



Installation, Operation and Maintenance Manual

ScaleStop 7 to 12 inch tank Systems
Chemical Free, Salt Free Scale Prevention



NSS-744
NSS-835
NSS-844
NSS-948
NSS-1054
NSS-1252

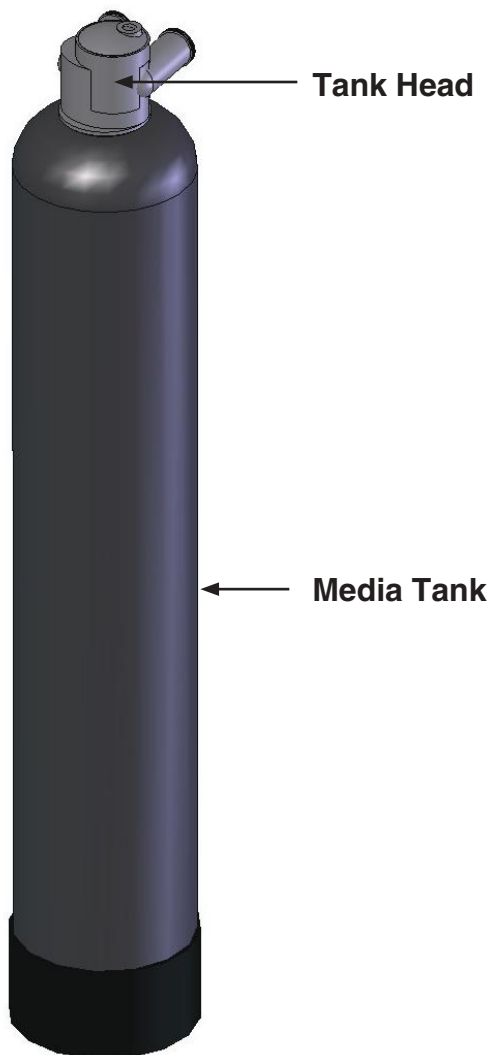
Scale Stop UK
Aylsham Business Park
Norfolk, NR11 6FD
www.scalestop.co.uk
info@scalestop.co.uk
07917 713285



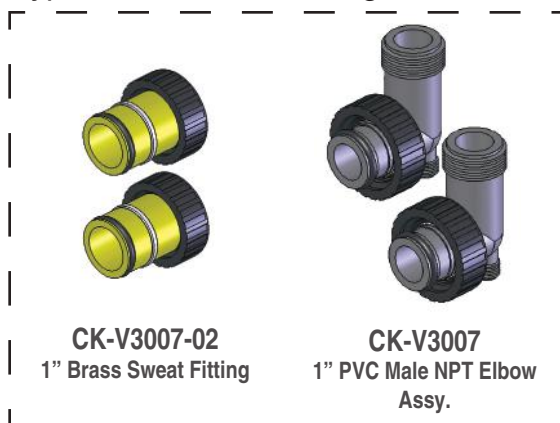
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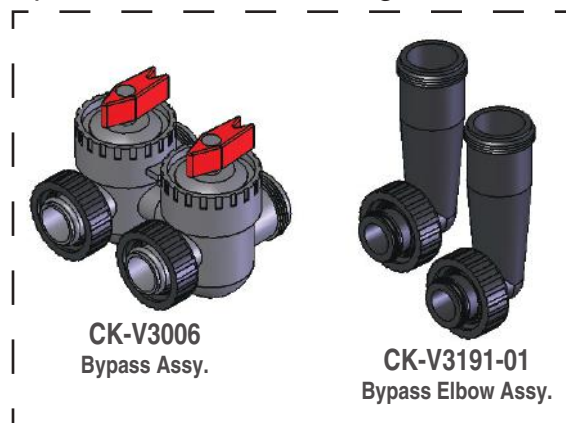
System Overview



