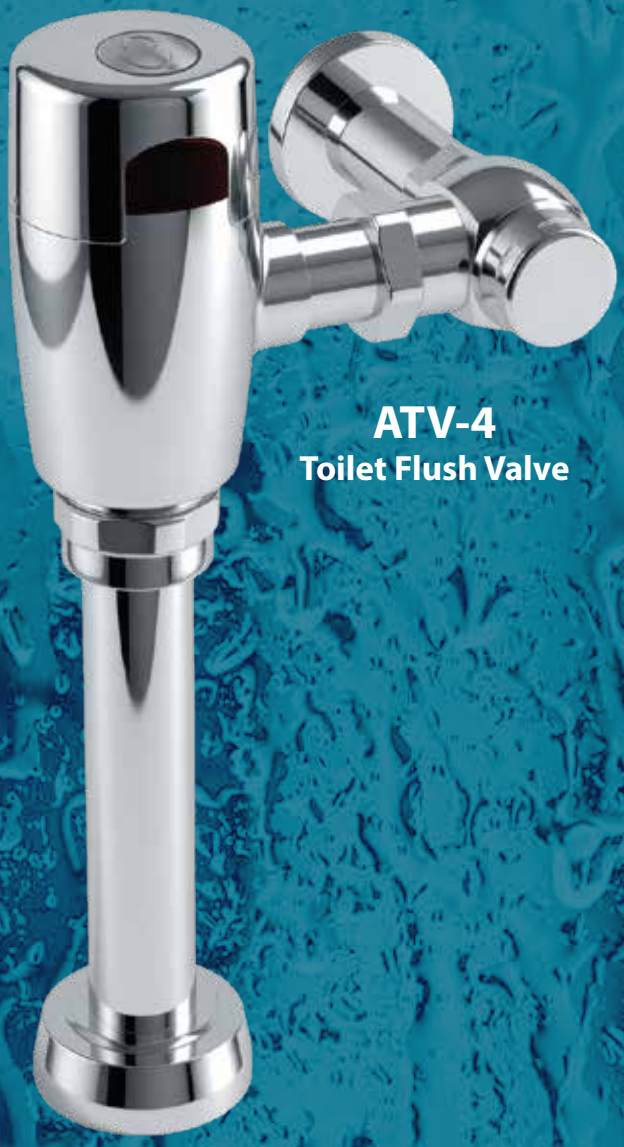
MAC FAUCETS

When Style Matters

EvrLast™ Flush Valve

BEST QUALITY 100% GUARANTEED

OWNER'S MANUAL MODEL ATV-4 AND AUV-4



ATV-4
Toilet Flush Valve



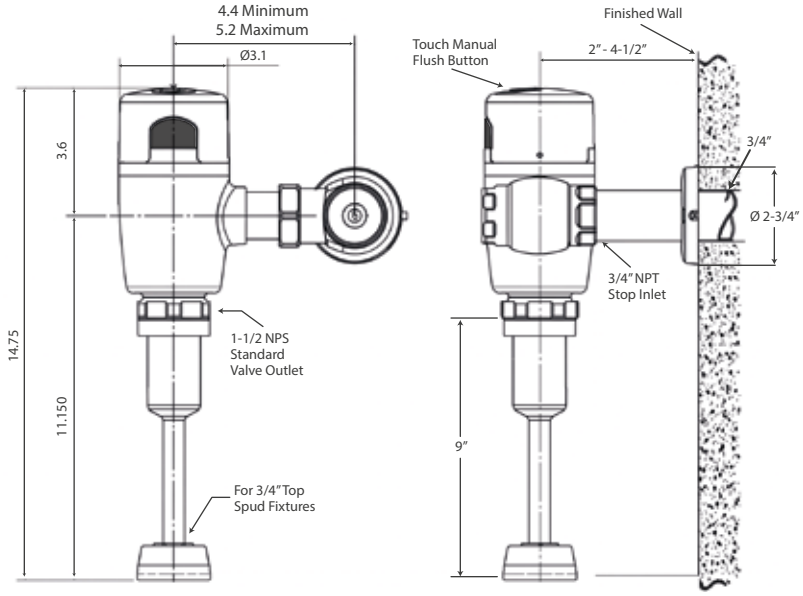
AUV-4
Urinal Flush Valve

MAC FAUCETS Products

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Fig. 1 Urinal Rough-In



GENERAL DESCRIPTION:

