

BERKEY SHOWER FILTER™ OWNER'S INSTRUCTIONS

Berkey Shower Filter™

The **Berkey Shower Filter™** unit not only removes most of the chlorine present but it also saves water and energy as well.

It is just as logical to remove the chlorine from our showers as it is to remove it from our drinking water. Many authorities warn that our bodies can absorb more Chlorine by taking one shower than from drinking the same chlorinated water all day long.

Chlorine and You

Chlorine is universally used to chemically purify water. Municipal water suppliers use chlorine and its derivatives to effectively destroy micro-organisms in drinking water.

Chlorine is also familiar as a bleaching agent. Almost every home uses household bleach in its laundry. To be an effective bleach, it is necessary that a substance must also be able to attack organic matter. Chlorine does this very well. Our skin, hair, lungs, and eyes are also organic - and chlorine attacks these as well. Chlorine bonds with the protein in our bodies which can cause dry sensitive skin, flaking, itching as well as dry and unmanageable hair.

More About Chlorine

Chlorine exists in two forms - combined available chlorine and free available chlorine. Combined available chlorine is present as chloramine or other derivatives in water. Free available chlorine is the residual chlorine present as dissolved gas, hypochlorous acid, or hypochlorite not combined with ammonia. It is free available chlorine that presents the most danger to the humans, and it is this form of chlorine that **Berkey Shower Filter™** units reduce. NOTE: Simple OTO type chlorine test kits cannot be relied upon to show the presence of combined chlorine. When testing for free available chlorine, an inexpensive test is the DPD type method.

INSTALLATION

1. Tools and material required:
 - A. Slip joint pliers or adjustable wrench (to remove existing showerhead).
 - B. Teflon® joint sealing tape.
2. Remove the existing shower head from the shower arm. (See Fig A)
3. If your showerhead has an integral ball joint it should be either replaced with a standard ½" threaded shower arm or an adapter can be used (see Fig B). Ball adapters can be purchased from most hardware or building supply dealers. The following table may be of help:

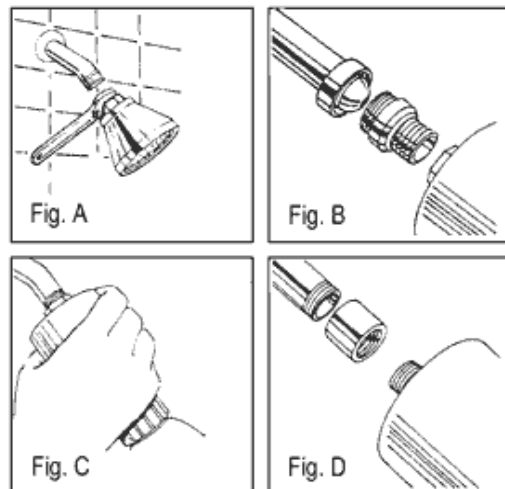
Plumb Shop Adapter	Shower Brand
PS-2592	American Standard
PS-2593	Price Pfister
PS-2596	Gerber

4. Wrap about 4 turns of Teflon® joint sealing tape around the shower arm threads (or adapter threads, if adapter is used).
5. Attach adapter, if adapter is required, with slip joint pliers.
6. Attach the **Berkey Shower Filter™** unit by hand tightening it to shower arm or adapter (see Fig C). Be careful to avoid cross threading when starting the threads. Do not over tighten. It is only necessary to tighten enough to prevent leaks.
7. IF THE SHOWERHEAD IS REPLACED, OR WHEN INSTALLING A **BERKEY SHOWER FILTER™** UNIT WITH YOUR OWN SHOWER HEAD IT IS IMPERATIVE THAT A FLOW RESTRICTING HEAD BE USED. This is not only mandatory in most cities but is necessary to insure proper filter action of the **Berkey Shower Filter™** unit — SHOWER HEAD FLOW SHOULD NOT EXCEED 2.5 GPM AT 60 PSI.
8. The **Berkey Shower Filter™** unit can be used with a hand held shower unit by removing the existing shower head and attaching the **Berkey Shower Filter™** unit to the shower arm using Teflon® joint sealing tape. Attach the flexible hose to the outlet of the **Berkey Shower Filter™** unit as per the manufacturer's instructions for the hand held unit.

