

A172FGVR Series
Barrier Free, 14 Gage Stainless Steel, Enhanced
Vandal Resistance, Bi-Level, Wall Mounted Drinking Fountain



A172400S-FG-VR/A172400S-FG-VR-RBL

TECHNICAL ASSISTANCE TOLL FREE TELEPHONE NUMBER:

1.800.743.8259

Technical Assistance E-Mail: fieldservice@acorneng.com

NOTES TO INSTALLER:

1. Please leave this documentation with the owner of the fixture when finished.
2. Please read this entire booklet before beginning the installation.
3. Check your installation for compliance with plumbing, electrical and other applicable codes.

For current Warranty click hyperlink [Product Warranty](#) or visit: www.murdockmfg.com/terms-and-warranty

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COMPLIES WITH
STANDARDS



NSF/ANSI 61



Federal
Public Law
111-380
(No Lead)



Member of



murdock[®]
SINCE 1853

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CA, 91746 U.S.A.
Phone 800-453-7465

7020-930-001

Date: 01/31/2024 A

www.murdockmfg.com

IMPORTANT

This Fixture is intended for indoor use only and is not suitable for installation outdoors or in an area where a water jet could be used as well as in environments where freezing may occur.

NOTE: A dielectric coupling must be used to connect the drinking fountain to the water supply. A nonmetallic coupler is furnished with this drinking fountain to meet this requirement.

ROUGHING-IN AND DIMENSIONAL DRAWING

Prior to roughing consult with local, state, and federal codes for proper mounting height. All installation and service may only be performed by authorized personnel. No unauthorized persons shall have access to the service area.

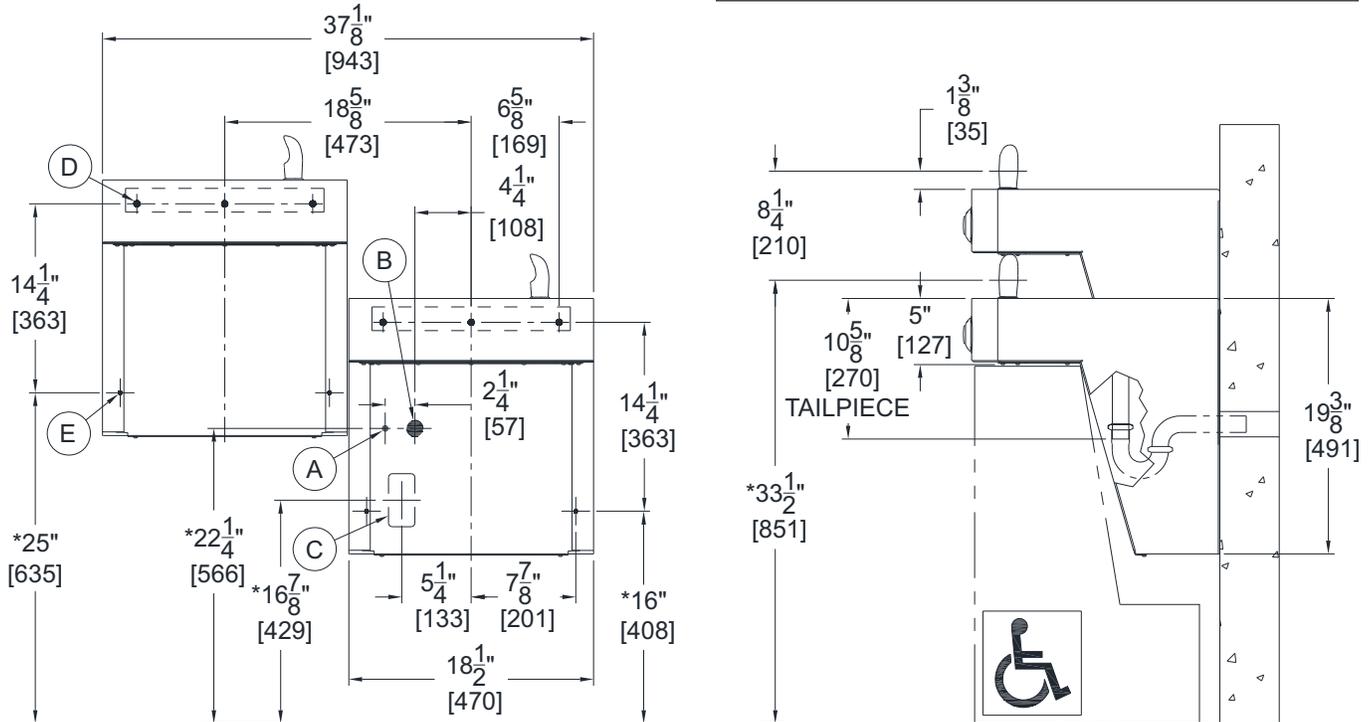
A172400FGVR Wall Mounted Drinking Fountain

