

Please visit **www.neo-metro.com** for most current specifications.

WEDGE™ MODELS: 9161 9162 9163

CORTERRA ADA/OBC COMPLIANT WASH BASIN



Model Shown: 9161-WD04

TABLE OF CONTENTS

Prior to Installation
Accessibility Comparison
Dimensional Data
Rough-Ins
Installation
Finished Layouts
Troubleshooting
Cleaning and Maintenance17
Warranty Information

REQUIRED ITEMS FOR INSTALLATION - NOT SUPPLIED

- 🖉 Chalk Line
- ∠ Hammer
- ✓ Carpenters Level
- ✓ 1/2" NPS Supply Angle Stops
- ✓ 7/16" Hex Wrench
- ✓ Plumbers Putty

- I/4" Fixture Wall Anchors and Anchoring Hardware (and Appropriate Tools)
- I/2" Fixture Wall Anchors and Anchoring Hardware (and Appropriate Tools)

NEO-METRO

A Member of Morris Group International Morris Group 15125 Proctor Avenue • City of Industry, CA 91746 USA 800.591.9050 • 626.855.4854 • Fax 606.937.4725

NEO-METRO[®]

NEO-METRO FIELD SERVICE TOLL FREE 800-743-8259 • LOCAL 626-855-4866 • FAX 626-855-4863

Part #: 6216-019-000

Page 1 of 18



Please visit <u>www.neo-metro.com</u> for most current specifications.

Important: Some options may slightly alter installation. To ensure proper installation review the manual thoroughly and verify rough-ins before beginning any work. File this manual with the owner or maintenance personnel upon completion of installation.

Industry standard wall backing, for wall hung fixtures, is required. Installer provided wall anchors and wall anchoring hardware must be appropriate for wall construction, and have a minimum pull-out rating of 1000 lbs. (453.6 kg).

ANSI, UFAS or ADA compliance is subject to the interpretation and requirements of the local code authority and is the responsibility of the installer for verification.

Single Temp Valve Assembly: Recommended working water pressure is 30 PSI (2.07 bars) minimum to 100 PSI (6.89 bars) maximum. Maximum temperature is 130°F (54.4°C). Maximum outlet temperature is recommended is 105°F (40.6°C). Valve assembly must be drained prior to being subjected to freezing temperatures. A checkstop is provided with this valve assembly.

T/P Mixing Valve Assembly: Recommended working water pressure is 30 PSI (2.07 bars) minimum to 100 PSI (6.89 bars) maximum. Maximum hot water temperature is 180°F (82°C). Temperature adjustment range is 95°F-110°F (43°C-48°C). Valve assembly must be drained prior to being subjected to freezing temperatures. The valve assembly has a check integral to the inlet however, angle stop is to be provided by the installer.

Prior to installation, supply lines must be flushed of all foreign material such as pipe dope, chips, or solder. Debris or foreign material in water supply may damage valve.

Teflon tape is recommended on all threaded waste and supply connections to reduce the possibility of leaks.

Provide: 110-120 VAC/60Hz/3A (MAX) electrical receptacle for factory supplied 120VAC/9VDC, 100mA plug-in transformer when -SO and -SOS options are selected.

Provide: 110-120 VAC/60Hz/15A dedicated circuit when Dyson Air Blade Faucet selected. Refer to Dyson installation instructions for more information.

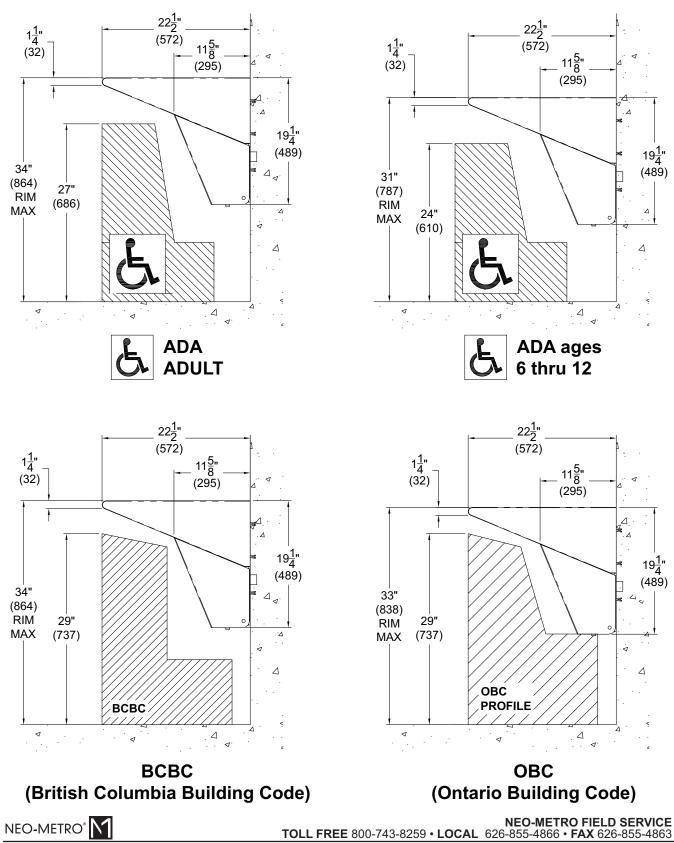
NOTE: Receptacle(s) must be wired to a GFCI protected circuit. Fixture must be earth grounded per N.E.C. (National Electrical Code).