AUTOMATIC URINAL FLUSH VALVE

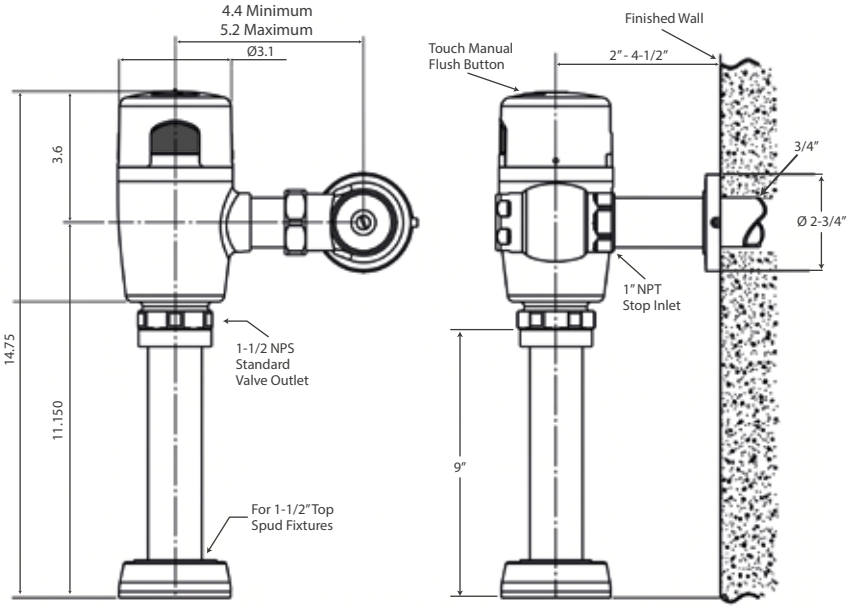
Exposed Flushometer for 3/4" Top Spud Fixtures

OPERATING PRESSURE:

Overall Range: 15-100 psi**
Recommended: 25 psi - 80 psi

**Water pressure over 80 psi is not recommended with most plumbing fixtures

Fig. 2 Toilet Rough-In



GENERAL DESCRIPTION:

AUTOMATIC TOILET FLUSH VALVE

Exposed Flushometer for 1-1/2" Top Spud Fixtures

OPERATING PRESSURE:

Overall Range: 15 -100 psi **
Recommended: 25 psi - 801 psi

**Water pressure over 80 psi is not recommended with most plumbing fixtures

Limited Warranty

MAC Faucets warrant this faucet to be free of defects for a period of one year from date of purchase. Mac Faucets will replace, free of charge, during this warranty period, parts that prove defective when properly installed and under normal use and service. Damage that occurs as a result of abuse, improper installation, environmental conditions, or improper application will void this warranty. Products must be shipped with postage and handling prepaid, along with dated proof of purchase. This warranty does not cover installation or any other labor charges. it does not cover shipping and handling of both replacement parts and returned defective parts. Products or components that have been altered or in any way modified will not be covered under this warranty. Replacement parts are under warranty only for the remaining period under the initial warranty. Some states do not allow for exclusion of incidental or consequential damage.

Right or Left Hand Installation



See (Fig 9) for Flush Valve Left or Right Hand Installation.

Tools Needed
NOT SUPPLIED



Crescent Wrench or Wide Open Pipe Wrench to tight hex nuts from 1-1/4" to 2"



Flat screw driver to open/close stop valve, and to adjust water flow
**Phillips screw driver 1/4" diameter to install and remove the cartridge

Allen Wrench Supplied

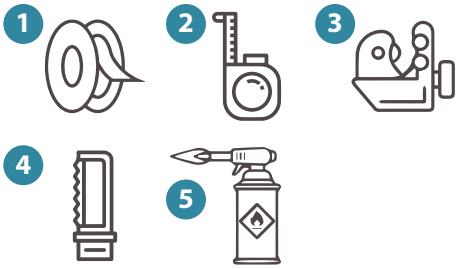


Allen Wrench for Wall Flange Set Screw



Allen Wrench for Flush Valve Cap Screws

1. Teflon Tape
2. Tape Measure
3. Tubing Cutter
4. Hacksaw
5. For Sweat Connection; Solder and Torch



MAC FAUCETS, LLC

DO NOT use toothed tools that can damage the decorative finish of the flush valve



Note

- Check your local code and regulations for all plumbing.
- Water Supply Lines must be the proper size to provide the volume of water required for each unit
- Flush the water lines through the stop valve at high volume prior to installing flush valve
- Dirt and debris can cause damage to flush valve
- Do not locate Sensor units across from each other or in close proximity to highly reflective surfaces

1 Install Sweat Solder Adapter Fig. 4

CAUTION Turn water supplies off before beginning

Note: Install Optional Sweat Solder Adapter (Supplied) for copper pipe supply line. Fig. 3.