- A. 3/8" NCT SUPPLY INLET
- B. WASTE OUTLET FOR 1-1/4" P-TRAP BY OTHERS
- C. ELECTRICAL SERVICE ROUGH. SEE NOTE.
- D. Ø3/8" HANGER BRACKET PUNCHING, 3 PLACES FOR ANCHORING HARDWARE BY OTHERS
- E. Ø1/4" PUNCHING, 2 PLACES, ANCHORING HDWR BY OTHERS

Electrical Requirements (Non Chilled):

For Units to be used with Sensor Bottle Filler (only):
(Bottle Filler Sensor Model BF2S)

- Provide Duplex Receptacle on GFCI Protected Circuit
- 115VAC, 60Hz, 1A



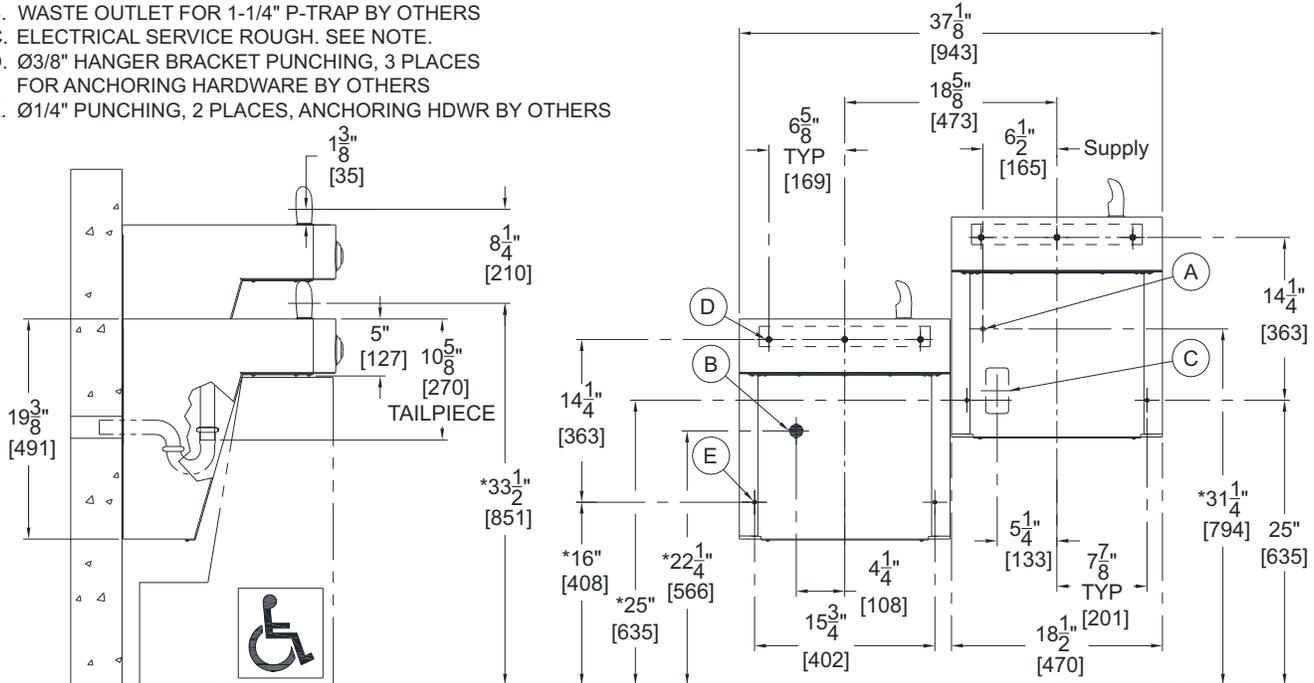
GENERAL NOTES:

1. ALL DIMENSIONS ARE IN INCHES [MM]
- *2. DIMENSIONS SHOWN ARE FOR RECOMMENDED ADULT HEIGHT. ADJUST VERTICAL DIMENSIONS AS NECESSARY TO COMPLY WITH FEDERAL, STATE, & LOCAL CODES
3. STOP VALVE & P-TRAP NOT SUPPLIED
4. IMPORTANT: UNITS MUST BE ATTACHED TO WALL WITH APPROPRIATE WALL ANCHOR SCREWS

NOTES: Dimensions indicated * are for ADA frontal approach installation. Adjust vertical dimension * as required to comply with federal, state, and local codes. For Child ADA compliant parallel approach, decrease spout height to 30" maximum above finished floor. Compliance is subject to the interpretation and requirements of the local Code Authority.