Typical Connection Fittings

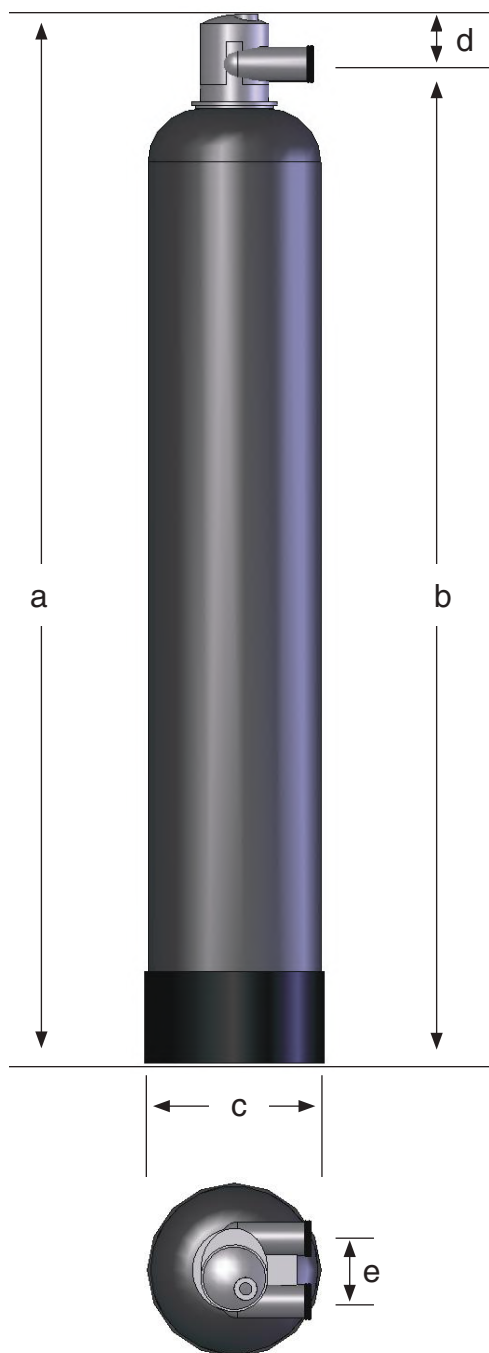


Optional Connection Fittings



Equipment Specifications

Systems are complete, self-contained, loaded with media and ready to use. A simple inlet and outlet connection is all that is required for installation. Please review operating pressures, temperatures and water chemistry limitations to ensure compatibility.



Specifications

Inlet/Outlet Connection	3/4" - 1.25" (multiple options)
Temperature	4° - 44°C
pH	6.5 to 8.5
Ferrous Iron, Max*	0.3 mg/L
Manganese, Max*	0.05 mg/L
Copper, Max*	1.3 mg/L
Water Pressure	15 min., 100 max (PSI)

* See note about Iron, Manganese and Copper on the next page.

Mechanical Specs.

	744/835	844	948	1054	1252
Max Service Flow (lpm)	40	46	60	76	114
Dry Weight (kg)	10	12	14	16	20
Service Weight (kg)	37	44	59	77	107

Dimensions (nominal - inches)

a	48.5	48.5	52.5	59.5	56.5
b	46	46	48	57	54
c	7	8	9	10	12
d	2.5	2.5	2.5	2.5	2.5
e	3.0	3.0	3.0	3.0	3.0

Using ScaleStop with other water treatment equipment.

Due to the unique properties of ScaleStop, there are some unique requirements for using ScaleStop in conjunction with filtration or other forms of water treatment.

1. ScaleStop must be the last stage in the treatment chain. Do not install any filters after ScaleStop or before any devices for which scale prevention is required. POU filters, e.g. carbon or RO are exempt from this requirement.
2. Do not apply phosphate or any other antiscalant either before or after ScaleStop.



An important note about iron, manganese and copper in the water supply.

Iron and manganese

Just as with conventional water softening media, ScaleStop needs to be protected from excess levels of certain metals that can easily coat the active surface, reducing its effectiveness over time. Public water supplies rarely, if ever, present a problem, but if the water supply is from a private well confirm that the levels of iron (Fe) and manganese (Mn) are less than 0.3 mg/L and 0.05 mg/L respectively. Copper should be less than 1.3 mg/L.

Copper

Just as with conventional water softening media, ScaleStop needs to be protected from excess levels of certain metals that can easily coat the active surface, reducing its effectiveness over time. Public water supplies rarely, if ever, present a problem, but if the water supply is from a private well confirm that the levels of iron (Fe) and manganese (Mn) are less than 0.3 mg/L and 0.05 mg/L respectively. Copper should be less than 1.3 mg/L.

If Copper or Lead levels in the supply water are high, Copper Guard should be added to the tank.



Cautions!

- Do not let the system freeze. Damage to the tank may result.
- System must be operated in a vertical position. Do not lay it down during operation. The system may be placed in any position for shipping and installation but must be operated in the vertical position.
- Place tank systems on a smooth, level surface. Because the system operates in an UP-Flow, fluidized bed mode, having a level surface is more important than with a softener or media filter.
- A bypass valve should be installed on every system to facilitate installation and service.
- Observe all local plumbing and building codes when installing the system.



Notes to the Installer.

The ScaleStop system differs from a conventional softener or media filter in a number of key respects.

