLY	380283	380283
ACTUATOR PALM PUSH BUTTON	600311	600311
PNEUMATIC VALVE ASSEMBLY	803105-3SW	803105-4SW
HARDWARE KIT	800258	800258
PLASTIC VALVE BRACKET	9805013	9805014
VALVE FITTING ASSEMBLY	980600A	980600A
CHECKSTOP ASSEMBLY	980183	980183
STAINLESS STEEL FLEX HOSE (6")	980506	980506
STAINLESS STEEL FLEX HOSE (20")	980520	980520
POWERS HYDROGUARD T/P (LFe480)	700480ELF	700480ELF
STND. SPRAY HEAD ASSEMBLY- WAF (AERATOR SPRAY HEAD, 0.5 GPM- #320157A) (SPRAY HEAD BASE, 45*- #800001)	320157A-ASMB	320157A-ASMB
SOLID SURFACE TOP COVER	800333LP-XX*	800441LP-XX*
36" SOLID SURFACE BOWL/PEDESTAL	WAF3603-FT	N/A
54" SOLID SURFACE BOWL/PEDESTAL	WAF5403-FT	WAF5404-FT
36" VALVE HEAD KIT	WAF3603-PFT	N/A
54" VALVE HEAD KIT	WAF5403-PFT	WAF5404-PFT

*XX REPRESENTS THE WASH FOUNTAIN COLOR

WHITE GRANITE=WG
SAND STONE=SS
GRAY GRANITE=GG
BLACK GRANITE=BG
SEA GREEN=SG
NOCTURNAL BLUE=NB
GLACIER WHITE=GW
BONE=B

Hardware Identification Chart

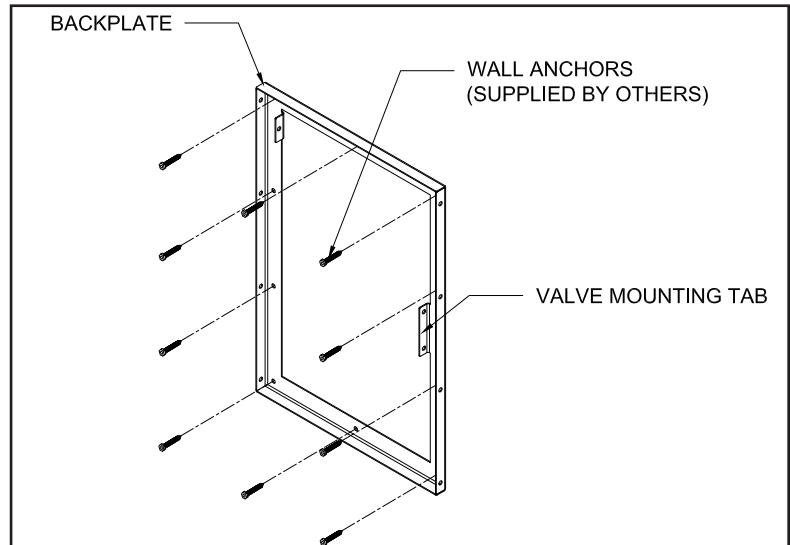


Installation Instructions

Step 1: Mounting Backplate

Parts supplied:

- Complete pedestal (pre-assembled)



**Mounting the backplate.
(ONLY PEDESTAL BACKPLATE SHOWN)**

Note: Hardware for wall anchoring by others.

Note: Use anchors that are adequate for the type of wall: drywall, concrete, metal studs, wood studs, etc.

Note: Refer to rough-in drawing for backplate mounting hole locations to achieve 34" rim height.

- 1.) Remove shroud from pedestal backplate using security screws on sides.
- 2.) Measure and mark the vertical centerline of the washfountain on the wall. Mark a level line at the height prescribed by the rough-in drawing for the pedestal backplate center hole. Drill a hole for a wall anchor (supplied by others) at this height mark.
Make sure that the intended anchor locations will provide adequate backing to support the installed washfountain. If adequate backing does not exist, install appropriate support backing or relocate unit before proceeding with installation (backing provided by others).
- 3.) Mount the pedestal on the wall using a wall anchor through the backplate center hole and the first drilled hole. DO NOT TIGHTEN THIS FIRST WALL ANCHOR ALL THE WAY, as you may need to adjust the pedestal to ensure it is level.
- 4.) Make sure the pedestal is level and plumb against the wall, then mark and drill holes for the rest of the wall anchors as specified by the rough-in drawing.
- 5.) Ensure once more the pedestal is level, then secure it to the wall using the remaining anchors (supplied by others). Make sure all wall anchors are tight and secure against the pedestal backplate.

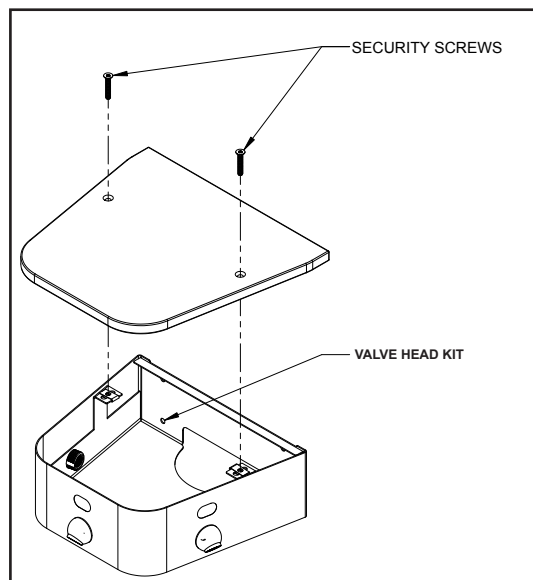
Note: Be sure backplate is level and plumb against the wall so that water in basin will drain correctly once assembly is completed.

Installation Instructions (cont.)

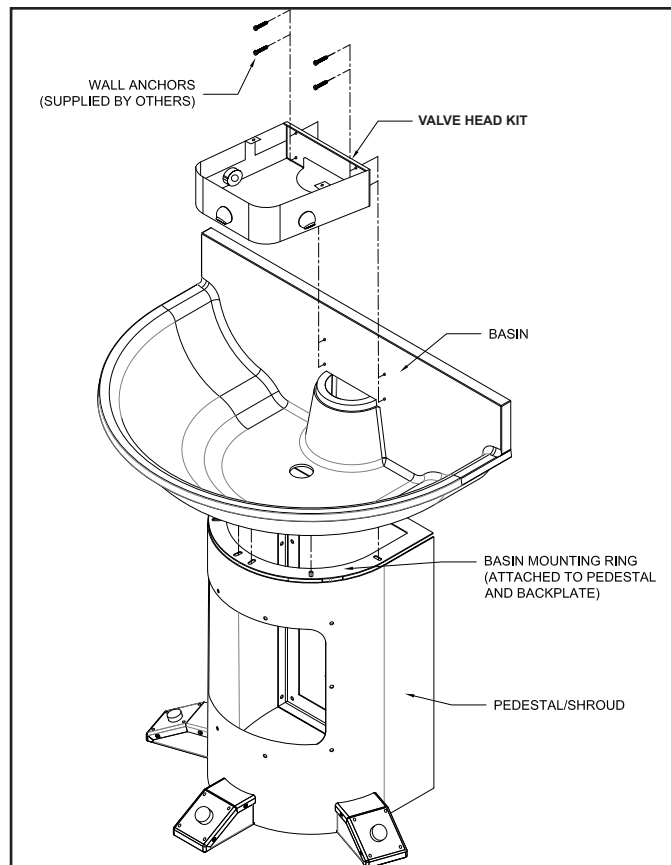
Step 2: Mounting Basin

Parts supplied:

- Solid surface basin
- Valve head kit
- Pedestal assembly



Removing the top cover.