A172400FGVR Wall Mounted Drinking Fountain- Reverse Bi-Level
(NOTE! Alternate Configuration shown Left Unit Low with Right Unit High)

- A. 3/8" NCT SUPPLY INLET
- B. WASTE OUTLET FOR 1-1/4" P-TRAP BY OTHERS
- C. ELECTRICAL SERVICE ROUGH. SEE NOTE.
- D. Ø3/8" HANGER BRACKET PUNCHING, 3 PLACES FOR ANCHORING HARDWARE BY OTHERS
- E. Ø1/4" PUNCHING, 2 PLACES, ANCHORING HDWR BY OTHERS



REFER TO ROUGH-IN ON PREVIOUS PAGE FOR ADDITIONAL NOTES AND CALLOUTS.

PRIOR TO INSTALLATION:

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

- Fixture mounting requirements: industry standard wall construction, adequate to support the fixture and installer provided wall anchors sufficient to secure the fixture.
- Inspect fixture and all parts from damages.

IMPORTANT:

1. Waste P-Trap, Water Supply Service Angle Stop Valve to be supplied by others in accordance with local codes. A metallic p-trap (by others) must be used for the drain connection.
2. Water supply is 3/8" Outer Diameter copper tube. Waste is 1-1/4" Outer Diameter.
3. Completely flush supply lines of all foreign debris before connecting to fixture. Drinking fountain is designed to not cause problems with taste, odor, color, or sediment. Optional water filter (WF1) is available should any of these problems arise from the water supply.
4. Do NOT solder tubes inserted into the coupler as damage to the o-ring may result.
5. All burrs must be removed from outside of cut tubes before inserting into coupler or other components.
6. **Warranty is voided** if installation is not made following current Murdock Mfg. installation instructions and if components are assembled to the fixture that is not approved by Murdock Mfg.
7. Fixture is to operate within a water pressure range of 20 PSIG (138 kPa) to 105 PSIG (724 kPa). Warranty is void if the unit is allowed to operate outside the range of 20 PSIG (138 kPa) to 105 PSIG (724 kPa). **Consult with UPC and local codes for maximum allowable water pressures.**
8. Per UPC 609.10- *All building water supply systems in which quick acting valves are installed shall be provided with devices to absorb the hammer caused by high pressure resulting from the quick closing of the valve. These pressure-absorbing devices shall be approved mechanical devices. Water pressure-absorbing devices will be installed as close as possible to the quick closing valve.*

INSTALLATION:

1. Mount hanger bracket to wall horizontally level as shown in Roughing-In and Dimensional Drawing.
Note: Adjust height of bracket if bubbler outlet height is required to vary from that shown. Hanger Bracket **MUST** be securely anchored to wall fasteners sufficient to support 3 times weight of cooler. If wall can not provide adequate support, order and install optional fixture support carrier.
2. Remove the access panel from the drinking fountain and set aside in a safe place. Save the screws in a secure location for re-use in later stages of installation.
3. Hang the drinking fountain on the hanger bracket, ensuring the bracket tabs engage **AND** seat in the slots in the back of the drinking fountain. Verify drinking fountain is level, left to right **AND** front to back from bottom of unit. **NOTE:** The bubbler stream may be adversely affected if unit is not square and level. Bottom of unit and louvers should be used as reference to verify unit is square and plumb.
4. Anchor drinking fountain to wall at other mounting points in base. Shim lower rear mounting points to level unit if necessary.
5. Thoroughly flush the 3/8" O.D. supply line and then connect drinking fountain to water supply angle stop valve (by others) with supplied 3/8" O.D. copper tube.
6. Make up 1-1/4" O.D. p-trap (by others) waste connection.

START UP:

1. Before assembling access panel to drinking fountain, but after thoroughly flushing the supply line and connecting it to the fixture, turn on building water supply and check all connections for leaks.
2. Air within the drinking fountain system or the structure supply piping will cause an irregular bubbler outlet stream until purged out by incoming water. Covering the bubbler with a clean cup (or similar object) is recommended when first activating drinking fountain to prevent excessive splashing. Depress the pushbutton until steady water stream is achieved.
3. If water flow requires adjustment, insert a slotted narrow blade screwdriver in the hole centered on the underside of the fixture in the knee clearance area up to the flow regulator. Turning clockwise will increase flow and turning counterclockwise will decrease flow.
4. Recheck all water and drain connections with water flowing through system.

IMPORTANT! Thoroughly, inspect all unit connections for water leaks.