1. Measure the distance (A) from the finished wall to the center of the inlet spud on the fixture.
2. Cut the supply pipe 1-1/4" (A-B=C) shorter then the measurement taken in Step 1. File any rough edges off the end of the supply pipe.
3. Clean the end of the supply pipe. Push the threaded Adapter on until it is seated against the internal stop. Sweat the Adapter to the pipe.

Fig. 4

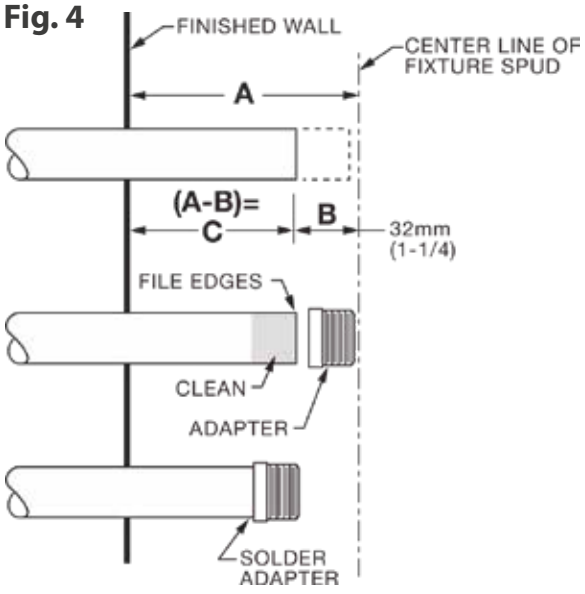


Fig.5a

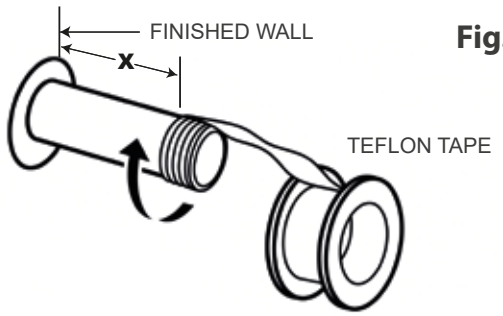


Fig. 5

Fig. 5b

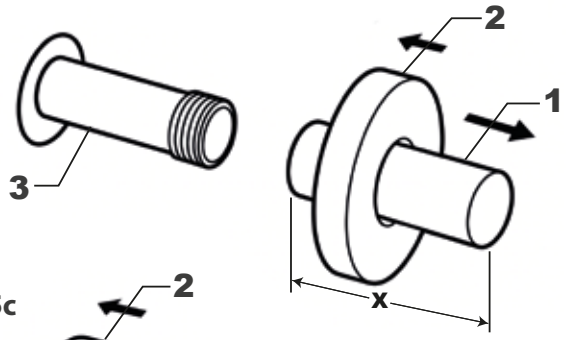
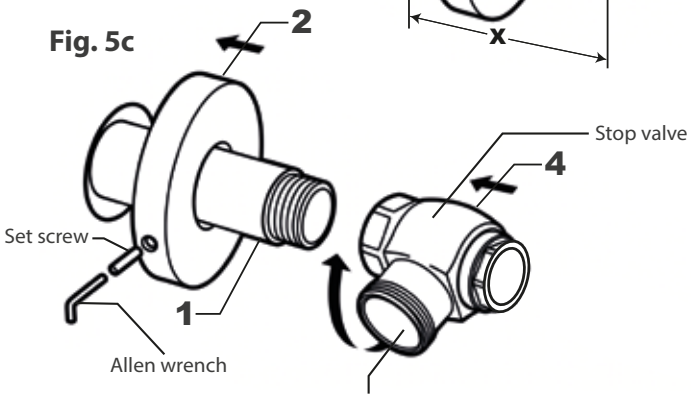


Fig. 5c



The outlet of the stop valve may be installed to the left, or to the right side depending on the placement of the toilet or the Urinal

4 Flush Out supply line Fig. 7

Remove the Stop valve cap, open the adjustment screw.