Care of your Berkey Shower Filter™ unit and "Back Flushing"

The ability of the **Berkey Shower Filter™** unit to continue to remove the chlorine will depend on the quality of the water sources; the amount of chlorine and hardness, and the amount the **Berkey Shower Filter™** unit is used. Over a period of time, a reduction of water flow may be experienced. Should this occur, the **Berkey Shower Filter™** unit may be "back flushed" as follows:

1. Remove the **Berkey Shower Filter™** unit from the shower arm.
2. Remove the shower head from the **Berkey Shower Filter™** unit.
3. Turn the **Berkey Shower Filter™** unit around and attach the back flushing coupling (supplied) to the outlet of the **Berkey Shower Filter™** unit (see Fig. D).
4. Attach the coupling to the shower arm.
5. Turn on the shower and flush the **Berkey Shower Filter™** unit with warm water for several minutes at full flow.
6. Remove the unit and reassemble using Teflon® joint sealing tape.



Filtration Technology

The **Berkey Shower Filter™** unit uses a patented filter media to more effectively remove chlorine. It is many times more effective than carbon used in most water filters. Unlike carbon, it is more efficient in hot water. It also reduces fungus, algae and hydrogen sulfide and its bacteriostatic characteristics inhibits the growth of new bacteria in the **Berkey Shower Filter™** unit.

How Long Will Your Berkey Shower Filter™ Unit Last?

The length of time that the **Berkey Shower Filter™** unit will reduce the chlorine level in your shower water will depend on the level of chlorine present, pH, amount of water used, the hardness of the water and the care of the unit. If the unit is back flushed as required it should last a year or more under average water conditions. The improved **Berkey Shower Filter™** unit will typically last 20,000 gallons or one year, whichever comes first. While testing was performed under standard laboratory conditions, actual performance may vary.

Using a Flow Restricting Water Head

The **Berkey Shower Filter™** showerhead incorporates a patented feature that regulates the water flow rate 2.5 gallons per minute (GPM) from water pressure as low as 15 pounds per square inch (psi) to pressures as high as 100 (psi). This feature not only results in substantial energy and water savings, but it also is an important part of the **Berkey Shower Filter™** unit design. The flow restricting feature of the **Berkey Shower Filter™** unit insures the proper "contact time" of the water within the filter. **DO NOT USE SHOWER HEADS WITH FLOW RATES GREATER THAN 2.5 GPM AT 60 PSI. TO DO SO WILL REDUCE THE EFFECTIVENESS OF THE BERKEY SHOWER FILTER™ UNIT.**

NOTICE OF LIMITATIONS:

- Do not use in high iron content water systems that use chemicals such as polyphosphates.
- The **Berkey Shower Filter™** unit is designed for potable water systems only.
- Do not allow to freeze, or use with water over 110° F (43° C) temperature.
- The **Berkey Shower Filter™** unit is not to be used for drinking purposes.
- Maximum water pressure should not exceed 100 psi.
- The **Berkey Shower Filter™** unit is BPA free.

NOTE: If possible do not use the **Berkey Shower Filter™** unit with a shut-off valve. If a shut-off valve is absolutely necessary, please make sure it is installed inline above and before the **Berkey Shower Filter™** unit. Use of a shut-off valve after the **Berkey Shower Filter™** unit may result in excessive pressure buildup inside the **Berkey Shower Filter™** unit causing the filter to be damaged and voiding your warranty. For more information on the proper installation of a shut-off valve, please contact your **Berkey®** products distributor.

WARNING: NEITHER NMCL OR ANY OF ITS DISTRIBUTORS ASSUMES ANY LIABILITY SHOULD YOU DECIDE TO USE A SHUT-OFF VALVE IN CONUNCTION WITH YOUR **BERLEY SHOWER FILTER™** UNIT.