5. Assemble access panel to drinking fountain with screws furnished.

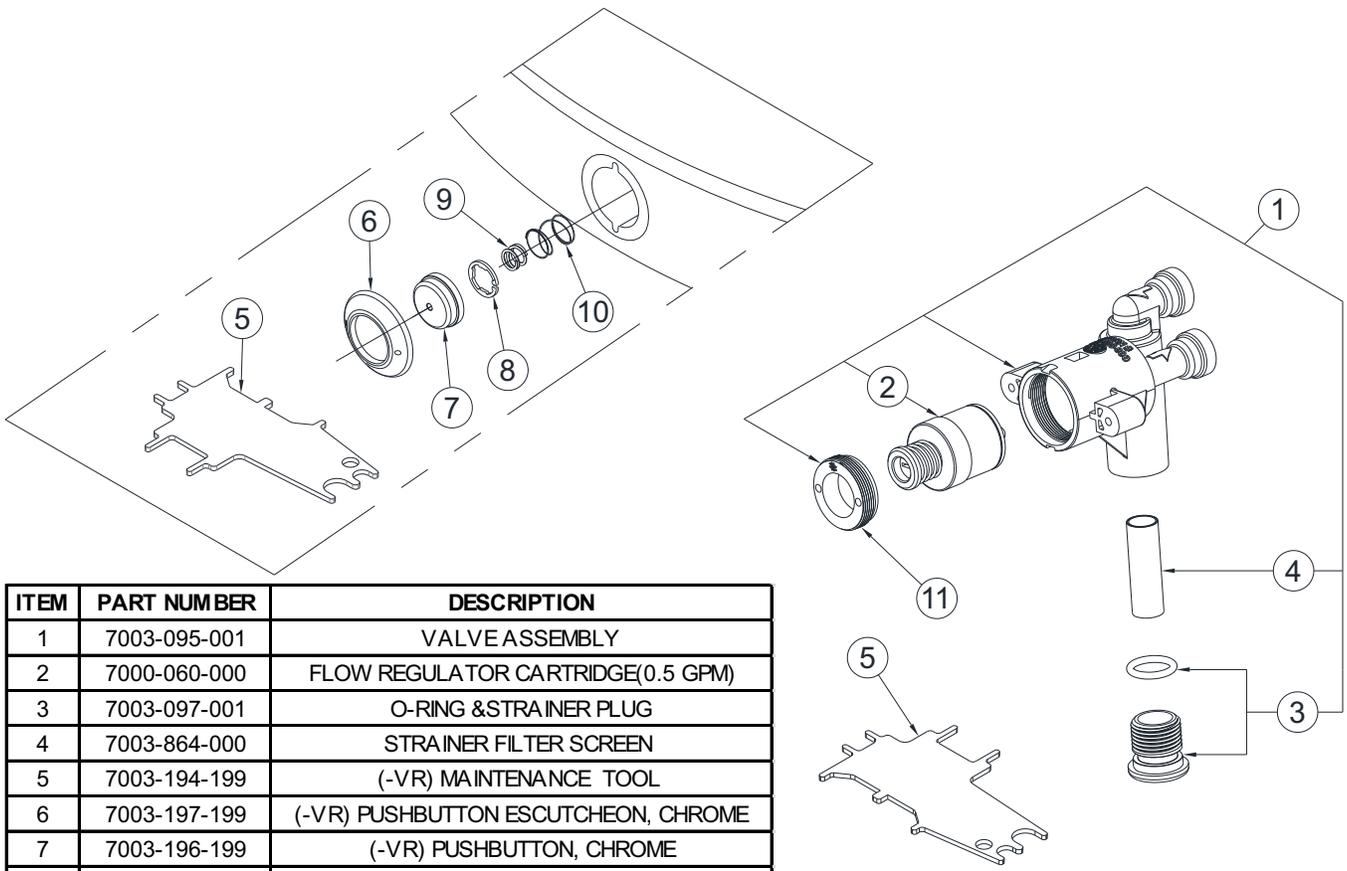
CLEANING & MAINTENANCE GUIDE:

1. Periodically remove and clean out auto stop strainer.
2. Do **NOT** use harsh chemicals, abrasive or petroleum based cleaners. Use of these will void the Murdock warranty.
3. Exterior panels can be cleaned using mild household detergents or warm, soapy water. Extra care must be used cleaning chrome plated items and mirror finished stainless steel. They can scratch easily and should only be cleaned using a clean, soft cloth and mild soap with water or a mild glass cleaner.

