



Description of Product and Use

The RED HEAD™ is a water purging device which allows you to completely remove the water from a point of entry tank via the drain line by introducing compressed air into the tank. The device is threaded between the control valve &/or manifold, and the tank. The RED HEAD™ incorporates patented features that regulate pressure applied to the tank and eliminate over pressurization. The RED HEAD™ will remove water via the drain line to an elevation of approximately 35'. The tank, as well as the tank contents (media), will be left dry. The RED HEAD™ also acts as a winterization device, as it is the only way to fully separate water from the media in the tank. The RED HEAD™ device also assists in servicing compacted media beds. The complete removal of water from the tank and media allows for a more forceful and dynamic backwash. Tanks completely empty of water present much less resistance to backwash water entering the tank, thus, providing greater lift and expansion to the bed. This process can be completed by simply following the service instructions and repeating the process as many times as needed.

The RED HEAD™ device can be installed on new and existing systems. A RISER TUBE EXTENSION part, sold separately, provides the extra length needed when installing the RED HEAD™ on an existing system.

The following optional equipment is available for use specifically with The RED HEAD™:

- RISER TUBE EXTENSION – Provides quick extension for riser tube length when installing the RED HEAD™ on an existing system with an existing riser.
- RISER TUBE EXTENSION 268 INSERT (AUTOTROL) or ANY long threaded neck valve – Provides quick extension for riser tube length when installing the RED HEAD™ on an existing system with an existing riser.
- RISER LOK™ - Prevents riser tube from rising out of position whenever the valve requires removal. **NOTE:** Must be installed before RISER TUBE EXTENSION

Quick Use Instructions (ONCE DEVICE IS INSTALLED)

1. Put system into bypass.
2. Using the control valve, bring the system into rapid rinse mode and leave in this position.
Pressurized water will escape thru the drain line.

3. Unscrew the schrader valve cap from the side of the RED HEAD™.
4. Add compressed air using small compressor or bicycle pump.
Water will begin to flow to drain.

Note: you may hear and/or feel air coming out of small pressure relief valve next to the schrader. This is normal and is regulating air pressure inside of the tank.

5. For compacted media beds:
 - i. Put control valve in backwash position.
 - ii. Open bypass all the way.
 - iii. Media bed will be flooded with water racing to fill the tank (this is for compacted bed only.)

Caution: Watch for media being lifted out of tank.

- iv. Repeat above steps several times as needed to break up bed.

CAUTION

DO NOT RESTRICT OR IMPEDE FUNCTION OF RELIEF VALVE. YOU MAY CREATE A DANGEROUS OVERPRESSURIZATION WHICH COULD RESULT IN SERIOUS INJURY OR DEATH

DO NOT exceed 25 lbs of torque when installing this product. Exceeding this limit may damage the threads and cause failure.

Please follow the steps below for attachment of part:

- 1. Spin the part onto the tank, ensuring the threads are not cross-threaded.**
NOTE: All SIA parts are right-hand threads, or clockwise, to install
- 2. Rotate the part freely without using force until it comes to a stop, which is considered zero.**
- 3. Rotate the part clockwise from zero to between ¼ to ½ turn.**

READ ALL DIRECTIONS CAREFULLY BEFORE INSTALLATION

- ✓ ALL UNITS ARE INDIVIDUALLY DOUBLE TESTED FOR BOTH PRESSURE AND OPERATIONAL FUNCTION.
- ✓ **NOTE:** ON RARE OCCASIONS, THE ABOVE OPERATIONS MAY RESULT IN BOTH/EITHER A SLIGHT O RING MARK AND/OR MINUTE AMOUNTS OF RESIDUAL WATER
- ✓ SIA RECOMMENDS SERVICE INSTALLERS SHOULD OBSERVE DISINFECTION PROCEDURES FOR ALL WATER TREATMENT COMPONENTS INSTALLED

INSTALLATION AND USE

NEW TANK INSTALLATION

ONLY for use with 2.5"-8 thread compatible tank

IT IS RECOMMENDED THAT ALL COMPONENTS ARE DRY FITTED/CHECKED BEFORE GLUING

1. Remove RED HEAD™ from packing box.
2. Place a small amount of potable use silicone lube on o-ring (Dow 111).
3. Install riser tube into tank. Do not cut riser. Must have 4" (allows for the 1.25" for Autotrol valves) minimum length above top of tank (if not, see Existing Tank Installation in this instruction manual.)
4. Place and install RED HEAD™ threading clockwise on to tank threads. Do not over tighten. You will be removing the RED HEAD™ to cut the riser tube to fit.
5. Mark the riser tube with a pencil level with the top of the RED HEAD™.
6. **THE RED HEAD™ IS NOW CONSIDERED THE TOP OF TANK. FOLLOW VALVE MANUFACTURERS SPECIFICATIONS FOR ADDITIONAL RISER TUBE LENGTH REQUIREMENTS IF NEEDED.**
7. Remove the RED HEAD™ from tank and remove riser. Cut as needed and slightly bevel outside of tube for an easier fit into control valve body.
8. Install riser tube back into tank.
9. Add media and gravel as needed.
10. Reinstall the RED HEAD™. Do not over tighten (25 lbs torque max).
11. Install control valve on to the RED HEAD™ by threading clockwise, and following manufacturer's specs.