Mounting the basin and valve head kit to the backplate and wall.

- 1.) Remove top cover from the valve head kit by loosening the security screws as shown in the above-left diagram. Set the top cover, screws, and nuts aside.
- 2.) With the help of an assistant, place basin on top ledge of the pedestal assembly.
- 3.) Carefully mark mounting holes on wall through the basin, then remove the basin and drill the mounting holes.
- 4.) Replace the basin and valve head kit as shown in the above-right diagram.
- 5.) Fasten wall anchors (supplied by others) through the basin and valve head kit holes securely, but **DO NOT OVERTIGHTEN**; this can damage the solid surface basin and valve head kit.
- 6.) Secure the basin to the pedestal assembly by fastening the included screws up through the pedestal basin mounting ring into the threaded inserts on the bottom of the basin.

Note: BE SURE to use the screws included with the washfountain. Using longer screws than those provided can damage the solid surface basin.

Installation Instructions (cont.)

Step 3: Drain Assembly

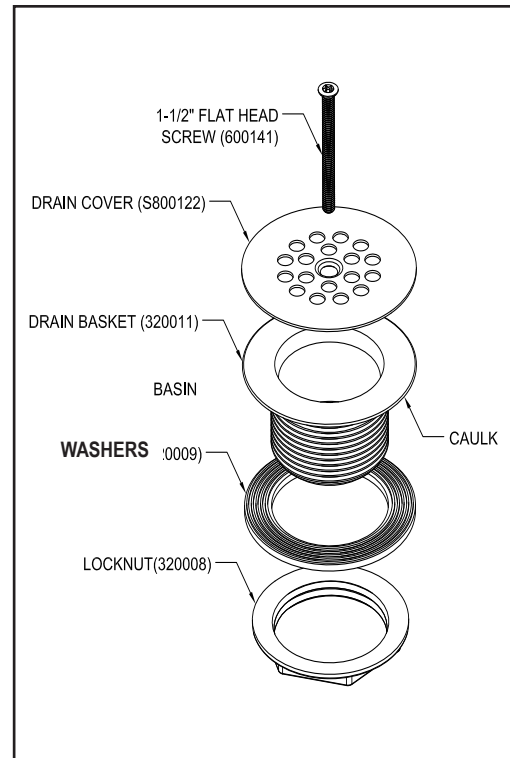
Parts/Materials supplied:

- Solid surface basin
- Drain assembly (*see diagram*)

- 1.) As shown on the diagram, apply a small (approx. 1/4" dia. 6" long) strand of silicone caulk on the underside of the drain basket lip (supplied by others).
- 2.) Insert the drain basket down through the basin drain hole.
- 3.) Secure the drain basket in place by fitting the rubber and stainless steel washers onto the drain assembly from the underside of the basin. Tighten the locknut onto the drain basket assembly, sandwiching the washers between the basin and locknut.

Note: Over-tightening the locknut or security screw can damage the solid surface basin and/or drain assembly components.

- 4.) Secure the drain cover to the drain basket using the provided screw.

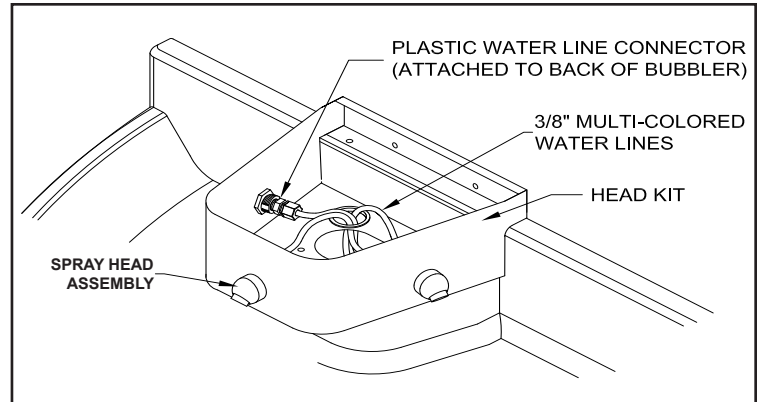


Installation Instructions (cont.)

Step 4: Connections for Pneumatic Foot Control Actuators

Parts supplied:

- Valve Assembly (pre-installed)
- 3/8" x 4' Multi-Colored Water Lines
- Small Diameter Multi-Colored Pneumatic Tubing
- 1/4-20 x 1/2" security screws
- 1/4-20 tinnerman nuts



Pneumatic Foot Control head kit (3-station unit shown)

Note: Use wire tie mounts and wire ties to route and secure tubing. Longer tubes may need to be bundled with wire ties so that they do not come in contact with sharp corners.

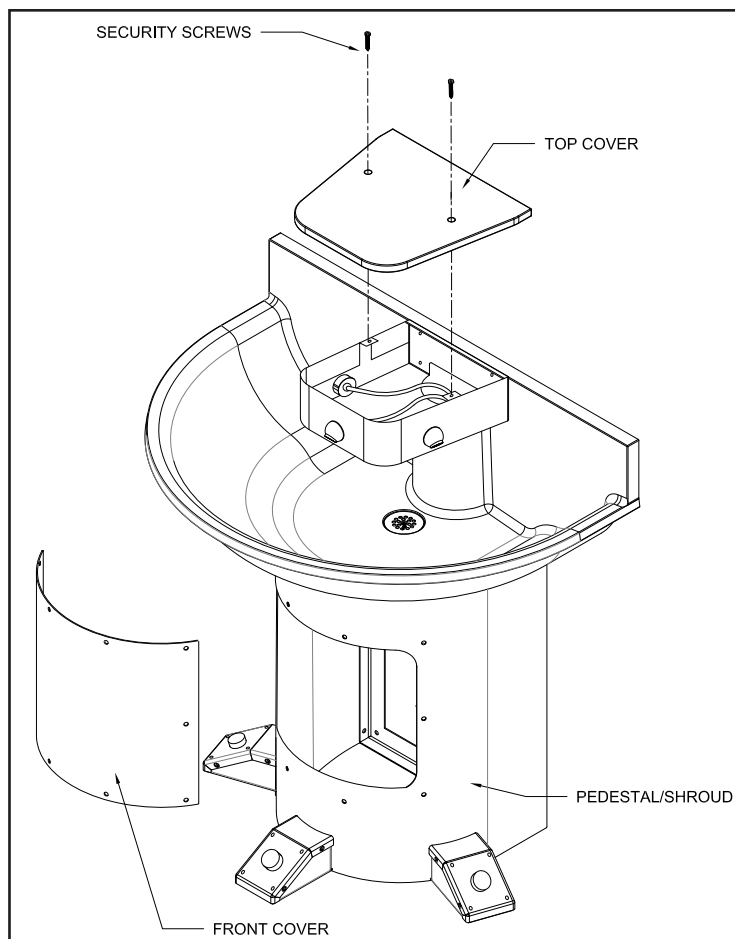
- 1.) Locate the multi-colored pneumatic tubing. Feed each tube to the access hole of each foot control actuator housing on the bottom of the pedestal.
- 2.) Plug one end of each pneumatic tube onto the hose barb on the back of its corresponding foot control pushbutton diaphragm pump (*see DRAWING: Pushbutton Detail on Page 22). Run each tube up to the manifolded valve assemblies. Plug each tube's other end onto the hose barb of its corresponding valve assembly. Repeat process for each pneumatic tube.
- 3.) Locate the 3/8" multi-colored water lines. Match the color of each water line with the corresponding color of pneumatic tubing. On each corresponding valve assembly, loosen the plastic nut on the plastic connector and firmly push the water line through the plastic nut into the fitting. Tighten plastic nut to secure the water line to the valve assembly. (**see JACO Fitting Instructions on Page 12 for further detail). Repeat for each water line.
- 4.) Once all water lines have been attached to their corresponding valve assemblies, run the other end of each water line up through the basin to the head kit. Match the color of each water line to the spray head assembly above each foot control actuator. On each corresponding spray head, loosen the plastic nut on the plastic connector and firmly push the water line through the plastic nut into the fitting. Tighten the plastic nut to secure the water line to the spray head. Repeat for each remaining water line.