-VR CARTRIDGE REPLACEMENT/ STRAINER MAINTENANCE

Note: Use the -VR maintenance tool to perform the following:

1. Strainer plug (3) **must** be removed before cartridge replacement and strainer maintenance (no need to turn the water off at the angle stop). Some residual water will drain during plug removal.
2. Clean strainer (4) as needed using clean water.
3. Cartridge replacement - Rotate and remove -VR pushbutton escutcheon (6) to release pushbutton (7) and springs (9) (10) to access cartridge.
4. Remove cartridge retaining nut (11). Remove and replace cartridge (2). When replacing cartridge be sure to align the inlet and outlet ports on the cartridge with the ports in the valve body.
5. Install item (11) using maintenance tool (5) (Be careful not to over tighten)
6. Install button assembly items (6) (7) (8) (9) (10) using maintenance tool (5). Ensure springs are fully seated onto button.
7. Reinstall strainer (4) and plug (3) using maintenance tool (5).



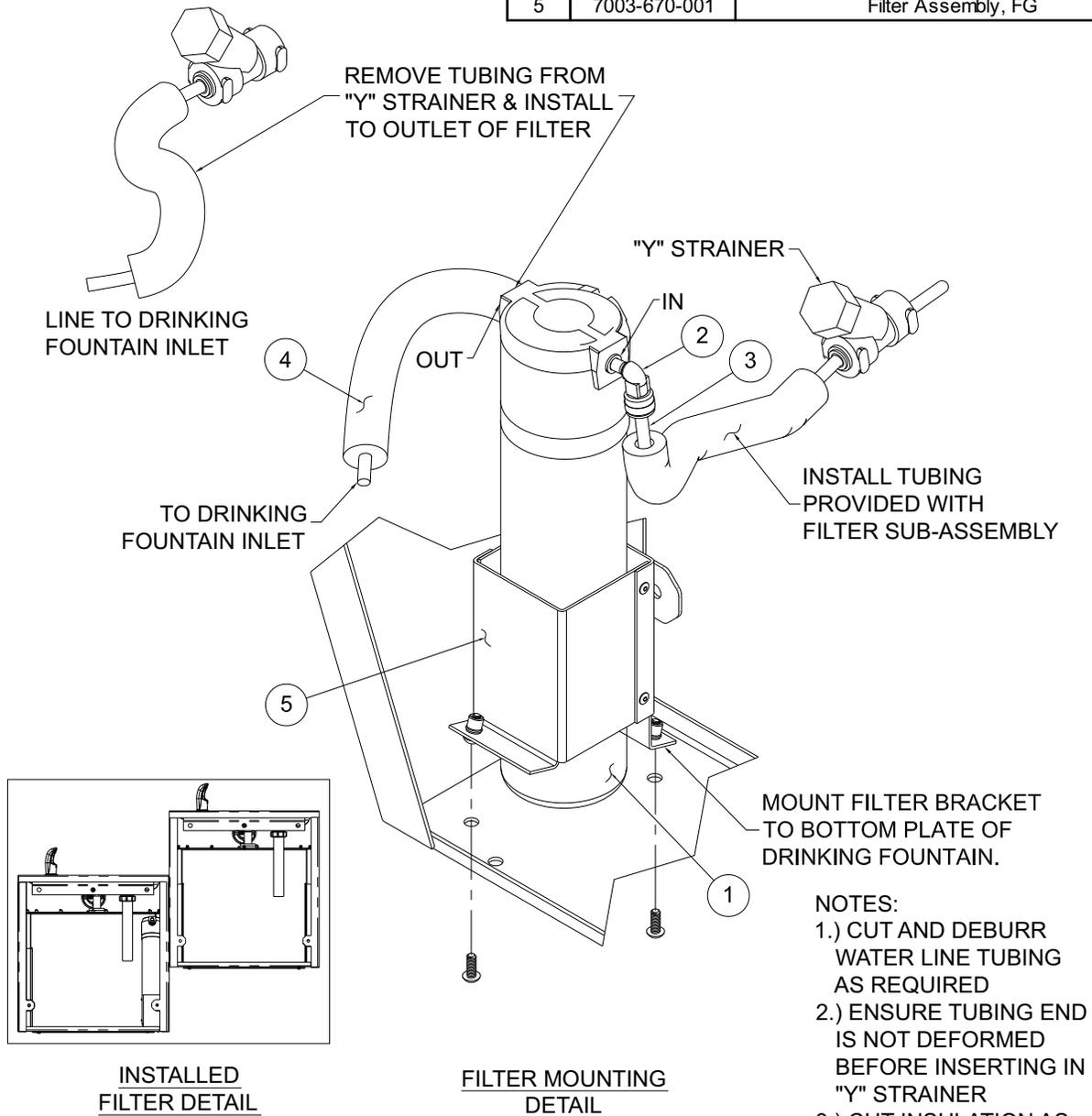
ITEM	PART NUMBER	DESCRIPTION
1	7003-095-001	VALVE ASSEMBLY
2	7000-060-000	FLOW REGULATOR CARTRIDGE(0.5 GPM)
3	7003-097-001	O-RING & STRAINER PLUG
4	7003-864-000	STRAINER FILTER SCREEN
5	7003-194-199	(-VR) MAINTENANCE TOOL
6	7003-197-199	(-VR) PUSHBUTTON ESCUTCHEON, CHROME
7	7003-196-199	(-VR) PUSHBUTTON, CHROME
8	7003-192-199	SPACER, -VR-FG PUSHBUTTON SPRING
9	7003-195-000	(-VR) PUSHBUTTON OVERTRAVEL SPRING
10	7003-193-000	(-VR) PUSHBUTTON RETURN SPRING
11	7000-052-000	RETAINING NUT