NEW TANK INSTALLATION

With OPTIONAL RISER LOK™

NOTE: If using RISER LOK™, it must be installed before RISER TUBE EXTENSION
IT IS RECOMMENDED THAT ALL COMPONENTS ARE DRY FITTED/CHECKED BEFORE GLUING

1. Repeat Steps 1-5 as shown in “NEW TANK INSTALLATION”, then begin steps below.
2. Remove RISER LOK™ from package.
3. Measure down 2 5/16” from the existing pencil mark on the riser tube and mark with pencil.
4. Place small amount of glue (OATEY all purpose cement for cpvc, pvc, abs) around the entire riser tube just below the new pencil mark, about ½” wide.
5. Place riser locking plate on riser tube lip side of plate down and slide down the riser locking plate until the new pencil mark is just above the top of the riser locking plate. Turn ¼ turn for glue to make good contact. NOTE: New mark must be seen at the top of the riser locking plate. Wipe away excess glue.
6. Install RISER LOK™ and place center hole on top of riser tube. Disk will drop down and lay flat on lip of riser locking plate. Make sure disk is on lip of plate.
7. Resume steps 5-10 above for “NEW TANK INSTALLATION”.

EXISTING TANK INSTALLATION

ONLY for use with 2.5”-8 thread compatible tank
(Package includes Riser Tube Extension & Riser Tube Coupling)

NOTE: If using RISER LOK™, it must be installed before RISER TUBE EXTENSION
IT IS RECOMMENDED THAT ALL COMPONENTS ARE DRY FITTED/CHECKED BEFORE GLUING

1. Remove the RED HEAD™ from packing box
2. Place a small amount of potable use only silicone lube on o-ring (Dow 111).
3. Remove existing control valve from tank.
4. Cut existing riser tube even with the top of the tank, taking care not to cut into head of tank flange.
CAUTION: This can cause the tank to be permanently damaged and can leak because of improper o-ring seal.
5. Clean end of cut riser and clear all small burs.
6. Using cleaner/primer (OATEY clear) prepare end of riser for riser tube extension attachment.
7. Remove Tube Extension and Coupling from plastic bag. Using OATEY all purpose cement (for cpvc, pvc, abs), glue only one side of the riser tube coupling to the existing riser tube end. Wipe off excess glue.
8. Install the RED HEAD™. Do not over tighten. You will be removing the RED HEAD™.
9. Place Riser Tube Extension into the unglued side of the Riser Tube Coupling. DO NOT GLUE AT THIS TIME. Make sure Riser Tube Extension is completely inserted in Coupling. There is a stop ring in Coupling for placement guidance.
10. Mark Riser Tube Extension per valve manufacturer’s specifications. The top of the RED HEAD™ is now referenced as “the top of the tank”.
11. Remove and cut Riser Tube Extension to desired length, with clean, square cuts if possible. Slightly bevel outside of both ends.

12. Remove the RED HEAD™.
13. Glue the cut (to length) Riser Tube Extension into Coupling. Wipe off excess glue (must be seated completely into socket).
14. Reinstall RED HEAD™. Do not over tighten (max 25 lbs torque or ¼ to ½ turn from zero.)
15. Install existing control valve into the female thread side of the RED HEAD™ following valve manufacturer's specification.

EXISTING TANK INSTALLATION

With OPTIONAL RISER LOK™

NOTE: If using RISER LOK™, it must be installed before RISER TUBE EXTENSION
IT IS RECOMMENDED THAT ALL COMPONENTS ARE DRY FITTED/CHECKED BEFORE GLUING

1. Follow steps 1-5 as shown in "EXISTING TANK INSTALLATION", then begin steps below.
2. Remove RISER LOK™ and riser locking plate from bag.
3. Measure down from top of existing riser tube ½" and add a pencil mark.
4. Place small amount of glue (OATEY all purpose cement for cpvc, pvc, abs) around the entire riser tube just below the new pencil mark., about ½" wide.
5. Slide down the riser locking plate (lip side down) until the new pencil mark is seen just above the top of the riser locking plate. Turn ¼ turn for glue to make good contact. NOTE: New mark must be seen at the top of the riser locking plate. Wipe away excess glue.
6. Remove Tube Extension and Coupling from plastic bag. Using OATEY all purpose cement (for cpvc, pvc, abs), glue only one side of the riser tube coupling to the existing riser tube end. Wipe off excess glue.
7. Install the RED HEAD™. Do not over tighten. You will be removing the RED HEAD™.
8. Place Riser Tube Extension into the unglued side of the Riser Tube Coupling. DO NOT GLUE AT THIS TIME. Make sure Riser Tube Extension is completely inserted in Coupling. There is a stop ring in Coupling for placement guidance.
9. Mark Riser Tube Extension per valve manufacturer's specifications. The top of the RED HEAD™ is now referenced to as "the top of the tank".
10. Remove and cut Riser Tube Extension to desired length, with clean, square cuts if possible. Slightly bevel outside of both ends.
11. Remove the RED HEAD™.
12. Glue the cut (to length) Riser Tube Extension into Coupling. Wipe off excess glue (must be seated completely into socket).
13. Install RISER LOK™ and place center hole on top of riser tube. Disk will drop down and lay flat on lip of riser locking plate. Make sure disk is on lip of plate.
14. Reinstall RED HEAD™. Do not over tighten (max 25 lbs torque or ¼ to ½ turn from zero.)
Install existing control valve into the female thread side of the RED HEAD™ following valve manufacturer's specifications.