Please visit <u>www.neo-metro.com</u> for most current specifications.

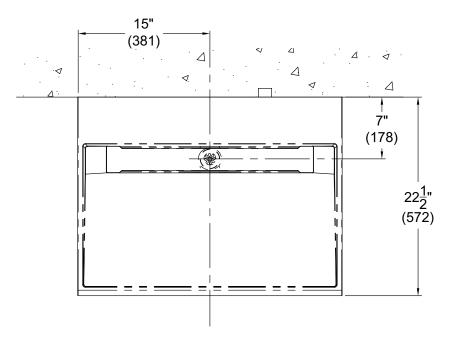
ACCESSIBILITY COMPARISONS

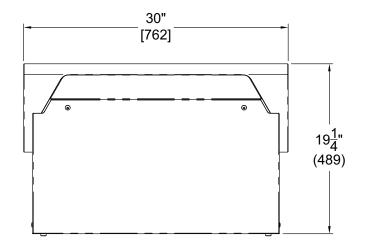




Please visit <u>www.neo-metro.com</u> for most current specifications.

DIMENSIONAL DATA - 9161





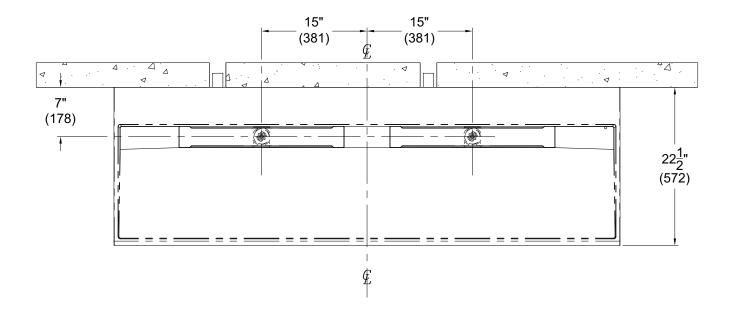


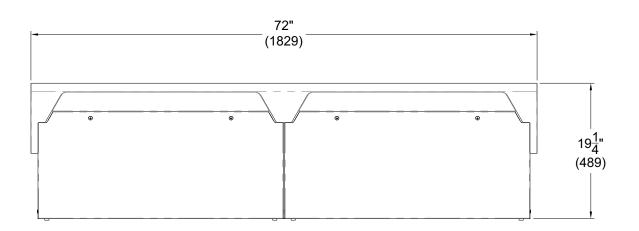




Please visit <u>www.neo-metro.com</u> for most current specifications.

DIMENSIONAL DATA - 9162





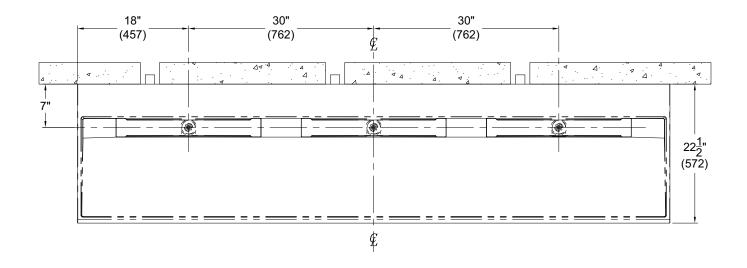
24		· · · · · · · · · · · · · · · · · · ·	. 4	Δ	
	. 4			⊿ ∠	. 4

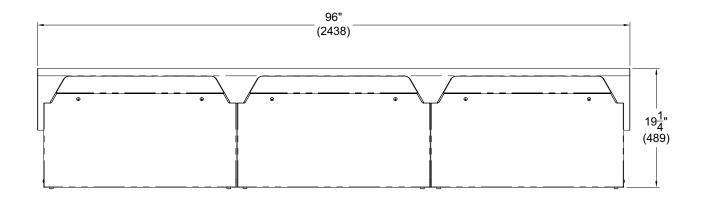




Please visit www.neo-metro.com for most current specifications.