**NOTE: STRAINER FILTER SCREEN
MUST BE IN PLACE FOR
WATER TO FLOW.**

OPTIONAL -WF1 WATER FILTER

See the following page for models with -WF1 Water Filter (A172-FG-VR-WF1)

ITEM	PART NUMBER	DESCRIPTION
1	7012-313-000	RWF1 Filter 1500 Gal
2	1895-709-000	Elbow, Push in, 1/4" O.D. x 1/4" Stem
3	2169-000-000	1/4" O.D. LLDPE Tubing, Blue
4	7012-055-000	Foam Pipe Insulation
5	7003-670-001	Filter Assembly, FG



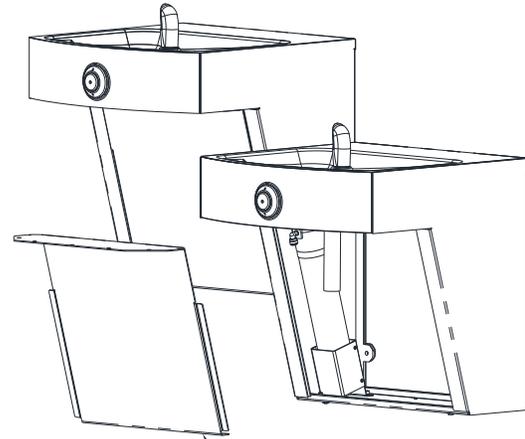
- NOTES:**
- 1.) CUT AND DEBURR WATER LINE TUBING AS REQUIRED
 - 2.) ENSURE TUBING END IS NOT DEFORMED BEFORE INSERTING IN "Y" STRAINER
 - 3.) CUT INSULATION AS REQUIRED TO COVER WATER TUBING

OPTIONAL -WF1 WATER FILTER

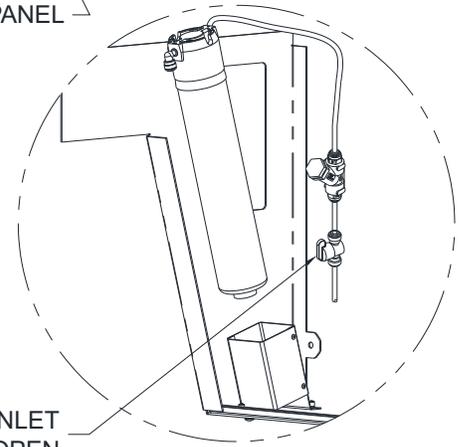
See the following page for models with -WF1 Water Filter (A172-FG-VR-WF1)

FILTER CARTRIDGE REPLACEMENT:

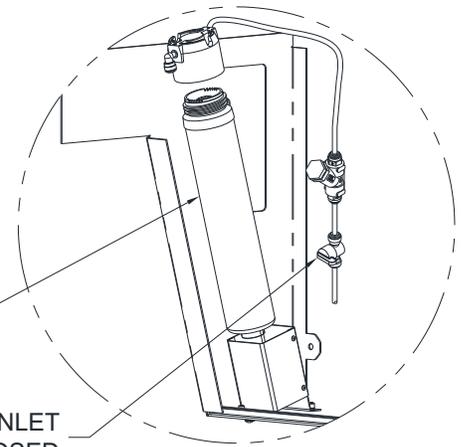
1. Remove access panel, this allows access to the filter and the water inlet valve (provided by others). Turn valve knob 1/4 turn clockwise to close.
2. Slowly lift water filter from the water filter bracket assembly.
3. With the water filter removed from the bracket assembly, hold the cap firmly. Turn the replaceable cartridge filter counterclockwise to remove.
4. Remove and replace the cartridge turning clockwise to secure.
5. Re-insert the water filter into the water filter bracket assembly.
6. Turn water inlet 1/4 turn knob 1/4 turn counterclockwise to open and test for leaks and proper operation before closing access panel.