Installation Instructions (cont.)

Step 5: Final Assembly

Parts supplied:

- Solid Surface Top Cover
- Pedestal Shroud
- 1/4-20 Tinnerman Nut
- 1/4-20 x 1" Security Screw
- 1/4-20 x 1-1/2" Flat Head Security Screws



- 1.) Make all final plumbing connections to valve inlets using supplied flex hoses (flex hoses have shut-off valves attached that should be connected to the supply inlets).
- 2.) Once all of the connections in the actuator housings and the valve head kit are completed, test the system for leaks (both supply and waste).
- 3.) Using 1/4-20 x 1-1/2" flat head security screws, attach top cover to the valve head kit.
- 4.) Using 1/4-20 x 1" security screws, attach the front panel to the pedestal shroud.

JACO Fitting Instructions

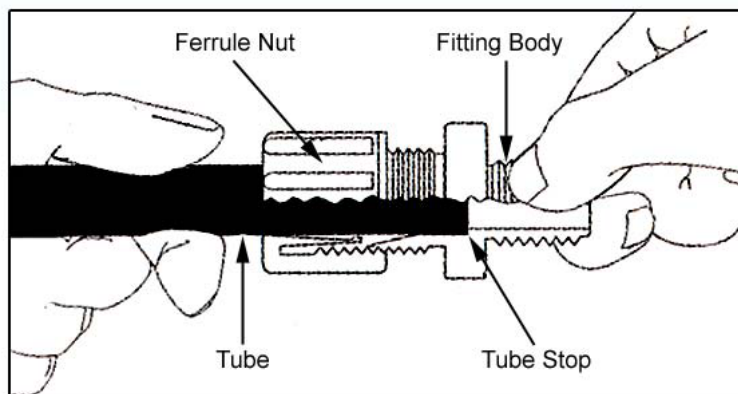
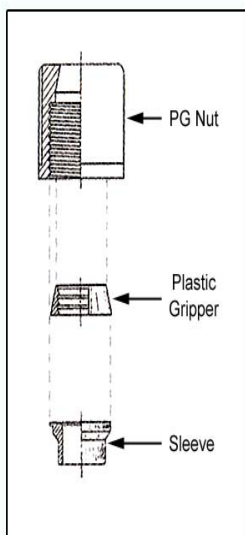


Note: It is not necessary to disassemble this fitting for application. Merely insert tubing to stop and tighten seal.

1. Cut tubing end squarely and remove the internal burrs.
2. Insert the tubing through the back of the nut all the way through the nut assembly to the tube stop in the fitting body (see illustration). If the tubing does not enter the nut easily, loosen the nut one turn and reinsert the tubing all the way to the tube stop in the fitting body.
3. Turn the nut hand tight.
4. Wrench tighten the nut $1\frac{1}{2}$ - 2 turns.
5. All nuts must be retightened when the system reaches projected operating temperature.

Note: To ensure proper assembly, tubing MUST be fully inserted into the fitting body all the way to the tube stop.

Note: Squeaking sound when tightening nut is normal. For pipe threaded connections, Teflon tape must be used.



Mixing Valve Instructions

POWERS™

IS-P-e480

**HydroGuard® T/P Series e480
Lavatory Combination Valve**

Installation Instructions

To Install ■

NOTE: Installation should be in accordance with accepted plumbing practices. Flush all piping thoroughly before installation.

1. Locate a suitable place for the tempering valve. Valve should be accessible for service and adjustment and as close to the point-of-use as possible.
2. Connect hot and cold water to the supply valve using 1/2" NPT or 3/8" compression connections.
3. Connect outlet of tempering valve to fixture(s) using 1/2" NPT or 3/8" compression connections.
4. Turn on hot and cold water supplies. If any leaks are observed, tighten connections as necessary to stop leaks before proceeding.
5. Turn on fixture and allow water to flow for 2 minutes. Measure water temperature at outlet. If water is not at desired temperature, adjust as necessary.

Specifications ■

e480-00	1/2" NPT (Rough Bronze)
e480-01	1/2" NPT (Rough Chrome)
e480-10	3/8" Compression (Rough Bronze)
e480-11	3/8" Compression (Rough Chrome)
Capacity:	4.0 gpm (15.0 l/m)
Approach Temperature:	5°F (2.8°C) above set pt.
Max. Operating Pressure:	125psi (862 kpa)
Max. Static Pressure:	125psi (862 kpa)
Max. Hot Water Temperature:	180°F (82°C)
Temp. Adjustment Range:	
..... ASSE Type T/P:	95 – 110°F (43-48°C)
..... ASSE Type T:	80 – 120°F (27-49°C)
Minimum Flow:	0.5 gpm (2.2 l/m)
Checks:	Integral
Construction:	Cast Brass Body
Certified:	CSA B125
Listing	ASSE 1016-1996 (Type T/P)
	ASSE 1070

CALIFORNIA PROPOSITION 65 WARNING

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. (California law requires this warning to be given to customers in the State of California.)