DIMENSIONAL DATA - 9163







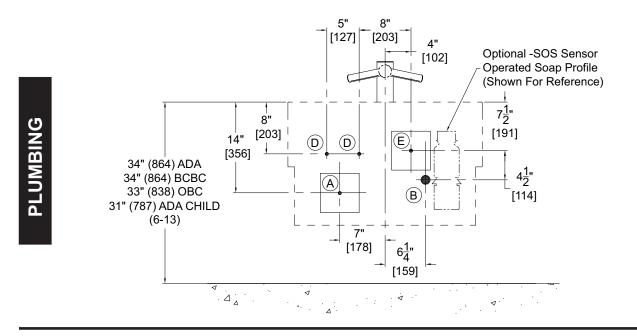


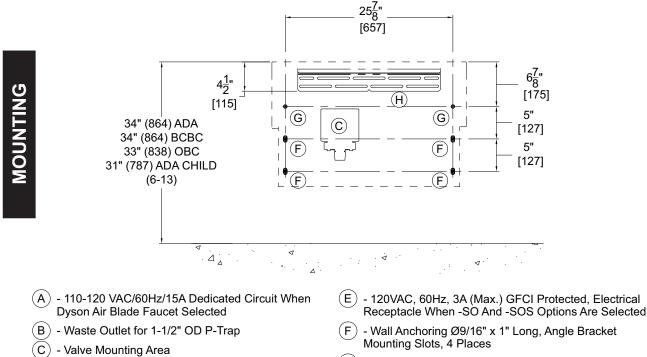


Please visit www.neo-metro.com for most current specifications.

9161 ROUGH-IN DIMENSIONS







- D Supply Stub-Outs With Stops For Valve 1/2" NPT Hot & Cold Supply Inlet
- (G) Wall Anchoring Ø9/16" Mounting Point, 2 Places
- (H) Mounting Hanger Plate With Ø3/8" Mounting Slots

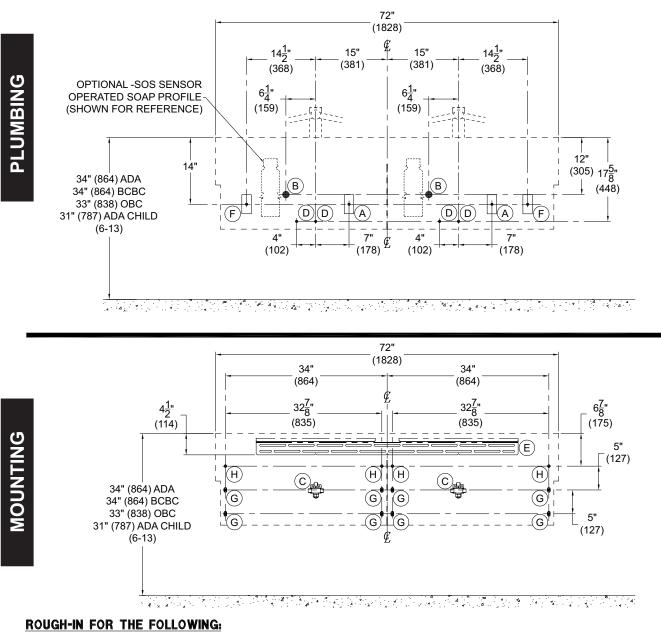
NEO-METRO®



Please visit <u>www.neo-metro.com</u> for most current specifications.

9162 ROUGH-IN DIMENSIONS





- (A) 110-120 VAC/60HZ/15A DEDICATED CIRCUIT WHEN DYSON AIR BLADE FAUCET SELECTED
- (B) WASTE OUTLET FOR 1-1/2" OD P-TRAP
- C VALVE MOUNTING AREA
- D SUPPLY STUB-OUTS WITH STOPS FOR VALVE 1/2" NPT HOT & COLD SUPPLY INLET
- (E) MOUNTING BRACKET WITH Ø3/8" MOUNTING SLOTS
- (F) 120VAC, 60HZ, 3A (MAX.) GFCI PROTECTED, ELECTRICAL RECEPTACLE WHEN -SO AND -SOS OPTIONS ARE SELECTED
- (G) WALL ANCHORING Ø9/16" X 1" LONG, ENCLOSURE MOUNTING SLOTS, 8 PLACES
- (H) WALL ANCHORING Ø9/16" MOUNTING POINT, 4 PLACES