When all the stop valves are connected and water pressure is on, it is recommended that the supply pipes are flushed to remove dirt and debris from the water system

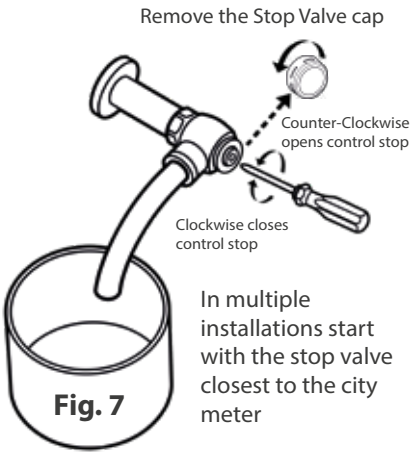


Fig. 7

Before the flush valve is installed, open each stop fully for 1 to 2 minutes.

Use a large bucket to catch the water

In multiple installations start with the stop valve closest to the city meter

2 Install Tube Sleeve, Wall Escutcheon and Supply Stop Fig. 5

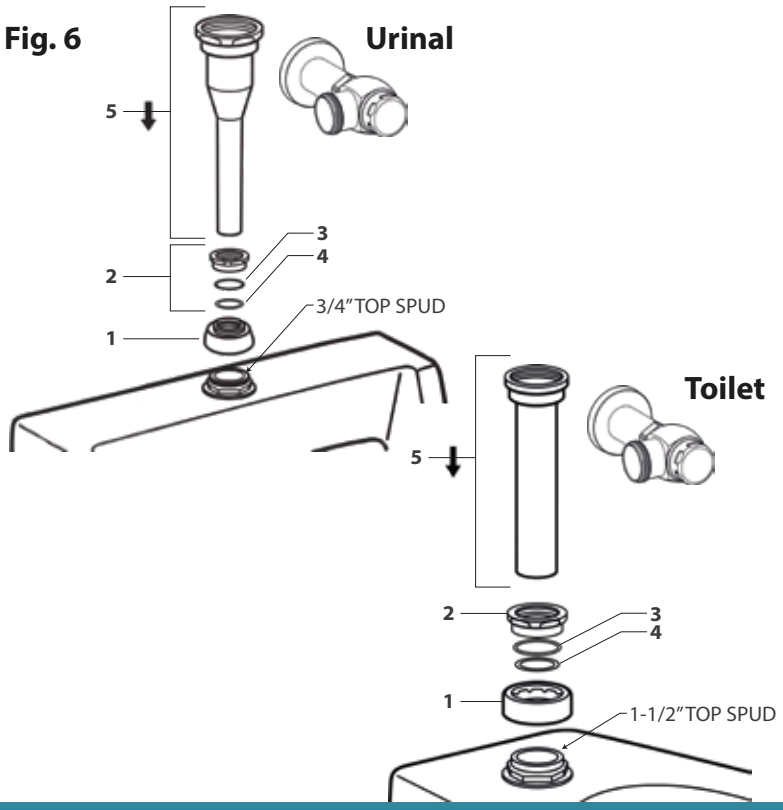
1. Measure from finished wall to first thread of Adapter or threaded supply pipe (dimension "X"). Cut Tube Sleeve (1) to length (X). Apply Teflon Tape to the threaded end of the Adapter of supply pipe. Fig. 5a.
2. Push the Tube Sleeve (1) into the WALL ESCUTCHEON (2). Slide both onto the SUPPLY PIPE (3). Fig. 5b.
3. Place the STOP VALVE (4) into the threads of the supply pipe (3). Fig. 5c. With a wrench thread the SUPPLY STOP (4) onto the SUPPLY PIPE (3). Align and tighten. Fig. 5c.
4. Pull COVER TUBE (1) against SUPPLY STOP (4) and slide the WALL ESCUTCHEON (2) against finished wall.

   Fasten set screw with the Allen Wrench provided.
5. Remove the Stop valve cap, close the adjusment screw

3 Install Down Tube and Vacuum Breaker Fig. 6

1. Place the SPUD FLANGE (1) over the spud on the Fixture.
2. Thread SPUD COUPLING NUT (2) onto Spud. Make sure SEAL WASHER (3) and FRICTION WASHER (4) are installed. Do not tighten fully.
3. Insert the DOWN TUBE (5) into the SPUD COUPLING NUT (2) and push it down.

