

## BEFORE INSTALLATION

Review this brochure and the steps involved in installing the lockout bracket. Gather the required tools.

### Assembly Includes:



### Tools Required for Installation:

- 2 Adjustable Wrenches
- Hammer
- Center Punch
- Clamp or Vise (to secure valve handle for drilling)
- Electric Drill
- 17/64" or 9/32" Drill Bit

## SAFETY INFORMATION

*Filtration Systems* Filter Vessels are designed to filter liquids under pressure in accordance with the temperature and pressure restrictions stamped on the nameplate. Retain these instructions and any product related literature for review by all personnel operating or supervising the operation of this equipment.

**These instructions contain safety information that is important to know and understand. To help recognize this information, observe the following symbols.**

### ⚠ WARNING

Warning indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

### ⚠ CAUTION

Caution indicates a potentially hazardous situation which, if not avoided, could result in minor or moderate injury.

**Warranty:** *Filtration Systems* warrants its products to be free from defects in workmanship for a period of one year from the date of purchase, when used in accordance with our specific guidelines. Our only obligation and a customer's remedy, subject to our inspection and evaluation, shall be to repair or replace the product, or refund the purchase price.

**Limitation of Liability:** *Filtration Systems* shall not be held responsible or liable for any loss resulting from the resale, direct or indirect misuse of this product.

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## Filtration Systems

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# Installation and Operating Instructions

## for Ball Valve Safety Lockout Assembly

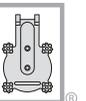
*Filtration Systems* Ball Valve Safety Lockout Assemblies are designed to restrict movement of the handle on the inlet and outlet Ball Valves. An essential upgrade for filter systems in an industrial setting where liquids are present. Designed for use with *Filtration Systems* valved filter housings.

Lockout assemblies are sold in sets of two, designed to secure the inlet and outlet valves. Please follow these Installation and Operating Instructions for quick and easy set up.



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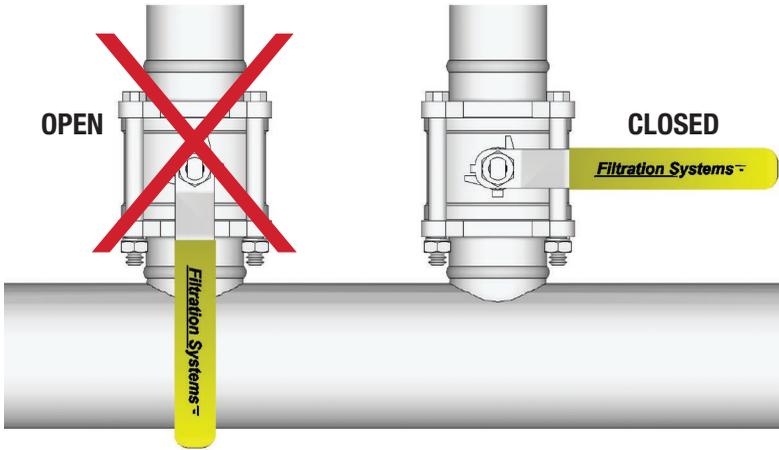


**WARNING**

Filter Vessel(s) must be taken off-line and drained before proceeding with installation of Lockout Assembly. Failure to do so may result in injury or property damage. See the Installation, Operating and Safety Manual for Liquid Filter Housings and Filter Media for details.

**STEP 1**

Filter Vessel(s) **MUST** be taken off-line and drained. Make sure all valve handles have been turned 90° to the closed position.

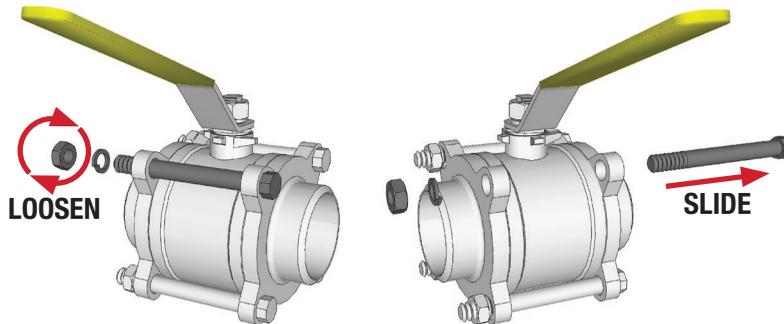


**STEP 2**

**CAUTION**

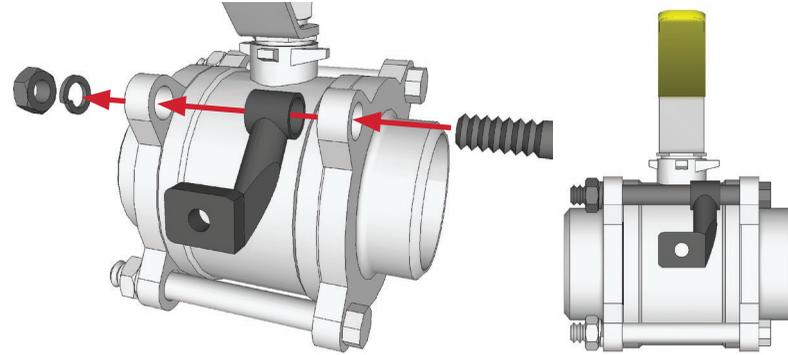
Do not loosen all 4 bolts. Do not remove valve from equipment. Only 1 bolt to be loosened during this process. Failure to comply may cause injury, seal issues, leakage or property damage.

