Filter Selection



Proper filter selection is essential for maintaining water flow, extending cartridge life, and minimizing filtration costs. **Always select the cartridge first and the housing second.** An undersized filter can restrict flow, clog prematurely, and require frequent replacement.

THE FIVE REQUIRED STEPS

1. Test the water

Before selecting a filtration system, test the water to identify specific quality concerns, confirm microbiological safety for drinking and cooking, and determine the type and size of particulate present. Water testing helps establish the appropriate cartridge type and micron rating.

2. Determine the Required Cartridge Type

Water Quality Concern	Recommended Cartridge
Sediment, sand, rust and suspended particles	Spun Polypropylene (SP), Pleated Polyester (PPE) or String Wound (SWP, SWBC)
Taste and odour, including chlorine	Carbon Block (CB), Granular Activated Carbon (GAC) or Carbon Wrap (CW)
Specific contaminants, including cysts or certain VOC's	Cartridge specifically rated and certified for the intended contaminant (CB, GAC, CW)

Sediment cartridges remove particulate, while activated carbon cartridges reduce certain dissolved contaminants, taste and odour. Performance depends on cartridge design and the contaminant being targeted. Always verify the manufacturer's ratings and certifications.

3. Determine the Required Flow Rate

Calculate the peak water demand in gallons per minute (GPM), considering fixtures and appliances that may operate simultaneously. Daily water consumption alone does not determine the required filter flow rate.

Fixture or Appliance	Typical Flow
Dishwasher	2-3 GPM
Washing Machine	4-5 GPM
Bathtub	3-8 GPM
Shower	2-5 GPM
Faucet	2-3 GPM
Toilet	2.5-5 GPM

4. Select the Cartridge Size / Micron Rating

Choose a cartridge with a rated flow capacity above the required peak demand. Clean cartridge flow ratings may decrease as sediment accumulates.

Recommended sizing guidelines:
•Light sediment load: at least 1.5x the required flow
•General applications: approximately 2x the required flow
•Heavy sediment load: up to 3x the required flow where appropriate

Larger cartridges generally provide greater dirt holding capacity and may extend service life.

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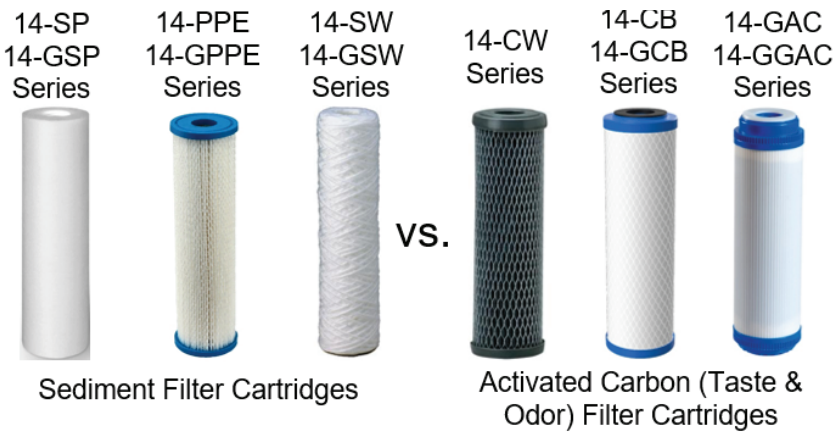
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Available cartridge sizes:
Standard: 2-1/2" & 2-3/4" outside diameter
Giant: 4-1/2" outside diameter
Nominal Lengths: 5", 10" & 20"

Always verify cartridge dimensions, end configuration, and rated capacity. Replace cartridges according to manufacturer recommendations and actual operating conditions.

A 5-micron filter is sufficient for standard whole-house sediment removal and general appliance protection, while a 1-micron filter is best if you need to catch very fine silt or use it as a pre-filter for a drinking water or UV system.



5. Select the Filter Housing

Once the cartridge has been selected, choose a housing that accommodates it's dimensions and meets the system's flow, pressure, temperature, and material requirements.

Housing options include:
•Slim
•Standard
•Giant
•Stainless Steel
•High Temperature models

Material options include:
•Polypropylene
•Polypropylene / Styrene- Acrylonitrile
•Polypropylene / Styrene- Acrylonitrile with Stainless Steel Thread Inserts
•Stainless Steel
•Glass Reinforced Nylon (High Temp)

Bowl Options:
•Clear (5-year lifespan) must not be used in direct sunlight
•Blue (10-year lifespan) suitable for use where there is UV exposure
•Red (High Temp) suitable for use where there is UV exposure
•Stainless Steel (High Temp, High Pressure) suitable for use where there is UV exposure