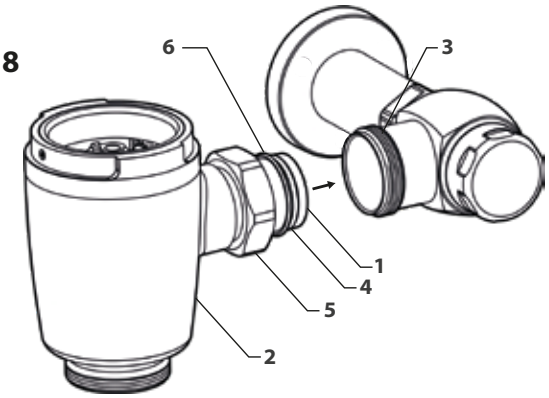
Fig. 6



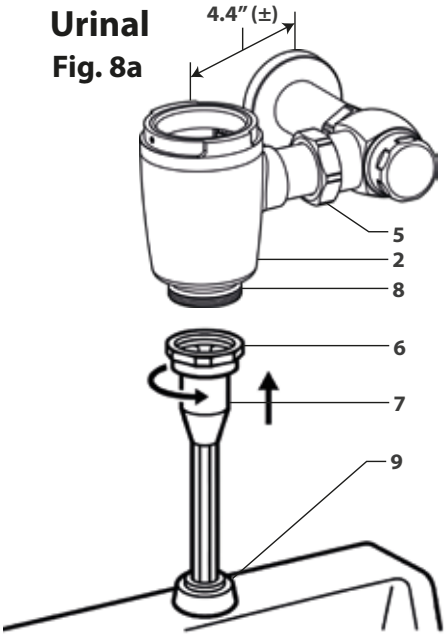
4 Install Flush Valve Fig. 8a & 8b

1. As shown in Fig. 8, Slide the TAILPIECE (1) of the FLUSH VALVE (2) into the SUPPLY STOP VALVE (3). Lubricate the TAILPIECE O-RING (4) with water if necessary. Lightly tighten COUPLING NUT (5). Fig. 8a or 8b.
   Important: Do not use lubricants (other than water) or any type of thread sealing paste or tape. Make sure that the locking snap ring and the O-ring are inserted correctly. Hand tighten the coupling nut, DO NOT CROSS THREADS.
2. Align the FLUSH VALVE (2) (Fig. 8a or 8b) directly above the DOWN TUBE (7) and VACUUM BREAKER COUPLING NUT (6).
   Note: There is a 1" tolerance for the (4.4") dimension.
3. Pull the DOWN TUBE (7) up to meet the threaded FLUSH VALVE CONNECTION (8) and hand tighten the VACUUM BREAKER COUPLING NUT (6). Align all components of the flush valve assembly. Fig. 8b.
4. Lightly tighten the COUPLING NUT (5) connection first, then the VACUUM BREAKER COUPLING NUT (6) and finally the SPUD COUPLING NUT (9). Once alligned correctly, use a wrench to tighten couplings to make water tight connections. Fig. 8b.