- The system is light and only partially filled with media. This is normal. The UP-flow operation of the system requires a lot of freeboard to allow the bed to fully fluidize.
- The system has no underbed so you can tip the system over without any fear of upsetting the media. This makes transportation and installation much easier than conventional systems.
- Because the ScaleStop system operates in the UP-Flow mode, the tank connections are opposite of what you're used to.
- Please see the "important note about iron, manganese and copper" above.
- Please see the note about "Using ScaleStop with other water treatment equipment" on the previous page.

Installation

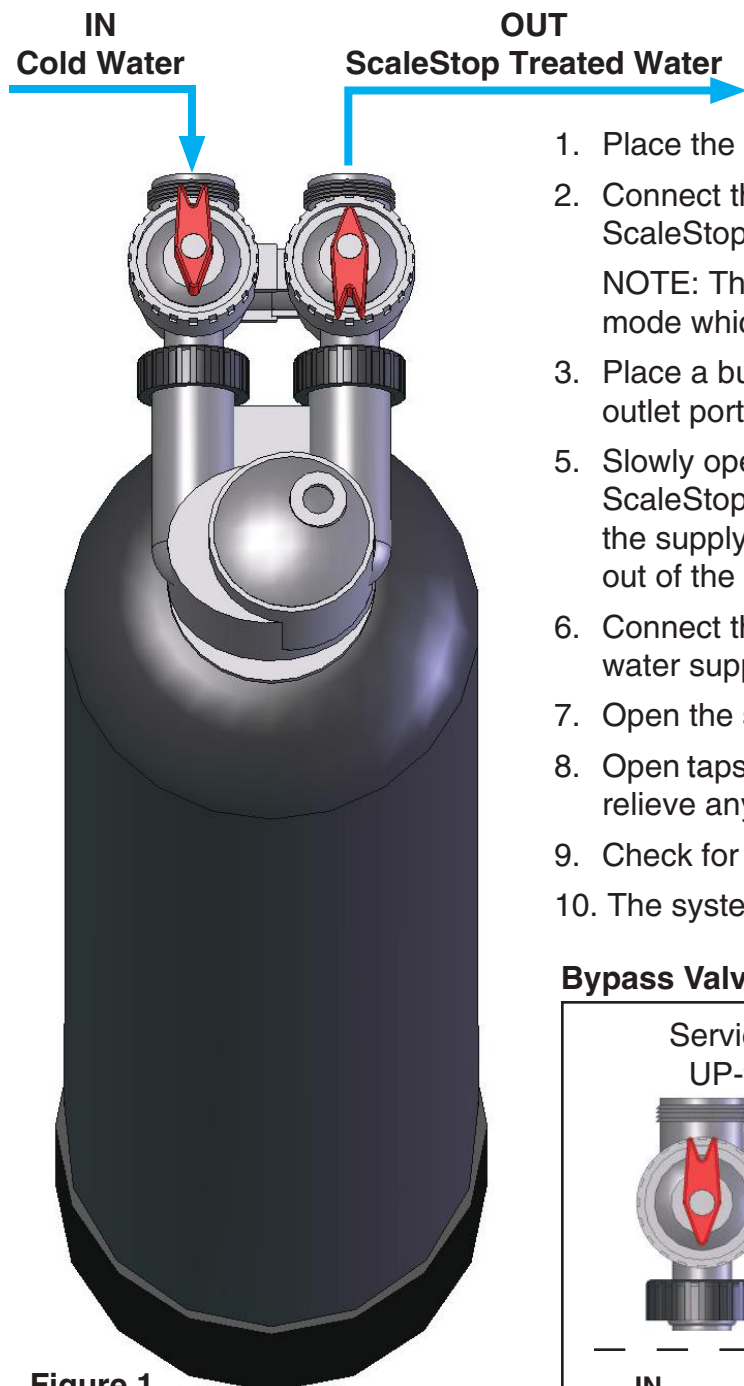


Figure 1.
844 shown with optional
bypass assy..

1. Place the system in the desired location.
2. Connect the Cold Water supply to the inlet of the ScaleStop system.

NOTE: The ScaleStop system operates in the UPFLOW mode which is opposite of a conventional softener.
3. Place a bucket under the outlet port or run a line from the outlet port to a drain.
5. Slowly open the supply valve (user supplied) to the ScaleStop system. Allow the tank to fill with water. Close the supply valve when a steady stream of water comes out of the outlet port.
6. Connect the Outlet of the ScaleStop system to the cold water supply to the home.
7. Open the supply valve to the ScaleStop system.
8. Open taps downstream from the ScaleStop system to relieve any air.
9. Check for leaks. Repair as needed.
10. The system is now ready for service