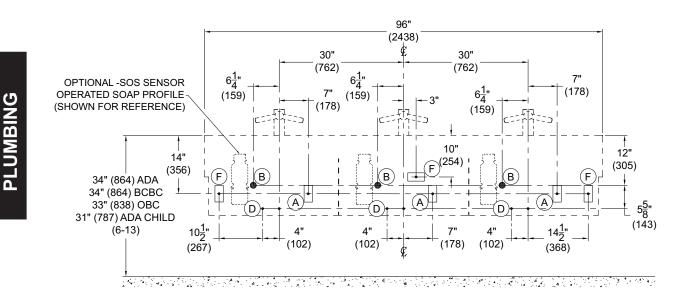
NEO-METRO®

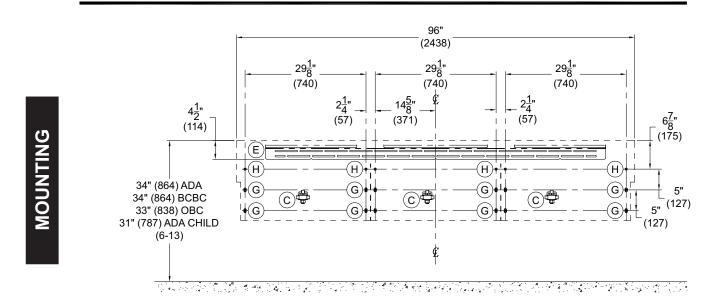


Please visit <u>www.neo-metro.com</u> for most current specifications.

9163 ROUGH-IN DIMENSIONS







ROUGH-IN FOR THE FOLLOWING:

- (A) 110-120 VAC/60HZ/15A DEDICATED CIRCUIT WHEN DYSON AIR BLADE FAUCET SELECTED
- (B) WASTE OUTLET FOR 1-1/2" OD P-TRAP
- C VALVE MOUNTING AREA
- D SUPPLY STUB-OUTS WITH STOPS FOR VALVE 1/2" NPT HOT & COLD SUPPLY INLET
- (E) MOUNTING BRACKET WITH Ø3/8" MOUNTING SLOTS
- (F) 120VAC, 60HZ, 3A (MAX.) GFCI PROTECTED, ELECTRICAL RECEPTACLE WHEN -SO AND -SOS OPTIONS ARE SELECTED
- (G) WALL ANCHORING Ø9/16" X 1" LONG, ENCLOSURE MOUNTING SLOTS, 12 PLACES
- (H) WALL ANCHORING Ø9/16" MOUNTING POINT, 6 PLACES

NEO-METRO[®]

NEO-METRO FIELD SERVICE TOLL FREE 800-743-8259 • LOCAL 626-855-4866 • FAX 626-855-4863

Part #: 6216-019-000

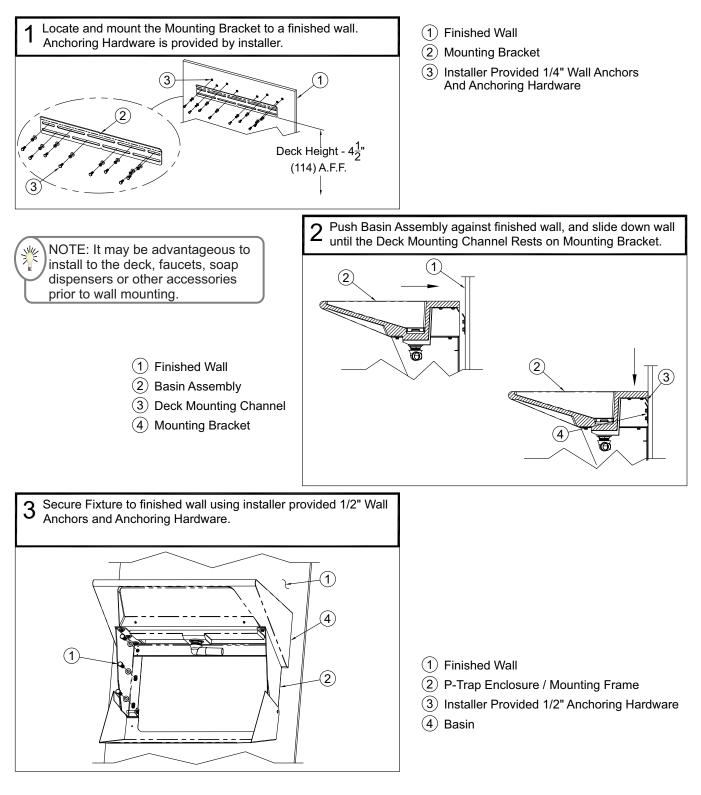
Page 9 of 18

Date: 06/10/19



Please visit www.neo-metro.com for most current specifications.