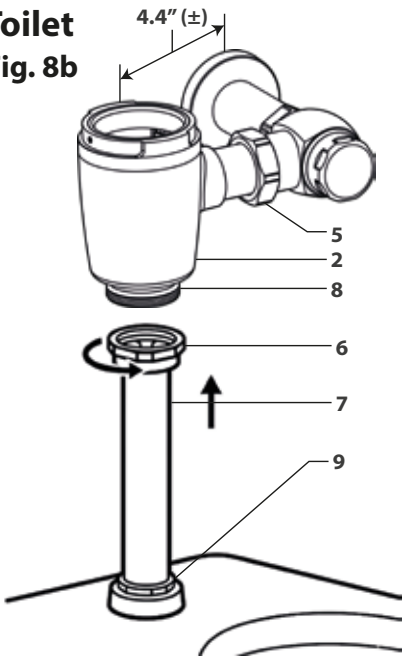
Fig. 8



Urinal
Fig. 8a



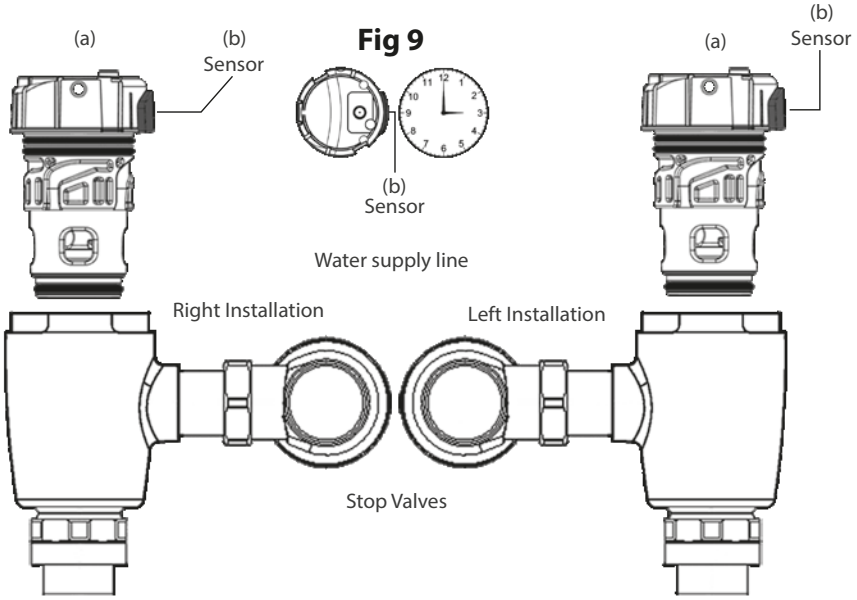
Toilet
Fig. 8b



5 Install the Cartridge Fig. 9

Cartridge must be pointing at 3:00 o'clock, whether the flush valve has the water supply line to the right or to the left. Cartridge (a) sensor (b), Fig. 9

Fig 9



1. Insert the cartridge with the sensor aligned to the 3 o'clock position (Fig. 9a).

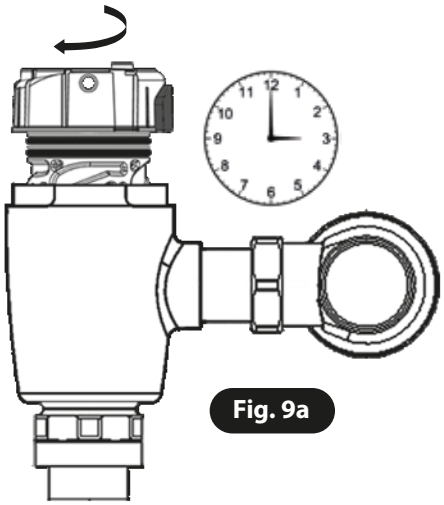


Fig. 9a

2. Rotate the cartridge clockwise manually until it drops deeper into the housing and the sensor aligns with the 4 o'clock position (Fig. 9b).

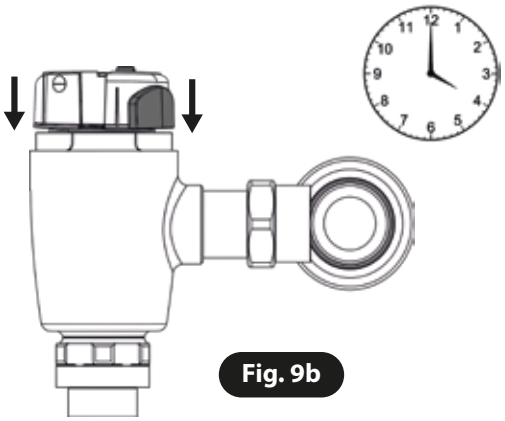


Fig. 9b

3. Insert a screwdriver into the hole on the cartridge cap. Apply firm downward pressure, and rotate the cartridge to engage the lock (Fig. 9c).

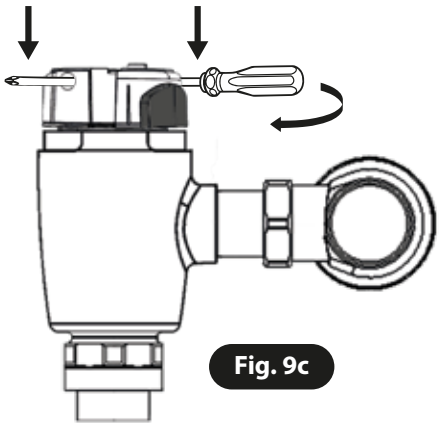


Fig. 9c

4. Verify final alignment: Once locked, the sensor must orient toward the front of the flush valve at the 6 o'clock position (Fig. 9d).