ACCESS PANEL



WATER INLET VALVE OPEN



REPLACEMENT CARTRIDGE

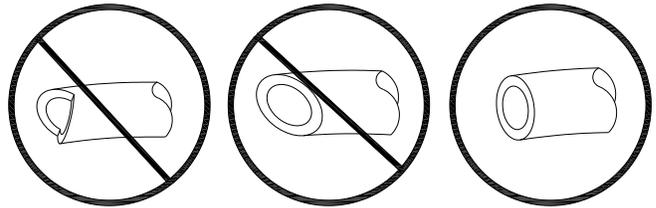
WATER INLET VALVE CLOSED

PUSH-IN FITTING INSTALLATION

NOTE: FITTINGS AND TUBE SHOULD BE KEPT CLEAN, BAGGED AND UNDAMAGED PRIOR TO INSTALLATION.

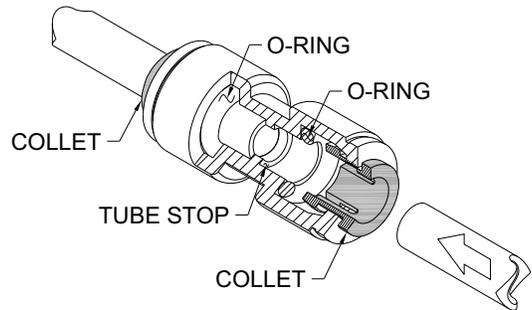
TO CUT TUBE:

Cut to fit length of 1/4" PE tubing and remove any burrs or sharp edges. Ensure that the outside diameter is free from score marks. Tube ends should be square.

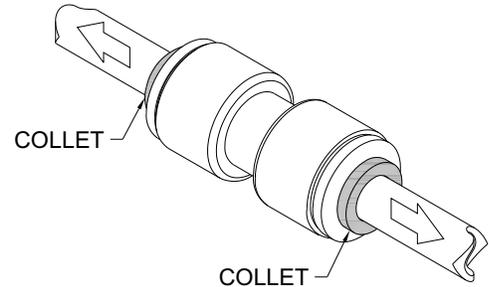


INSERTING THE TUBE:

1. Firmly and fully insert the tubing end into the push-in fitting up to the tube stop located approximately 1/2" deep.

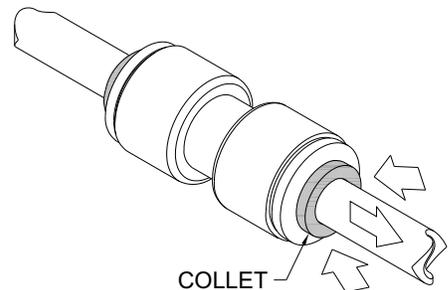


2. Pull on the fitted tubing to ensure it is secure. Tube should not come free from the fitting. Water test the connection assembly prior to leaving the site to ensure there are no leaks.



DISCONNECTING THE TUBE:

To disconnect the tube from the fitting ensure that the water line is depressurized. Push collet square towards the push-in fitting body and hold. While holding the collet in, pull on the PE tubing to remove from the push-in fitting.