FIXTURE ANCHORING

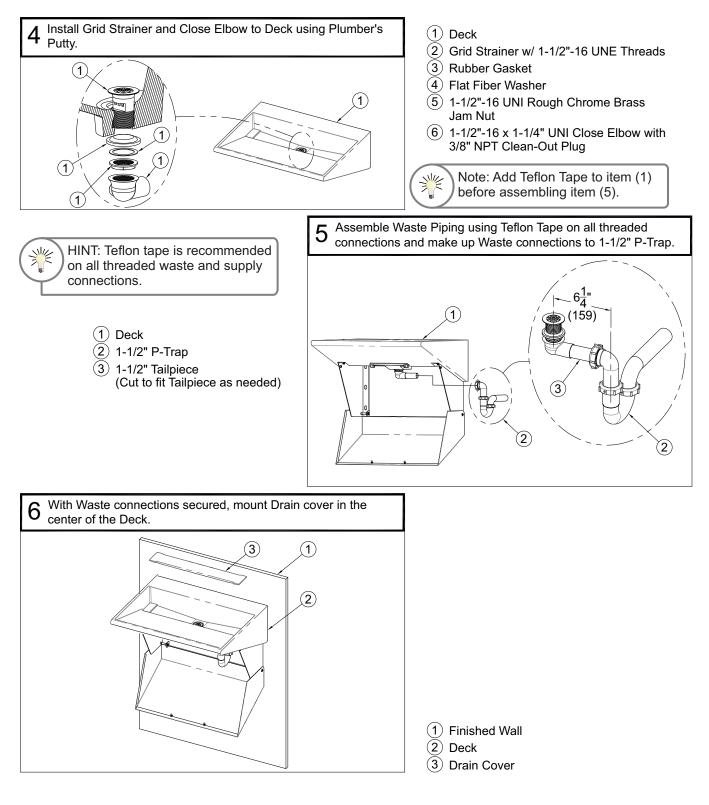






Please visit www.neo-metro.com for most current specifications.

WASTE PLUMBING





Please visit <u>www.neo-metro.com</u> for most current specifications.

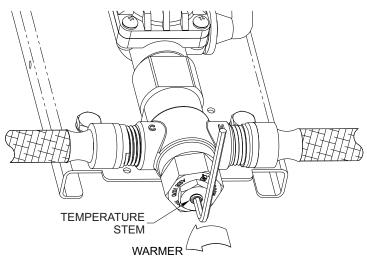
VALVE INSTALLATION & ADJUSTMENT

Valve Assembly Installation:

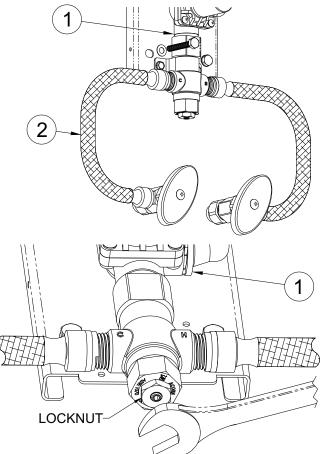
NOTE: Installation should be in accordance with accepted plumbing practices.

- Locate suitable place for mounting the valve assembly. Valve assembly should be accessible for service and adjustment and as close to the point-of-use as possible. Wall anchors and anchoring hardware are by others.
- Connect hot and cold water to supply valve using 1/2" NPTE connections by others.
- Connect outlet of tempering valve to spout using 1/2" NPT connections provided (Refer to pg.8).
- Turn on hot and cold water supplies. If any leaks are observed, hand-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.

HINT: Angle stops are recommended and is the responsibility of the installer.



Flush supply lines of all foreign material such as pipe dope, pipe chips, solder, sand etc. before making up supply connections.



Temperature Adjustment (For -MXTP Option):

- 1) Loosen locknut.
- 2) Turn on fixture and run water for at least 2 minutes. Allow supply temperature to stabilize.
- 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.

NEO-METRO[®]

NEO-METRO FIELD SERVICE TOLL FREE 800-743-8259 • LOCAL 626-855-4866 • FAX 626-855-4863

Part #: 6216-019-000

Page 12 of 18

• FAX 626-855-4863



Please visit <u>www.neo-metro.com</u> for most current specifications.

OPTIONAL ACCESSORY INSTALLATION & ASSEMBLY

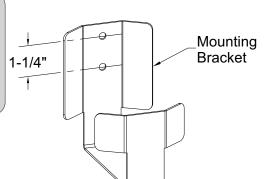
WARNING

Some soaps contain corrosive additives that can cause rust in soap dispensers. Acorn Engineering Company recommends user/ maintenance personnel review MSDS reports of soap and possible corrosive additives noted.