For more information: www.watts.com/prop65

Figure 1

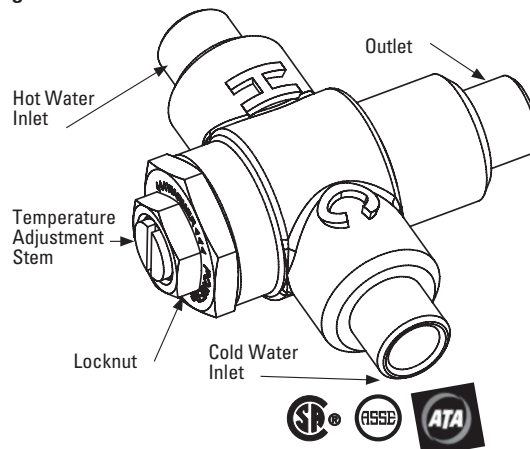
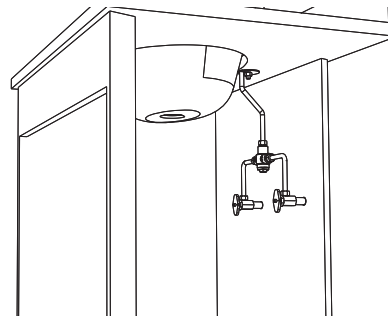


Figure 2: Typical Installation



To Adjust Temperature ■

1. Loosen locknut.
2. Turn on fixture and run water for at least two (2) minutes to allow supply temperature to stabilize.
3. Turn temperature stem counter-clockwise for hotter or clockwise for colder outlet temperature.
4. Tighten locknut to prevent accidental or unauthorized temperature adjustment.
5. Re-check outlet temperature.

Repair Kit ■

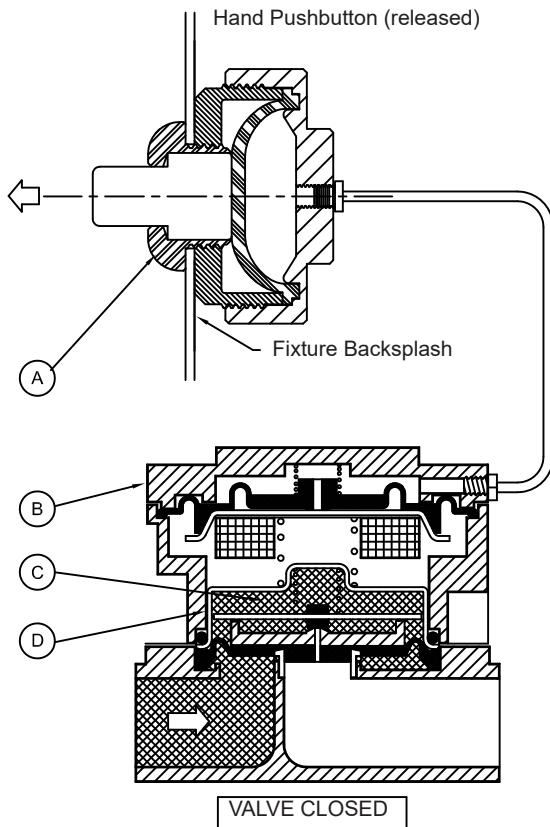
Motor Repair Kit..... 480-270

Self-closing Pneumatic Valve- Operation Details

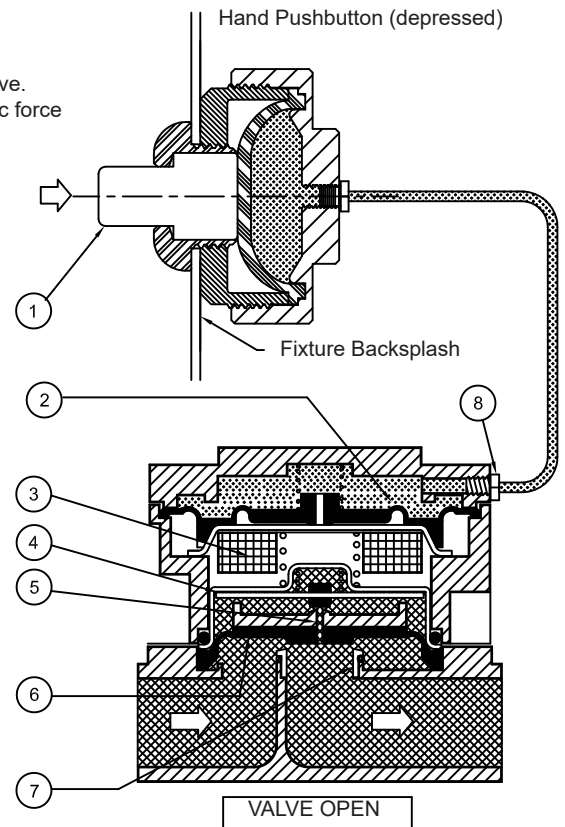
Three Major Components:

- (A) Remote pushbutton assembly
- (B) Pneumatic servomotor
- (C) Servomotor supply valve

Stainless steel separator cup (D)
divides the servomotor & supply valve.
The only interconnection is magnetic force



Valve Closes: releasing the pushbutton relieves pressure through the hose barb (8) into the chamber above the actuating diaphragm (2). The lack of air pressure in this chamber allows the diaphragm (2) and the magnet (3) to be forced up. The water side actuating disk (4) drops, covering the pilot orifice (5). Water pressure increases above the seat diaphragm (6), closing the diaphragm (6) against the seat (7).



Valve Opens: Depressing the button (1), forces air through the chamber above the actuating diaphragm. The air pressure on top of the actuating diaphragm (2) causes the diaphragm and magnet (3) to be forced down. The water side actuating disk (4) is pulled up by magnet (3) opening the pilot orifice (5), bleeding off line pressure from above the seat diaphragm (6). Water pressure then lifts the seat diaphragm (6) off the seat (7) and opens the valve.

Self-closing Pneumatic Valve- **Operation and Maintenance**

The Willoughby Pneumatic Valve Assembly is designed as a pressure operated, piloted orifice self-closing valve. This type of valve is used for lavatories as well as showers.

A strainer/checkstop is an integral part of the valve assembly and provides a means of shutting off the water if the valve needs servicing. A check valve in the checkstop eliminates backflow into the supply lines. Fine mesh stainless steel strainers keep normal line debris from interfering with the mechanical components of the valve.

By virtue of its design, a pneumatic self-closing valve is a normally closed valve. The valve will open when the hand or foot pushbutton is depressed. The valve will close when the hand or foot pushbutton is released. The operating sequence of the valve begins with pressing the pushbutton. Depressing the pushbutton forces air through the tubing into the air side top cover of the valve. The air pressure on top of the actuating diaphragm causes the diaphragm and magnet to be forced down. The magnetic force flowing through the barrier cup lifts the water side actuating disk. This allows the water pressure to lift the water side diaphragm off the valve seat and allow water to flow through the valve.

Releasing the pushbutton relieves pressure through the tubing which releases the pressure above the actuating diaphragm. The lack of air pressure on top of the actuating diaphragm allows the magnet spring to lift the magnet up and away from the water side actuating disk. The water side spring on top of the water side actuating disk then forces the disk downward. This seals the pilot hole in the seat diaphragm assembly. The water pressure then increases above the seat diaphragm which closes the diaphragm against the valve seat and shuts the water off.

A piloted orifice in the valve uses the water pressure in the line to assist in opening and closing the valve. The pilot orifice extends through the center of the 3-pronged insert holding the water-side diaphragm and is opened and closed by a rubber bumper molded onto a stainless steel disk. The bypass orifice is molded in the edge of the diaphragm (some diaphragms may have two of them). All orifices must be clear for the valve to function properly.