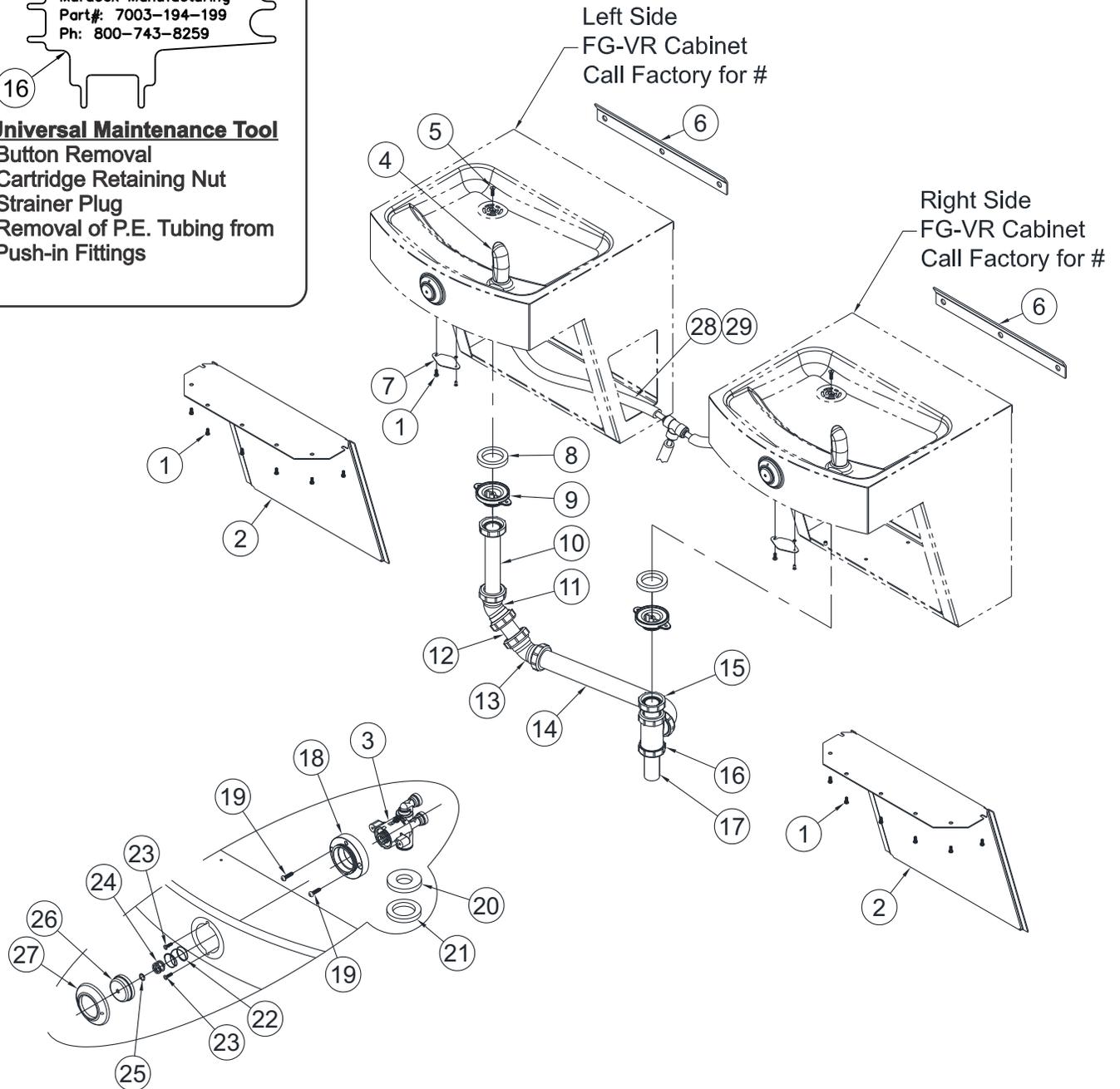


Murdock Manufacturing
Part#: 7003-194-199
Ph: 800-743-8259

16

Universal Maintenance Tool

- Button Removal
- Cartridge Retaining Nut
- Strainer Plug
- Removal of P.E. Tubing from Push-in Fittings



NOTE: See next page for table of part numbers corresponding to drawing above.

FOUNTAIN PARTS BREAKDOWN TABLE

NOTE: See previous page for fixture drawing corresponding to table of parts below.

ITEM #	PART NUMBER	DESCRIPTION
1	0112-002-000	10-32 x 1/2" Center Reject Hex Button Head Screw
2	7003-681-199	Access Panel
3	7003-095-001	Valve Assembly
4	7000-012-001	Stainless Steel Bubbler Assembly
5	0152-006-000	10-32 x 3/4" Center Reject Allen Flat head Screw
6	7003-635-199	FG-VR Hanger Bracket
7	7003-681-299	Access Plate, (-VR) Auto-Stop
8	7000-006-000	Flat Drain Adapter Gasket
9	7000-005-199	Drain Adapter
10	7000-019-001	1-1/4" Tailpiece Assembly
11	7003-073-000	1 1/4" x 1-1/2" Compression 45° Elbow
12	1758-043-299	1-1/2" O.D. x 3" Long Drain Tube
13	7003-072-000	1-1/2" x 1-1/2" Compression 45° Elbow
14	1758-043-199	1-1/2" O.D. x 15" Long Waste Arm
15	7000-032-001	1-1/4" x 1-3/4" Long Drain Tube
16	7003-070-000	1-1/2" Compression Tee
17	7000-032-299	1-1/4" O.D. Brass Waste Tailpiece
18	7003-198-199	(-VR) Pushbutton Mounting Sleeve
19	0124-055-000	#8 x 3/4" Phillips Round Head S/S SM Screw
20	7003-199-000	Auto-Stop Condensation Gasket, Upper
21	7003-200-000	Auto-Stop Condensation Gasket, Lower
22	7003-193-000	(-VR) Pushbutton Return Spring
23	0161-062-000	#6-32 x 1/2" S/S Phillips Flat Head Screw
24	7003-195-000	(-VR) Pushbutton Overtravel Spring
25	7003-192-199	(-VR) Pushbutton Spring Spacer
26	7003-196-199	(-VR) Pushbutton, Chrome
27	7003-197-199	(-VR) Pushbutton Escutcheon, Chrome
28	2169-000-000	1/4" O.D. Tubing, Blue
29	7012-055-000	Tube Insulation

Repairs must be made with Murdock Manufacturing parts only. Please order through your local representative or distributor.