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Consider the following when selecting a housing:
•**Material and Temperature:** Select materials compatible with the water chemistry and operating temperature. High temperature or high pressure applications may require specialized housings
•**Bowl Selection:** Clear bowls allow visual inspection but must be protected from direct sunlight where specified. Blue, red and stainless steel options have different UV, temperature and pressure capabilities. Confirm the individual model ranges
•**High Flow Demand:** A larger housing or multiple housings installed in parallel may be necessary
•**Flow velocity:** Match connection sizes to the required flow and acceptable pressure loss. As a general design guideline, limiting water velocity to approximately 5 ft/second is ideal, while 8 ft/second would be the maximum. This corresponds to:

Housing Connection Sizes (FPT)	GPM Range / Flow Velocity (fps) Chart	
	Ideal (5 fps)	Limited to Max (8 fps)
3/4”	7 GPM	11 GPM
1”	12 GPM	19.5 GPM
1-1/2”	27.5 GPM	44 GPM

It is recommended to maintain a flow velocity of 5 to 8 fps approximately 1.5 to 2.44 m/s to prevent excessive pressure drop, erosion/ corrosion, excessive noise/ vibration, cavitation and damage piping and system components due to water hammer. A flow rate of 9 to 10 ft/s to 2.743 to 3.048 m/s could potentially have the above mentioned issues.

SELECT THE RIGHT FILTRATION APPLICATION

Application	Typical Configuration
Point-of-Entry (POE) - Whole House	Sediment filtration at the water supply entry to protect plumbing, fixtures and treatment equipment. Add a carbon stage when whole house taste and odour treatment is required.
Point-of-Use (POU) - Drinking Water	Typically a 10” standard or slim line housing is installed at a drinking water faucet. Smaller 5” systems may be suitable for RV’s, boats, and other space limited applications.
Reverse Osmosis (RO) Pre-Filtration	Sediment and, where specified, carbon cartridges to protect the RO membrane. Follow the RO manufacturer’s micron and compatibility requirements.
Ultraviolet (UV) Pre- Filtration	Sediment filtration to the UV manufacturer’s specified rating, commonly 5 microns or finer, to reduce particles that can shield microorganisms from UV light.

Boshart supplies filtration components for pre and post filtration applications, but does not offer the complete RO or UV treatment systems

NOTE: Cellulose is a natural organic material. Under favourable conditions, it may support microbial growth and biofilm formation, including nuisance bacteria commonly found in untreated water and well water supplies, such as iron and sulfur related bacteria.

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FILTER CARTRIDGES

Boshart offers a variety of water filter cartridges designed to address common water quality concerns, including sediment, taste, and odour. Selecting the proper cartridge depends on the water condition, required flow rate, cartridge size, and filtration application.

WARNING: Always Test Water - Never use sediment/ taste and odour cartridges with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the filtration system. These cartridges will not remove harmful contaminants/ bacteria. An NSF 53 certified water filter has been independently tested and certified by NSF International (or another accredited organization like the Water Quality Association) to reduce specific health-related contaminants rather than just aesthetic traits like taste or odour.

CARTRIDGE TYPES

Sediment Filtration - Designed to remove particulate such as sand, silt, dirt, scale, and rust.

These include:
•spun polypropylene (14-(G)SP)
•pleated polyester (14-(G)PPE)
•string wound polypropylene (14-(G)SWP)
•string wound bleached cotton (14-(G)SWBC) (not for potable water)
•string wound natural cotton (14-SWNC) (not for potable water)

Taste & Odour Filtration - Used to reduce undesirable taste and odour and, in certain applications, nuisance compounds.

These include:
•carbon block (14-(G)CB)
•carbon briquette (14-(G)CCR) Cryptosporidium and Giardia cyst reduction (not certified to NSF 53)
•granular activated carbon (14-(G)GAC)
•carbon wrap (14-(G)CW)
•in-line ice maker cartridges (14-IM)



NSF/ANSI/CAN Standard 42 - Drinking Water Treatment Units (Aesthetic Effects) - Covers point-of-use and point-of-entry (POU / POE) systems designed to reduce specific aesthetic, or non-health effects contaminants (chlorine, TDS, particulates) that may be found in drinking water that is considered to be microbiologically safe.
Change Out - Replacement filter cartridges have a limited service life. Changes in taste, colour and flow of the water (other liquid) being filtered are signals that replacement of the cartridge may be necessary.

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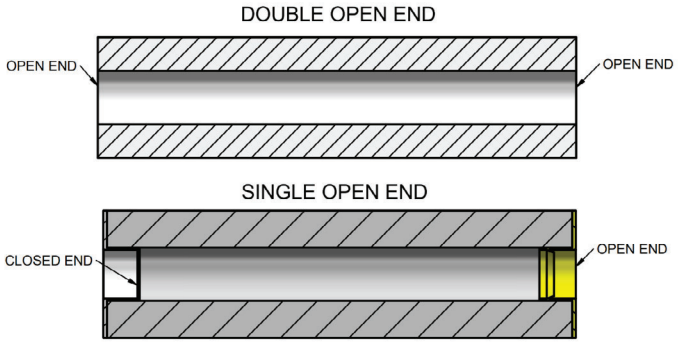
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STANDARD CARTRIDGE SIZES

Standard cartridges feature a Double Open End (DOE) configuration and fit most North American filter housings.