If a pneumatic valve drips after shutting off and the seat and diaphragm have smooth sealing surfaces, a PVK-2 diaphragm assembly kit should be installed.

If a pneumatic valve does not open and the problem is not in the pneumatic pump or tubing, a PVK-1 motor assembly kit should be installed.

Liquid Soap Specification and Maintenance

(For models with “LSD” option only)

Liquid soap viscosity is measured in “cps” (centipoise). The liquid soap chosen to be used with Willoughby’s Liquid Soap Dispenser should be between 100cp and 2500cp.

The viscosity of the soap should be thin and free flowing.

Some soap types are available in a concentrate and must be diluted with water.

The pH (acidity) level should be in the range of 6.5 to 8.5.

Soap which is too acidic (pH less than 6.5) can corrode stainless steel and degrade rubber, plastic, or chrome-plated materials.

Soap that is outside the range of 6.5 - 8.5 might be harsh on the hands or skin.

(Generally, any quality soap meeting the viscosity and pH guidelines should work well.)

Recommended Maintenance Schedule

To maintain proper function, Willoughby’s Liquid Soap Dispenser should be cleaned periodically to remove soap residue. The Liquid Soap Spout should be soaked in hot water for a period of 30 minutes when cleaning is being performed. The soap tray should also be cleaned with hot water.

Care and Maintenance

Solid Surface Care

Aquasurf® surfaces may be easily cleaned using conventional cleaning agents such as an ammonia based liquid cleaner, (glass cleaner).

Dry stains on a matte finish can be removed with a 3M Scotch-Brite gray scouring pad or a mild abrasive cleaner.

Burns or scorches can be removed by sanding with coarse grit sandpaper followed by finer grit (220) sandpaper. Follow sanding with a 3M Scotch-Brite gray pad (or equivalent) to match finish of sanding area to surrounding area. A final buffing may be required on polished surfaces. Accidental nicks or chips can be repaired with special patch kits available in all Aquasurf® colors.

Avoid exposing Aquasurf® surfaces to strong chemicals such as acetone's; paint removers and sulfuric acid or hydrochloric chemical cleaners. Exposure to strong chemicals may result in permanent damage to Aquasurf® surfaces.

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 - **Self-closing Pneumatic Valves**

VALVE WILL NOT OPEN OR DELIVER WATER:

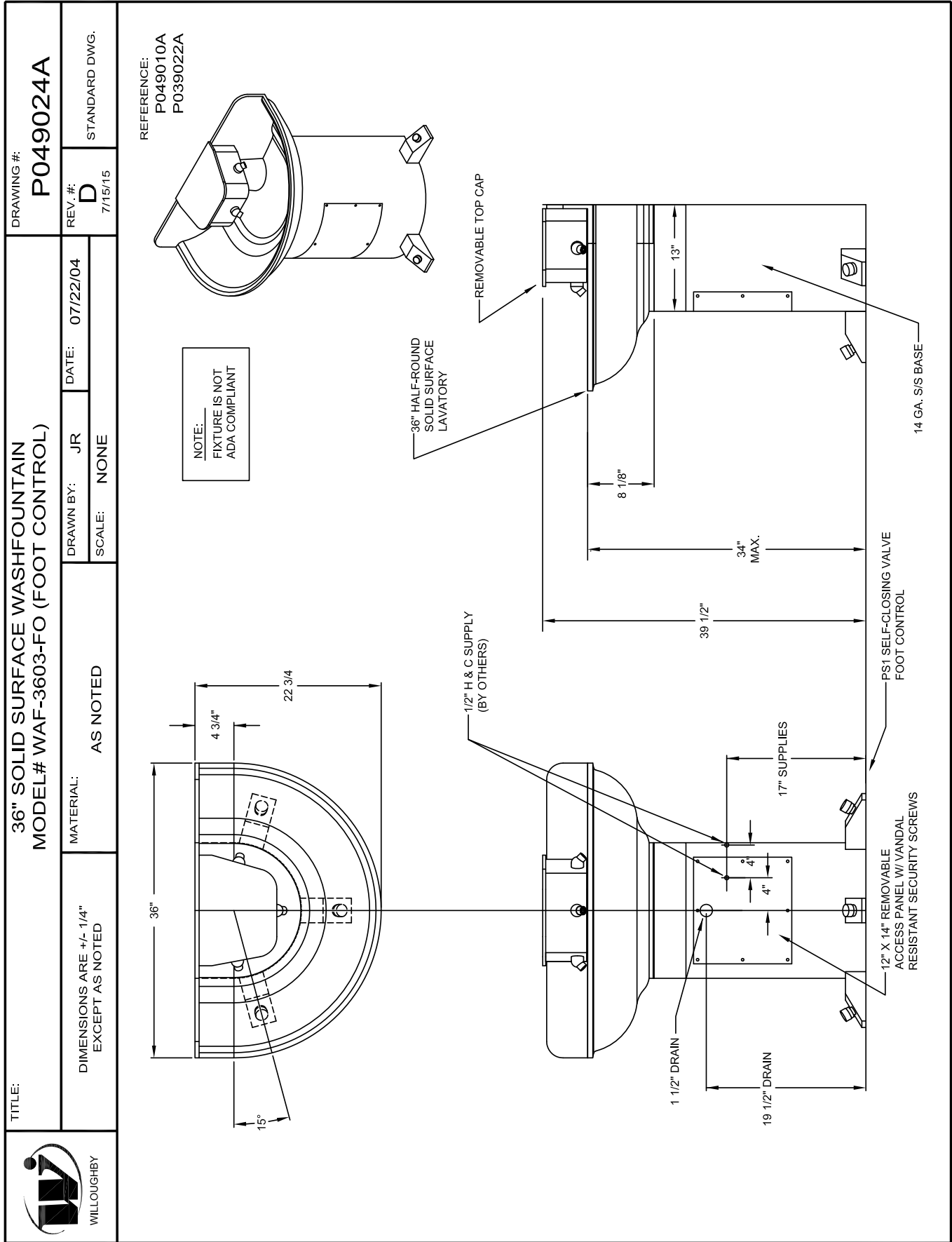
- (1) Check the plastic tubing that runs from the push button actuator to the pneumatic valve for air leaks.
- (2) Make sure the checkstop on the supply to the valve is fully open. Do not partially close the checkstop for any reason as it is not a throttling valve. The checkstop should be fully open (normal operation) or fully closed (when servicing the valve).
- (3) Close checkstop and then inspect the strainer in the supply line (installed after the checkstop) to make sure the strainer is not blocked or partially blocked prohibiting water flow.
- (4) Separate valve motor from valve base by removing the (4) #8 screws. Remove the top cover from the motor. Check the actuator diaphragm for holes. **Do not lose the actuator spring.**


VALVE WILL NOT SHUT OFF:

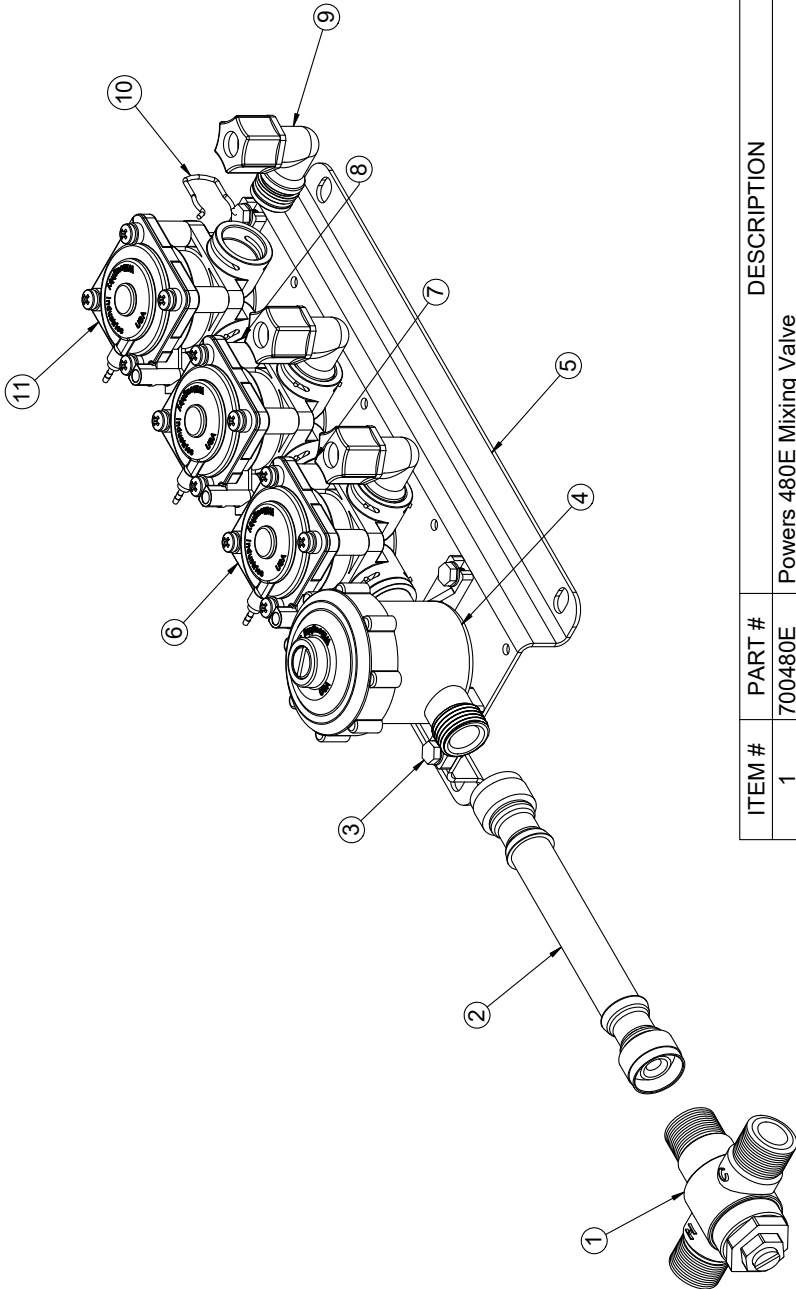
- (1) Separate valve motor from valve base by removing the four (4) #8 screws.
- (2) Inspect the water diaphragm assembly to see if bypass hole in diaphragm is blocked. Remove any debris by blowing on diaphragm or using force of air. Do not use any tool (such as straight pin) to remove any debris. Enlarging the hole will shorten or make for erratic cycling.

VALVE CONTINUES TO TRICKLE OR PARTIALLY DELIVER WATER AFTER CYCLE IS OVER:

- (1) Inspect seating area on valve base to make sure no debris, pitting or scoring is present.
- (2) Clean seat or replace seat (if a brass base) as necessary.
- (3) Inspect seating area of diaphragm for debris, clean as necessary. If debris has caused permanent indentations in the rubber, it may have to be replaced.




	Willoughby Industries Inc. Indianapolis, Indiana		Title or Part Description: VALVE ASSY, WASHFOUNT 3-STATION (SELF-CLOSING)				Drawing #: 803105-3SW	
	Tolerances Except as Noted	2 Places +/- .03 3 Places +/- .015 Fractions +/- 1/32" Angle +/- 1°	Material:	Drawn By: TRB	Scale: 1:8	Date: 11/7/11	Qty: N/A	Revision #: B
	Job Name: N/A		Part Number:				Approved By:	Sheet: 1 Of 1



ITEM #	PART #	DESCRIPTION	QTY.
1	700480E	Powers 480E Mixing Valve	1
2	980506	FLEXHOSE, 6"	1
3	800133	#10-16 SELF TAP TYPE B HEX HEAD SCREW	8
4	980183	CHECKSTOP ASSEMBLY	1
5	9805013	PM1-MA3 Valve Bracket - Plastic	1
6	980403	PNEUMATIC VALVE ASSEMBLY (Self Closing)	2
7	980197	PLASTIC VALVE COUPLING	2
8	980164	O-RING, #015	4
9	980600A	VALVE FITTING ASSEMBLY, 3/8" ELBOW	3
10	980140	SPRING CLIP	8
11	980403PR	SELF CLOSING PNEUMATIC VALVE ASSY, RIGHT - PLUGGED PORT	1
12	980520	FLEXHOSE, 20" (NOT SHOWN)	2

NOTE:
PART #12 - FLEXHOSE, 20" NOT SHOWN



WILLOUGHBY

Willoughby Industries Inc.
Indianapolis, Indiana

Tolerances
Except as
Noted

2 Places +/- .03
3 Places +/- .015
Fractions +/- 1/32"
Angle +/- 1°

DESCRIPTION

QTY.

ITEM NO.

SUB-ASSY #

PART #

DESCRIPTION

QTY.

1

N/A

980001

#8-32 x 1 1/4" SCREW

4

2

N/A

980002

SPLIT LOCK WASHER

4

3

N/A

380840

PUSH-IN HOSE BARB (BRASS)

1

4

N/A

380801M

AIR SIDE TOP COVER

1

5

N/A

980134

AIR SIDE SPRING

1

6

N/A

980130

AIR SIDE DIAPHRAGM

1

7

980405

980131

CUP, MAGNET

1

8

N/A

980132

MAGNET

1

9

N/A

980135

MAGNET SPRING

1

10

N/A

380802M

VALVE MOTOR BODY

1

11

N/A

980127

O-RING M1.5x32 BUNA-70

1

12

N/A

980126

BARRIER CUP

1

13

N/A

980136

WATER SIDE SPRING

1

14

N/A

980161

RUBBER BUMPER

1

15

980310

980125

WATER SIDE ACTUATING DISK

1

16

980305

980128

3 PRONGED INSERT

1

17

N/A

980129

WATER SIDE DIAPHRAGM

1

18

N/A

980420L

SINGLE TEMP BASE, LEFT - PLUGGED PORT W/INSECTS

1

Drawing #: 980403PL

Revision #: A

Part Number:

Title or Part Description:
SELF CLOSING PNEUMATIC VALVE ASSY, LEFT - PLUGGED PORT

Material:

Job Name: N/A

Date: 11/2/12

Scale: 1:8

Drawn By: TRB

Part Number:

Approved By:

Sheet: 1 Of 1

ASSEMBLED VIEW

PVK-2
(PARTS: 13-17)

PVK-3
(16,17)

PVK-4SC
INCLUDES KITS
PVK-1SC & PVK-2

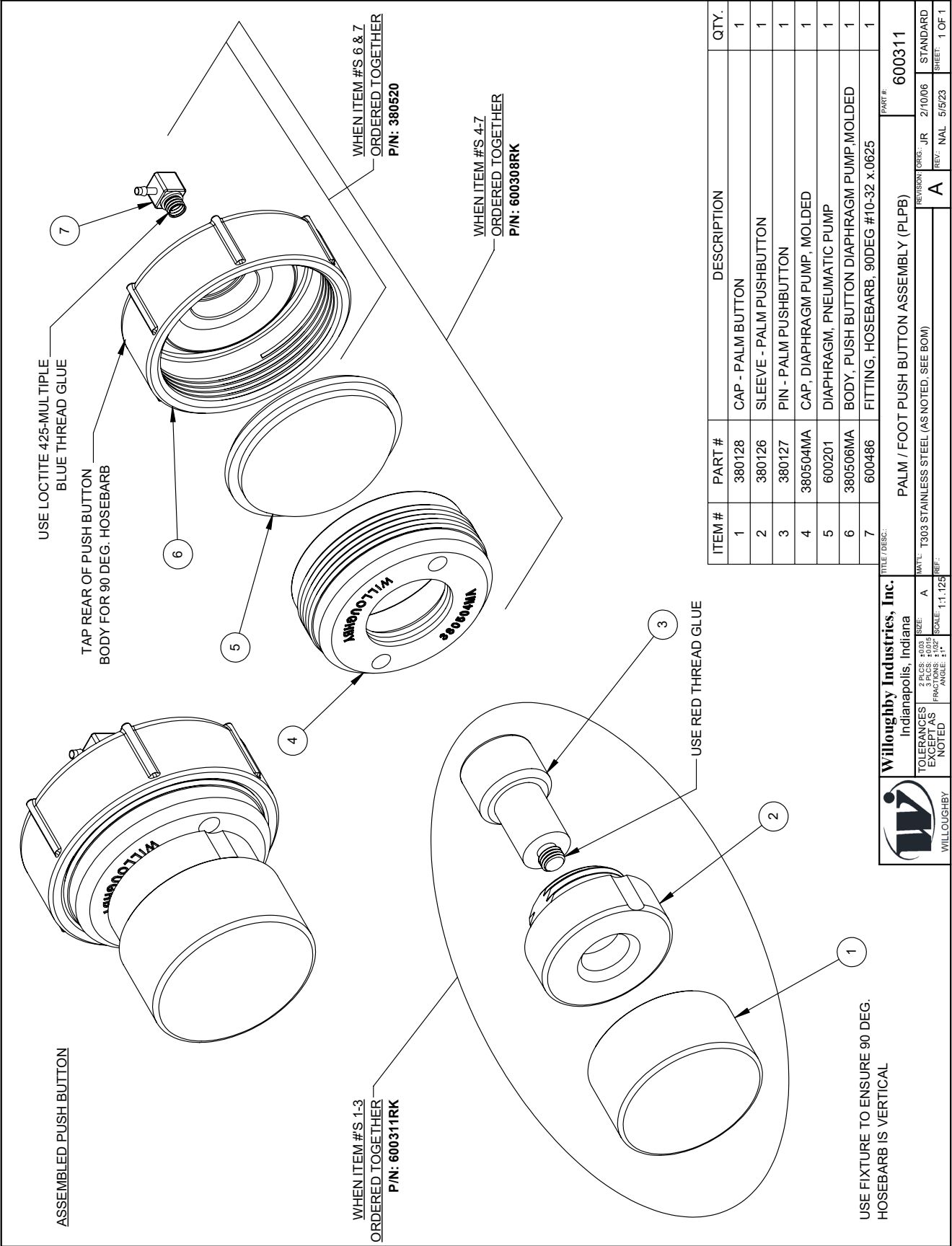
PVK-1SC
(PARTS: 3-12)

NOTE: REPAIR KIT ORDERING #'S ARE
LISTED IN THE EXPLODED VIEW.