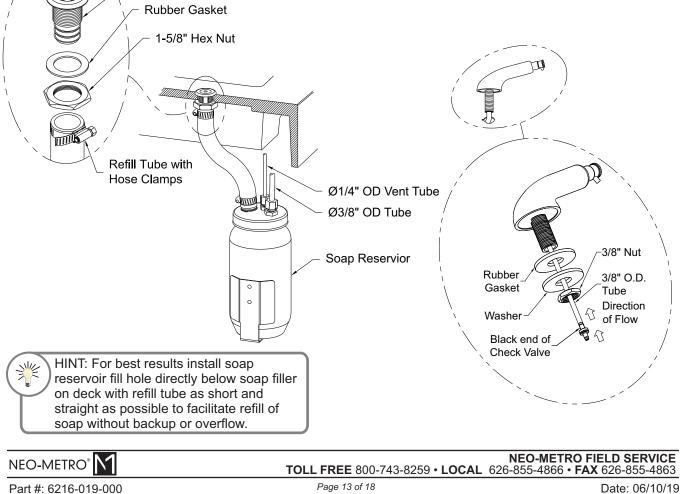
- A. Install soap reservoir to wall inside P-Trap enclosure using mounting brackets provided as shown. Wall anchors and anchoring hardware provided by installer.
- **B.** Install soap filler assembly to deck as shown.
- C. Attach 1-1/4" O.D. refill tube to soap filler assembly and soap reservoir with provided hose clamps.

Soap Filler Plug

Soap Filler Adapter



- D.Install soap dispenser(s) onto deck. NOTE: Gasket and Washer are located beneath the deck.
- E. Attach 3/8" O.D. Tubing to the dispenser(s) and reservoir. NOTE: Check Valve must be field spliced into tubing and installed with respect to direction of flow.

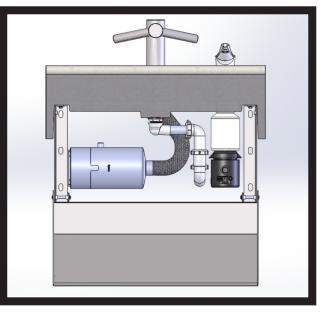




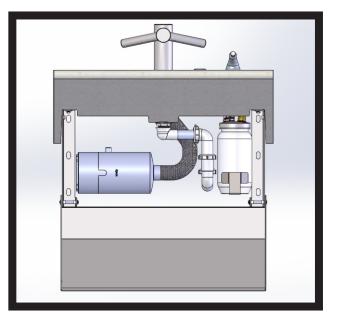
Please visit <u>www.neo-metro.com</u> for most current specifications.

TYPICAL FINISHED LAYOUTS

(9161 SHOWN FOR REFERENCE)



MODEL #9161-WD04-SOS



MODEL #9161-WD04-PDM



NEO-METRO FIELD SERVICE TOLL FREE 800-743-8259 • LOCAL 626-855-4866 • FAX 626-855-4863



Please visit www.neo-metro.com for most current specifications.

TROUBLE SHOOTING FOR 9 VOLT DC SENSOR OPERATED VALVES

Normal Valve Function: 9 Volt DC sensor operated valve has flow time of 90 seconds maximum. To reactivate, the user must move out of and return to the sensing area.

CONDITION: WATER DOES NOT FLOW					
Indicators	Probable Cause	Solution			
Sensor flashes continuously every 2 seconds when hands are within range.	Low battery warning	Replace battery			
	Circuit breaker tripped.	Reset circuit breaker			
	Battery completely used up.	Replace battery			
	Defective 9V DC transformer	Replace transformer.			
Sensor does not flash	Transformer polarity crossed	Replace transformer (sensor may be damaged and need replacement).			
when the user's hands are within range.	Unit is in "Security Mode" after 90 seconds of constant detection.	Remove sources of detection and wait 30 seconds before checking.			
	Range is too short.	Increase range.			
	Range is too long.	Decrease range and wait 30 seconds.			
	Sensor is picking up a highly reflective surface.	Eliminate cause of reflection and wait 30 seconds before checking.			
	Defective sensor.	Replace sensor.			
	Stops or water main closed.	Open stops or water main.			
Sensor flashes once	Bad sensor to solenoid connection.	Ensure wires make proper contact.			
when user's hands are within range.	Debris or scale in solenoid assembly.	Remove solenoid, pull out plunger and spring, and clean with scale remover solution or pressurized air.			
	Debris or scale in diaphragm.	Remove diaphragm and clean			
	Debris or scale in strainer.	Remove strainer and clean.			
CONDITION: FALSE TRIGGED WATER FLOWS CONTINUOU	RING; SLY				
Indicators	Probable Cause	Solution			
Sensor flashes when user's	Debris or scale in diaphragm	Remove diaphragm and clean.			
hands are within range.	Diaphragm is defective or torn.	Replace diaphragm.			
Sensor does not flash when	Sensor is dirty or covered.	Clean or uncover sensor and wait 30 seconds.			
users hands are within range.	Range too long or highly reflective surface, sunlight, bright lights etc. are triggering sensor.	Decrease range and wait 30 seconds. Eliminate cause of reflection or correct lighting problem.			
CONDITION: WATER FLOWS CONTINUOUSLY BUT STOPS WHEN HANDS ARE WITHIN F					
Indicators	Probable Cause	Solution			
Water runs continuously when sensor not activated. Sensor flashes when hands are within range and water shuts off.	Solenoid polarity crossed.	Disconnect solenoid and reverse polarity.			