Compatible brands and systems include:
•Ametek / US Filter (The historical precursor to Pentek)
•American Plumber
•Culligan
•Whirlpool
•GE (General Electric)
•3M / Aqua-Pure
•Watts
•Hydronix
•Aqua Flo / Canature
•Axeon
•Omnipure
•NuvoH2O (For their standard 2.5” diameter systems)
•Home Master
•iSpring
•Express Water
•Apec Water Systems
•Geekpure



Not compatible with Rainfresh filter housings. Rainfresh standard housings require special Single Open End (SOE) filter cartridges.

Cartridge Diameters: 2-1/2” & 2-3/4”

5” Nominal Length — compact applications and limited-space installations
10” Nominal Length — standard cartridge length
20” Nominal Length — double-length cartridge for increased capacity

GIANT CARTRIDGE SIZES

Giant cartridges feature a double open end (DOE) configuration and are compatible with most North American filter housings including Rainfresh. Rainfresh giant housings use standard double open end (DOE).

Compatible brands and systems include:
•Culligan: Fits all heavy-duty models like the HD-950A or WH-HD200-C
•iSpring: Fits their entire lineup of high-flow whole-house systems (e.g., the WGB21B or WGB32B series)
•Home Master: Fits their high-capacity whole-house systems
•Aqua-Pure / 3M: Fits heavy-duty models like the AP801, AP801-C, or AP802
•American Plumber: Fits all heavy-duty lines like the W10-PR or W20-PR.
•Hydronix: Fits their HX-HF45 series of 10” and 20” wide-body sumps
•Watts: Fits their “Big Bubba” and heavy-duty generic commercial housings
•Geekpure & Express Water: Fits their heavy-duty multi-stage whole-house filtration arrays
•Apec Water Systems: Fits their 10” and 20” giant main-line filter housings
•Omnifilter: Fits their heavy-duty BF series housings (like the BF7 or BF35)
•Flomatic & neoPure: Universal commercial-grade giant filter sumps

Cartridge Diameter: 4-1/2”

10” Nominal Length — standard cartridge length
20” Nominal Length — double-length cartridge for increased capacity

Larger diameter/ longer cartridges provide greater flow capacity and filtration capacity. When selecting a cartridge, choose a flow capacity significantly higher than the system’s required flow rate. As a general rule, select a cartridge rated for approximately 2× the desired flow, with 1.5× potentially suitable for light sediment loads and up to 3× recommended for heavy sediment loads.

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14FHK-S SERIES STANDARD FILTER HOUSING KIT

CAUTION: Protect filter housings from freezing, direct sunlight, and excessive pressure spikes or surges, or exposure to chemicals, especially in under sink installations.



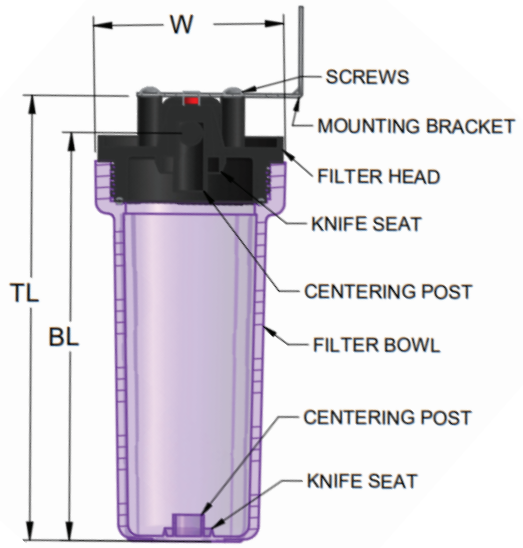
APPLICATIONS:
- Water Well / Municipal Water Supplies (10” & 20”)
- Whole House Point-of-Entry (POE) Residential / Commercial for Sediment Removal (10” & 20”)
- Recreational vehicles (trailers, RV’s) where space is limited (5” or 10”)
- Point-of-Use (POU) At Water Faucet/ Under sink for Taste & Odour Removal (5” & 10”)
- Agriculture - Livestock Watering, Drip Irrigation, Greenhouses, Misting & Fogger Nozzles Water Well Systems (10” & 20”)

FEATURES:
- Filter head comes with air release button on inlet side
- Available with clear or opaque (blue) filter bowl
- Mounting bosses molded in head for installation with mounting bracket
- Housing kit comes complete with filter housing, 1 O-ring installed plus 1 replacement O-ring, mounting bracket & hardware, and filter bowl wrench
- Accepts industry standard filter cartridges (Nominal 2-1/2" to 2-3/4" Diameter x 10" or 20” Long (not included)