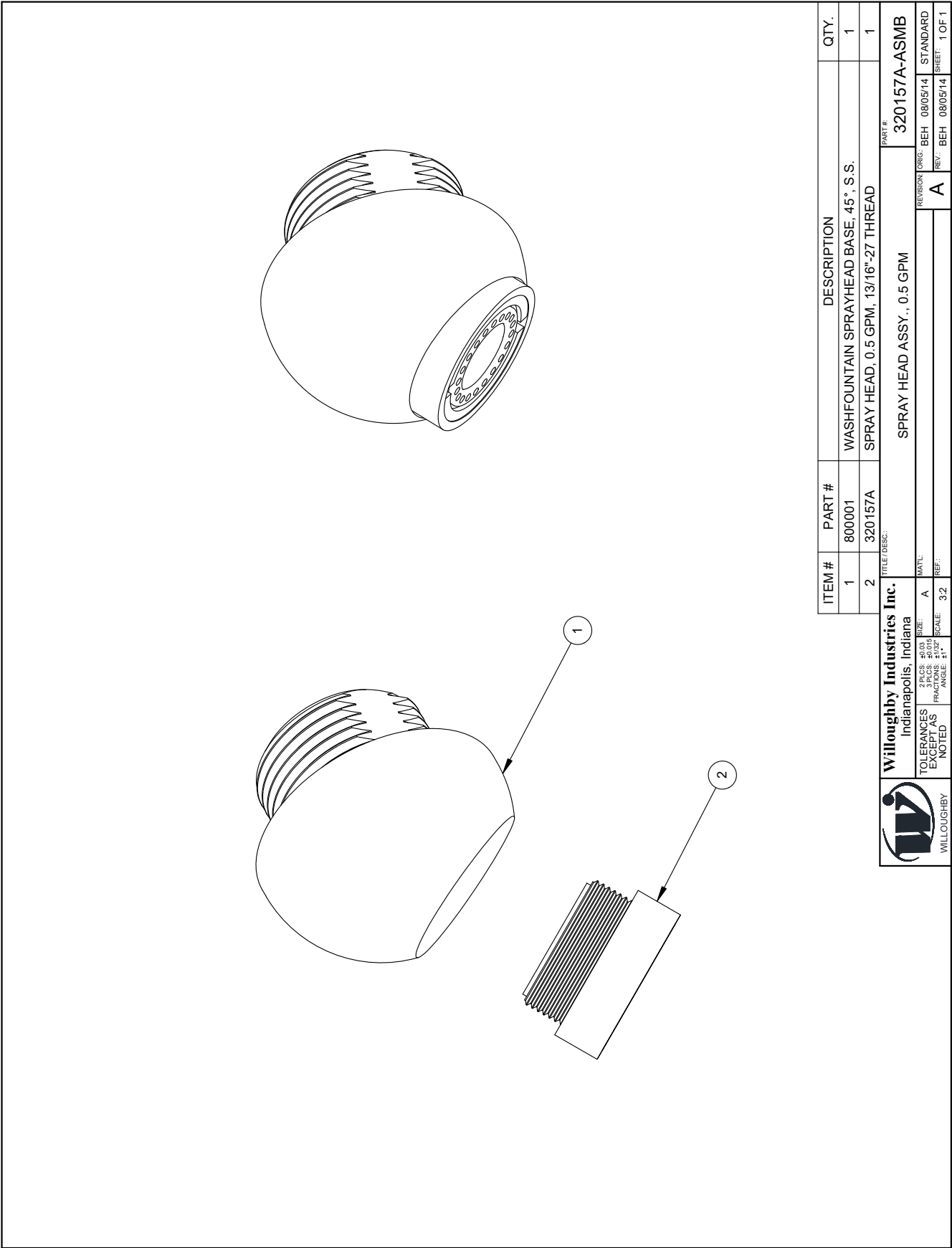
NOTE: PARTS LISTED IN THE PVK REPAIR
KITS ARE NOT SOLD INDIVIDUALLY

NOTE:
PVK-1SC, PVK-2 & PVK-3 PARTS
ARE AVAILABLE IN KIT FORM ONLY

DRAWING: Push Button Detail



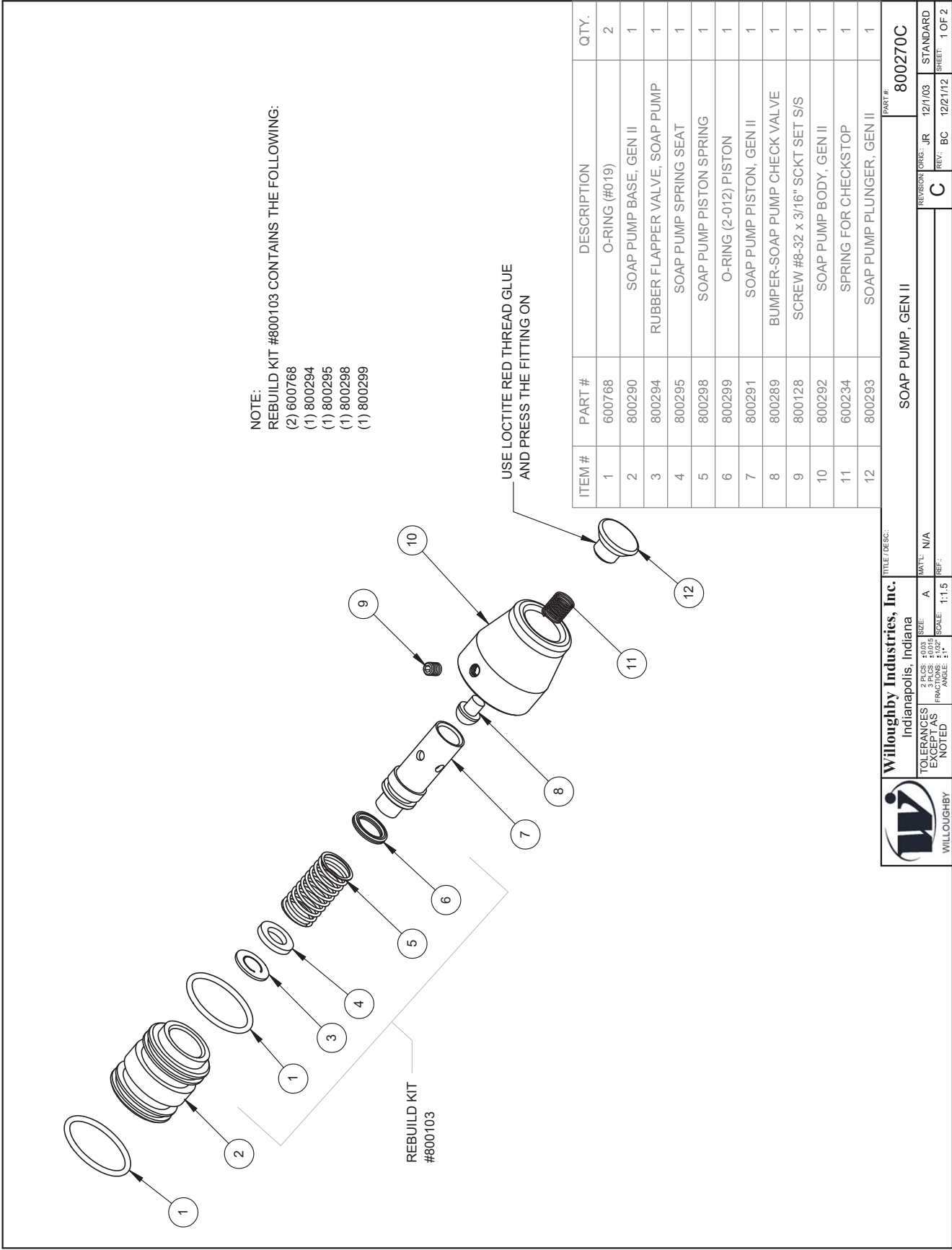
DRAWING: Spray Head Detail




ITEM #	PART #	DESCRIPTION	QTY.
1	800001	WASHFOUNTAIN SPRAYHEAD BASE, 45° S.S.	1
2	320157A	SPRAY HEAD, 0.5 GPM, 13/16"-27 THREAD	1

TITLE / DESC:		PART #:	
Willoughby Industries Inc.		320157A-ASMB	
Indianapolis, Indiana		320157A-ASMB	
TOLERANCES EXCEPT AS NOTED		REVISION DRES:	
2 PLCS: ±0.03		A	
3 PLCS: ±0.015		REV: BEH 08/05/14	
FRACTIONAL: 1/32"		STANDARD	
ANGLE: 1°		SHEET: 1 OF 1	

DRAWING: Liquid Soap Dispenser Detail





Willoughby Industries, Inc.

Indianapolis, Indiana

TOLERANCES
EXCEPT AS
NOTED

2 PLCS: ±.003
3 PLCS: ±.0015
FR: ANGLE: 1°

SCALE: 1:1.5

WATL: N/A
REF:

TITLE / DESC:

SOAP PUMP, GEN II

REVISION ORG:

JR

12/1/03

STANDARD

1 OF 2

PART #:

800270C

Warranty

Aquasurf® Solid Surface Products are a homogeneous blend of resins, mineral filler and colorant manufactured for panels, molded and/or shaped products and components. Aquasurf® Solid Surface products provide a luxurious appearance with the durability of stain proof, impact resistant, burn resistant material with ease of maintenance and cleaning.

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. The period during which Aquasurf® components are warranted as follows:

1. Aquasurf® solid surface components are warranted for 2 years from date of shipment.
2. All other components warranted for 1 year from date of shipment.

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 Willoughbys option, transportation charges prepaid by the purchaser, any Aquasurf® 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 institutional 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 or a particular purpose or otherwise.