NEO-METRO®



Please visit <u>www.neo-metro.com</u> for most current specifications.

TROUBLE SHOOTING FOR OPTIONAL PUSHBUTTON OPERATED VALVES

Normal Valve Function: Hand pushbutton ope 5 to 60 seconds.	rated valve has an adjustable flow time from				
CONDITION: WATER DOES NOT FLOW					
Probable Cause	Solution				
Water main closed.	Open water main.				
Checkstops closed.	Open checkstops.				
Debris or scale in checkstop strainer	Remove checkstop strainer and clean.				
Air leaks from 1/8" O.D. tubing or fittings.	Replace damaged tubing or fitting.				
Pushbutton air diaphragm leaks.	Replace pushbutton air diaphragm.				
Servomotor diaphragm center hole is blocked.	Remove blockage.				
Servomotor upper diaphragm is damaged.	Replace servomotor upper diaphragm.				
Low or no water pressure at supplies.	Increase water pressure to 30 PSI minimum.				
CONDITION: WATER DRIPS, WON'T SHUT OFF					
Probable Cause	Solution				
Servomotor diaphragm offset hole is blocked.	Remove blockage.				
Servomotor seat is damage	Replace servomotor seat.				
Servomotor plate or diaphragm is obstructed.	Remove cause of obstruction.				
Servomotor timer assembly is damaged.	Replace servomotor timer assembly.				
CONDITION: REDUCED WATER FLOW					
Probable Cause	Solution				
Valve riser tubing is crimped.	Straighten valve riser tubing.				
Debris or scale in checkstop strainer	Remove checkstop strainer and clean.				
Blockage in valve flow control.	Remove blockage.				
Blockage in valve flow control. Low water pressure at supplies.	Increase water pressure to 30 PSI minimum.				
Low water pressure at supplies.	Increase water pressure to 30 PSI minimum. Remove lime deposits with appropriate cleaning solution.				
Low water pressure at supplies. Lime deposits in hot water pipes.	Increase water pressure to 30 PSI minimum. Remove lime deposits with appropriate cleaning solution.				
Low water pressure at supplies. Lime deposits in hot water pipes. CONDITION: PREMATURE WATER SHUT OF	Increase water pressure to 30 PSI minimum. Remove lime deposits with appropriate cleaning solution.				

NEO-METRO[®]



Please visit <u>www.neo-metro.com</u> for most current specifications.

CARE, CLEANING, AND REPAIR **OF CORTERRA SOLID SURFACE**

CORTERRA SOLID SURFACE

Acorn's densified solid surface material is composed of recycled solid-surface polymer resin, aluminum trihydrate and fillers. It is resistant to stains, impact and burns and complies with ANSI Z124.3. It is attractive, durable and easy to maintain.

ROUTINE CLEANING

Corterra should be kept clean at all times. If maintained, Corterra surfaces will retain their new, clean appearance indefinitely. Wash with a non-abrasive all purpose cleaner and water, then rinse. Wipe dry. (Never use cleaners with strong chemicals such as toilet bowl cleaners, rust removers, ceramic cook top cleaners, laquer thinners or oven cleaners). To remove persistent stains use a Scotch Brite pad and an abrasive cleaner or a solution of household bleach and water (1 part water to 1 part bleach).

REPAIRING SURFACE DAMAGE

Surface damage, such as minor chips, scratches, burn marks and graffiti can be repaired with a fine grit abrasive cleanser, such as a Scotch-Brite pad or fine grit sandpaper. For more serious physical damage caused by vandals, an Acorn Solid Surface Repair Kit is available. Contact the factory for details. Refer to drawing #9927-160-002.

SOAP SYSTEMS

Acorn soap reservoirs and dispensers provide a dependable operation over long term when proper maintenance is performed and the correct soap is being used. The most common problem with soap systems is that the wrong viscosity (thickness) of soap is being used or high acidic pH levels are in the ingredients. Soap thickness can be best explained as no thicker or thinner than normal household liquid dish soap. The pH level of the soap should be 6.5 to 8.5; more acidic soaps will corrode the metal parts and degrade rubber or plastic components.

Soap reservoirs and dispensers should be maintained periodically to clear residue. This should be done in hot water to clean the internal components. The valve should be pumped multiple times to thoroughly clean any residue inside. The reservoir and tubing should also be flushed and cleaned with hot water. In cases of extreme clogs, the dispenser should be disassembled and the parts thoroughly cleaned.