Bypass Valve Positions

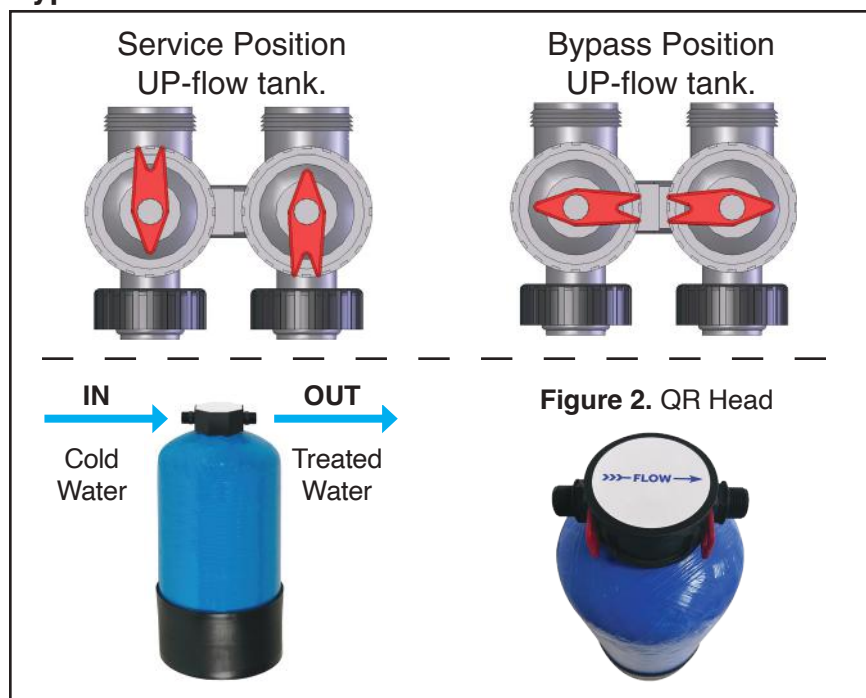


Figure 2. QR Head



LIMITED WARRANTY

- The Tank is warranted to be free of defects in materials and workmanship for 10 years from the date of original installation.
- The Head is warranted to be free of defects in materials and workmanship for 5 years from date of original installation
- The ScaleStop media is warranted for performance for a period of 3 years from the date of the original installation.

Conditions

1. The ScaleStop system must be installed and serviced by an authorised ScaleStop UK dealer, or other entity approved by ScaleStop UK.
2. Any component failure must not result from abuse, fire, freezing or other acts of nature, violence, or improper installation.
3. Equipment must be installed and operated in compliance with the local plumbing codes, and on an approved water supply.
4. Equipment is limited to use at water pressures not to exceed 100 PSI and temperatures not to exceed 44 degrees C.
5. Water supply must not exceed 3.0-PPM chlorine. For water supply exceeding 3.0 PPM chlorine, pretreatment is required. (Please contact us on 07917 713285 for advice.)
6. Information, including model number, serial number, and date of installation, must be provided for any claims pertaining to equipment in warranty.
7. Defective parts are subject to inspection by either ScaleStop UK, or any authorised representative before final commitment of warranty adjustment is made.
8. ScaleStop UK reserves the right to make changes or substitutions in parts or equipment with material of equal quality or value and of then current production.

Limitations

Our obligation under this warranty with respect to the tank or valve is limited to furnishing a replacement for, or at our option, repairing any part or parts to our satisfaction that prove defective within the warranty period stated above. Such replacement parts will be delivered to the owner F.O.B. nearest factory, at no cost, excluding freight and local labour charges, if any.

Our obligation under this warranty with respect to the Scale Stop media will be limited to furnishing a replacement for the media within 3 years from date of original installation. Such replacement media will be delivered to the owner F.O.B. nearest factory, at no cost, excluding freight and local labor charges, if any. Damage to the media due to chlorine, other oxidizers or fouling or any other operation outside of the limits shown under Specifications, is not covered by this warranty.

ScaleStop UK shall not be liable for freight, handling or labour charges, or consequential damages.



Using ScaleStop with other water treatment equipment.

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2. Do not apply phosphate or any other antiscalant either before or after ScaleStop.

Warranty Registration

We appreciate your purchase of the chemical-free ScaleStop, scale control system. Under proper conditions you will have years of trouble-free performance from this product.

It is important to register the warranty for your new ScaleStop UK system, so that we have all the information we need to help you quickly in the unlikely event that you experience a problem.

Please register your warranty within 30 days of installation

Your warranty terms and conditions are in the installation manual supplied with your product.

Your warranty is a free period of cover and does not affect your statutory rights in any way.

Remember, your product only has a free period of cover if it is registered.

You can read our warranty terms and conditions [here](#).

ScaleStop UK
Aylsham Business Park
Aylsham
Norfolk
NR11 6FD

07917 713285
info@scalestop.co.uk