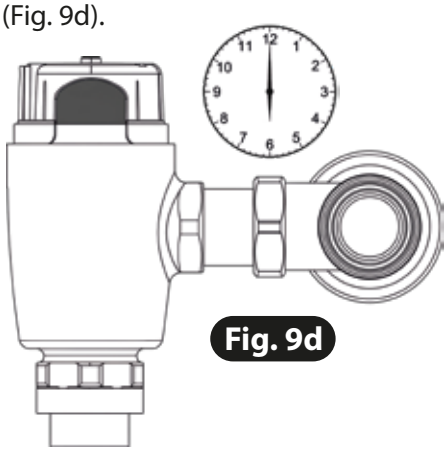


Fig. 9d

6 Installing the Cap Fig. 10

1. Position the flush valve cover over the cartridge until it seats completely on the valve body
2. Insert the provided Allen wrench (2) through the access holes in the cover and rotate the setscrews **counterclockwise** to secure the cover to the flush valve (Figure 10a). *Please note, the set screws are housed within the body.*
3. Remove the stop valve cover (3) (Figure 10b).
4. Initiate the sensor test: Stand directly in front of the flush valve and verify that the sensor flashes eight times. Step to the side (out of the sensor detection zone) and listen for an audible click from the valve. Wait 10 seconds following the click before opening the stop valve
5. Using a flat-head screwdriver, rotate the stop valve screw (4) counterclockwise to open the valve (Figure 10c), then perform an initial operational test.
6. Repeat the verification process outlined in step 4 to confirm the valve flushes automatically. Press the manual override icon on top of the flush valve cover to verify that the manual flush activates consistently during consecutive tests.
7. Reinstall the cap onto the stop valve cover (3) (Figure 10c).

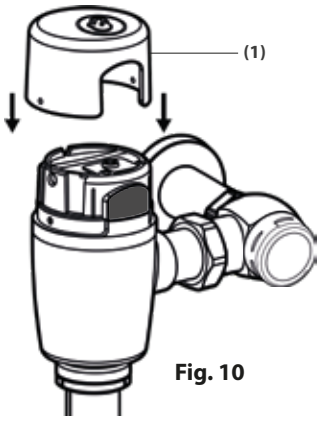


Fig. 10

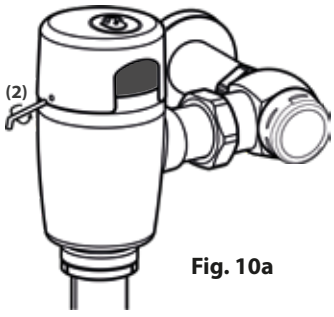


Fig. 10a

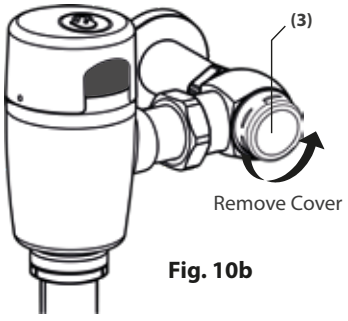
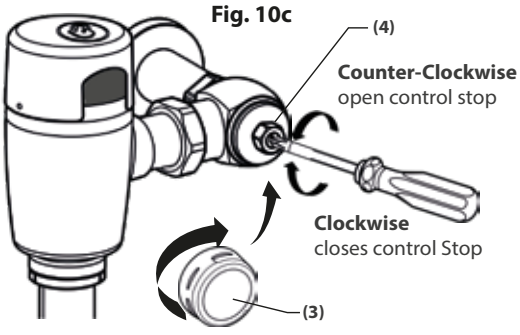


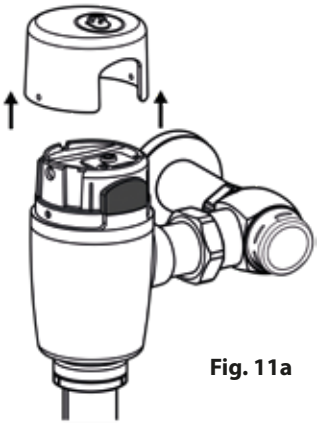
Fig. 10b



7 Replacing the Cartridge

1. Insert the provided Allen wrench through the holes in the flush valve cover. Turn the setscrews **clockwise** to loosen the cover (Fig. 11).
2. Remove the flush valve cover (Fig. 11a).
3. Slide a screwdriver (1) through the hole on top of the cartridge. (Fig. 11b).
4. Rotate the cartridge **counterclockwise** until it releases from the valve body, cartridge will stop turning at the 4 o'clock position (Fig. 11c).
5. Pull the cartridge completely out of the flush valve housing (Fig. 11d).