WARNING: Some soap contains corrosive additives that can cause rust on stainless steel surfaces. Acorn recommends user/ maintenance personnel review MSDS reports of soap and possible corrosive additives noted.

CARE AND CLEANING OF STAINLESS STEEL SURFACE

NORMAL CLEANING

Clean weekly or more often, as needed (especially high polishing surfaces)

RECOMMENDED CLEANING MATERIALS

- Sponge natural or artificial
- Nylon or other soft-bristle material brush
- Soft cloth (as used on automobile finishes)



NEO-METRO FIELD SERVICE TOLL FREE 800-743-8259 · LOCAL 626-855-4866 · FAX 626-855-4863

Part #: 6216-019-000

RECOMMENDED CLEANING SOLUTIONS

- Hand dishwashing liquid/soft water solution
- Mild soap/soft water solution
- 3M Stainless Steel Cleaner/Polish
- White vinegar/soft water solution (for brightening, removing oil and hard water deposits)
- CLR Brand Cleanser or baking soda/soft water solution (for brightening, removing hard water deposits)
- Club soda and sponge

FOR HIGH POLISH STAINLESS STEEL

Note: High polish stainless steel surfaces should never come into contact with any abrasive cleaning brush, cloth or cleaning agent.

To remove smudges and fingerprints:

Wipe surfaces with a quality Stainless Steel Cleaner/Polish. Apply using a soft non-abrasive cloth, wipe surfaces with stainless steel cleaner/polish.

To remove rust stains: Wipe surfaces with CRES (available from Acorn) or equivalent cleaner. Use recommended solutions. Apply using a soft non-abrasive sponge. Rinse surfaces immediately after application. Always follow cleaner product directions provided. Afterwards, using a soft, non-abrasive cloth, wipe surfaces with stainless steel cleaner/polish.

FOR TOUGH PROBLEMS

- CRES Cleaner specifically for rust stains (available from Acorn)

- Tarn-X for general stains
- #7 chrome polish
- Silver polish

To remove stubborn spots or to treat a scratch (Standard Satin Finish Only):

Use of synthetic, abrasive, general-purpose pads such as Scotch Brite is recommended. Apply the stainless steel cleaner/polish to the synthetic, abrasive pads and CAREFULLY rub out spot with cleaner/ polish. Be sure to rub in the direction of the grain! Do not allow steel wool to come in contact with the stainless steel. Steel particles can embed into the stainless steel surface and create rust!

Stainless steel should be kept clean at all times. If maintained, stainless steel surfaces will retain their new, clean, polished appearance indefinitely. To remove water spots or rust spots, stainless steel cleaner/polish on a cloth is recommended.

IF SPOTS ARE STUBBORN OR IF YOU WISH TO TREAT A SCRATCH: synthetic, abrasive, general-purpose pads such as Scotch Brite are recommended. Apply the stainless steel cleaner/polish to the synthetic, abrasive pad and CAREFULLY rub out spot with cleaner/polish. Be sure to rub in the direction of the grain! Do not allow steel wool to come in contact with stainless steel. Steel particles can embed into the stainless steel surface and create rust.



Please visit <u>www.neo-metro.com</u> for most current specifications.



ACORN ENGINEERING COMPANY

Manufacturers of Engineered Plumbing Products

MAIL ADDRESS P.O. BOX 3527 CITY OF INDUSTRY, CA 91744 U.S.A.

PHYSICAL ADDRESS 15125 PROCTOR AVENUE CITY OF INDUSTRY, CA 91746 U.S.A.

TOLL FREE 800-488-8999 • LOCAL 626-336-4561 FAX 626-961-2200 • WEB www.acorneng.com

WARRANTY INFORMATION

Acorn warrants that all of its products are guaranteed against defective material or poor workmanship for a period of one year from date of shipment. Acorn's liability under this warranty shall be discharged by replacing without charge F.O.B. City of Industry, California, any goods, or part thereof, which appears to the company upon inspection to be of defective material or not of first class workmanship, provided that claim is made in writing to the company within reasonable period after receipt of the product. Where claims for defects are made, the defective part or parts shall be delivered to the company, prepaid, at City of Industry, California for inspection. Acorn will not be liable for the cost of repairs, alterations or replacement, or for any expense connected therewith made by the owner or his agents, except upon written authority from the Acorn City of Industry office. Acorn will not be liable for any damages caused by defective materials or poor workmanship, except for replacements, as above provided. Contact local Acorn Representative for complete terms and conditions.



NEO-METRO FIELD SERVICE TOLL FREE 800-743-8259 • LOCAL 626-855-4866 • FAX 626-855-4863