Loosen **ONLY** the nut on the bolt located adjacent to the base of the **CLOSED** valve handle. Slide the bolt out and have ready for Step 3.



**STEP 3**

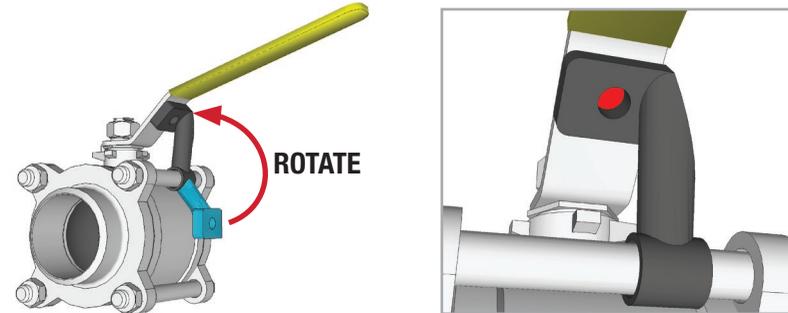
Place lockout bracket in-line with the bolt holes as shown in the directions. Slide bolt through bolt holes and bracket. Tighten nut and bolt firmly.



**STEP 4**

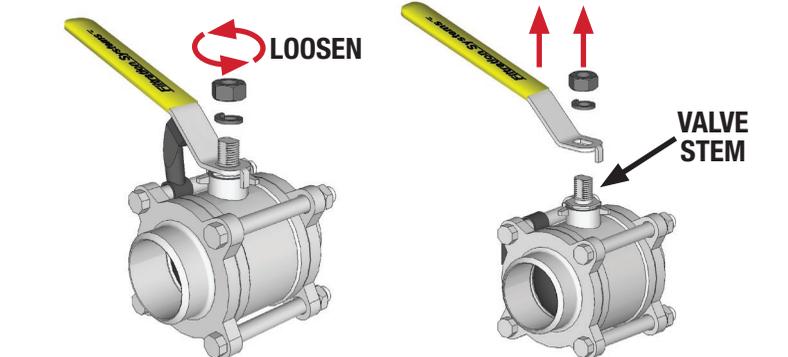
Rotate the lockout bracket to the locked position with the valve handle. Mark the center of the hole to be drilled.

**NOTE:** Lockout Bracket should rotate freely on bolt.



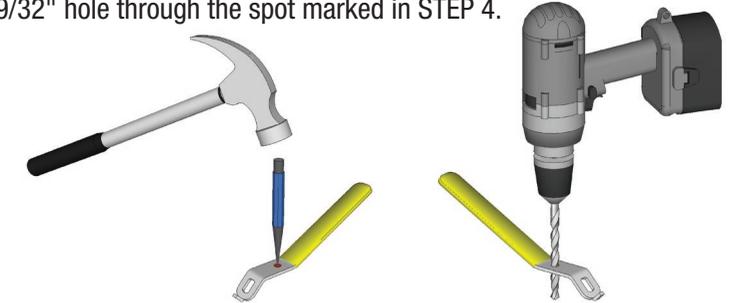
**STEP 5**

Loosen the nut and lock washer on the valve stem. Remove the valve handle carefully to avoid damage to the valve stem threads.



**STEP 6**

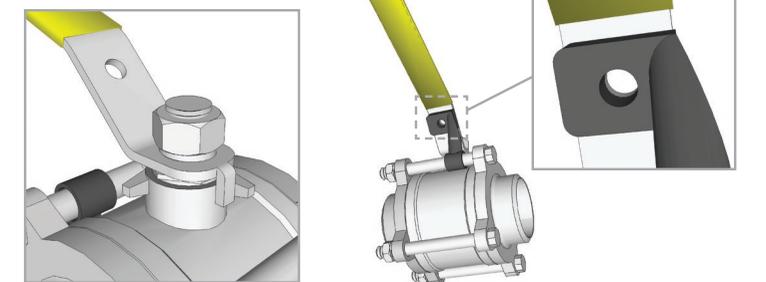
Turn the valve handle upside down and secure it with a clamp or vise. **NOTE:** Be sure to punch the center mark or the hole will be off center. With the valve handle secured and center punched, drill a 17/64" or 9/32" hole through the spot marked in STEP 4.



**STEP 7**

Reinstall valve handle and firmly tighten the nut and lock washer on the stem.

Rotate lockout bracket to the locked position and make sure holes are in line with each other.



**STEP 8**

Attach the padlock to the lockout bracket and valve handle to lock the valve.

In the unlocked position, the lockout bracket and padlock hang securely as to not interfere with the Valve Handle.

Padlock key can only be removed in the locked position.

**NOTE:** Do not leave key in the lock.