Fig. 11


Fig. 11a

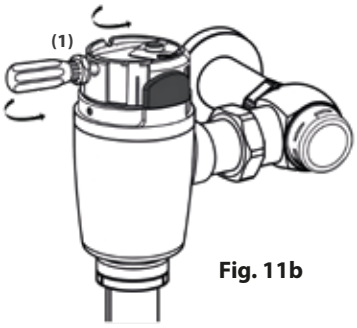


Fig. 11b

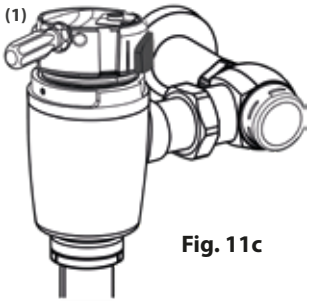
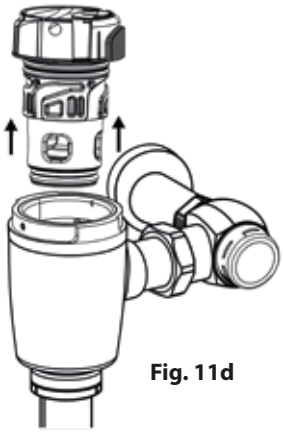


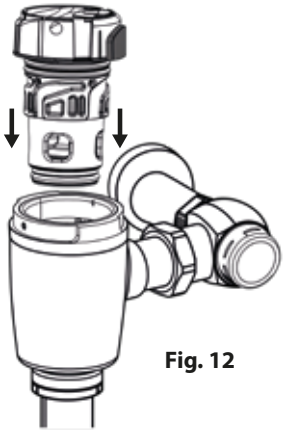
Fig. 11c

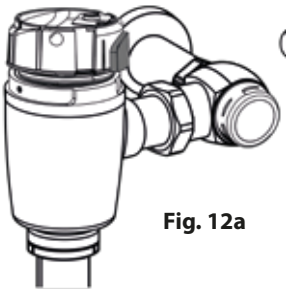

Fig. 11d

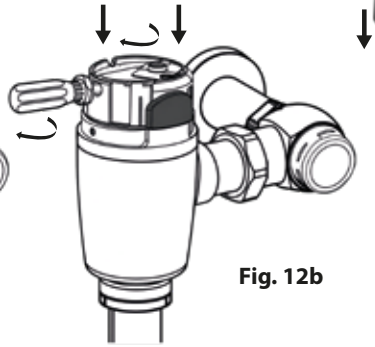
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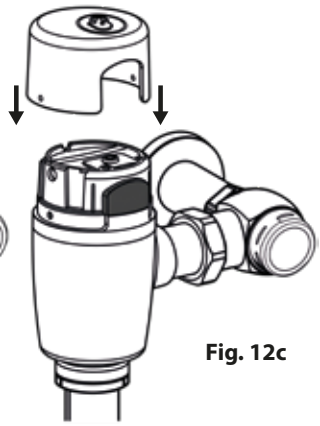
1. Insert the cartridge with the sensor aligned to the 3 o'clock position (Fig. 12).
2. Rotate the cartridge clockwise manually until it seats within the housing and the sensor aligns with the 4 o'clock position (Fig. 12a).
3. Insert a screwdriver into the hole on the cartridge cap apply firm downward pressure until the assembly seats completely on the valve, and rotate the cartridge to engage the lock the sensor in place.

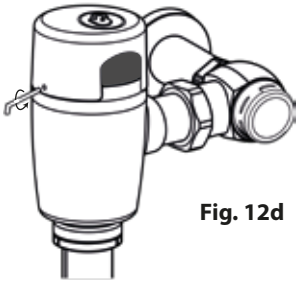
   Verify final alignment: Once locked, the sensor must orient toward the front of the flush valve at the 6 o'clock position (Fig. 12b).
4. Reinstall the cap onto the stop valve cover (Fig. 12c).
5. Position the flush valve cover over the cartridge until it seats completely on the valve body
6. Insert the provided Allen wrench through the access holes in the cover and rotate the setscrews **counterclockwise** to secure the cover to the flush valve (Fig. 12d).


Fig. 12


Fig. 12a


Fig. 12b


Fig. 12c


Fig. 12d



FA-3260
Matching
Electronic Faucet



MTV-1
Manual Toilet Valve



MUV-2
Manual Urinal Valve



A-13000
Lavatory drain Grid Type
with over flow Port
A-13100
Lavatory drain Grid Type
without over flow Port



JM-2503
Thermostatic Mixing Valve



TH-3
Toilet Paper Dispenser
Jumbo Roll



TH-4
Toilet Paper Dispenser
Jumbo Roll



Offset drain
A-13800 w/ Overflow
A-13900 w/o Overflow



FA-3203
Automatic Soap Dispenser
(with 3" riser for High Vessel sinks)



FA-3403
Automatic Soap Dispenser
(with 3" riser for High Vessel sinks)



TiO-32
Two-in-one Automatic
Faucet and Soap Dispenser



TiO-34
Two-in-one Automatic
Faucet and Soap Dispenser