SPECIFICATIONS:
- Threads conform to ANSI/ASME B1.20.1 Pipe Threads, General Purpose (Inch)

RATINGS:
- Max Pressure Rating: 125 PSI*

* If working pressure is consistently over 60 PSI, a pressure regulator valve is recommended to extend the lifespan of the bowl.
- Temperature Rating: 40-125°F (4-52°C)



MATERIAL LIST	
Part No.	**Description**
Filter Head	Black Polypropylene
Filter Bowl	C = Clear Styrene-Acrylonitrile (SAN)
	B = Blue Polypropylene
Air Release Button	Stainless Steel, Nitrile Buna Rubber (NBR) & Acrylonitrile Butadiene Styrene (ABS)
O-Ring	Nitrile Buna Rubber (NBR)
Wrench	Acrylonitrile Butadiene Styrene (ABS)
Mounting Bracket	White Powder Coated Steel
Screws	Stainless Steel

DIMENSIONS & SPECIFICATIONS

Part No.	Inlet/ Outlet	Bowl Size	Bowl Colour	Flow Rate Initial PSI @ GPM	W		TL		BL		Weight	
					in	mm	in	mm	in	mm	lbs	grams
14FHK-SB-0503	3/8"	5"	Blue	1 PSI @ 10 GPM*	5.14	130.60	6.85	174.10	6.24	158.50	2.35	1067
14FHK-SB-1007	3/4" FPT	10"	Blue		5.14	130.60	11.81	300.00	10.87	276.00	3.86	1750
14FHK-SC-1007		10"	Clear		5.14	130.60	11.81	300.00	10.87	276.00	4.05	1835
14FHK-SB-2007		20"	Clear		5.14	130.60	21.69	550.80	20.74	526.80	4.96	2250
14FHK-SC-2007		20"	Clear		5.14	130.60	21.69	550.80	20.74	526.80	5.24	2375
14FHK-SC-1007SS**		10"	Clear		5.14	130.60	11.81	300.00	10.87	276.00	4.05	1835

* Actual flow rates and pressure drop will be determined based on cartridge selections and fluid viscosity.
**Filter head comes with 303 stainless steel thread inserts.

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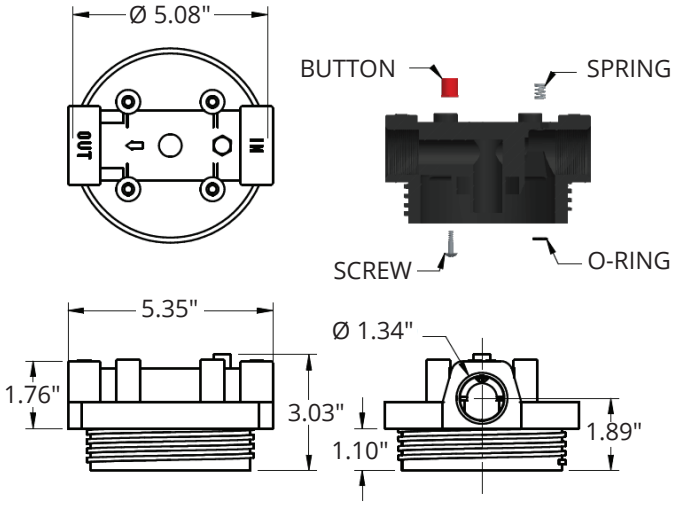
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REPLACEMENT PARTS

FILTER HEAD

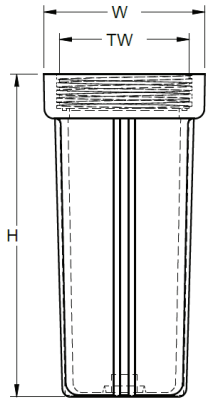
Part No.	Size
14FHPT-SH-03	3/8" MPT
14FHPT-SH-07	3/4" MPT

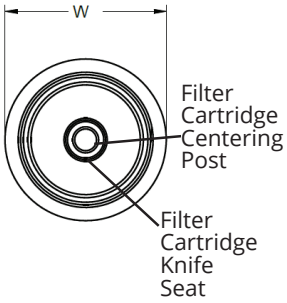




FILTER BOWL

DIMENSIONS						
Part No.	H		W		TW	
	in	mm	in	mm	in	mm
14FHPT-SB-05B	5.51	139.95	4.55	115.57	3.64	92.46
14FHPT-SB-10C	10.45	265.43	5.25	133.35	4.20	106.68
14FHPT-SB-10B						
14FHPT-SB-20C	20.60	20.60	5.25	133.35	4.20	106.68
14SHPT-SB-20B						

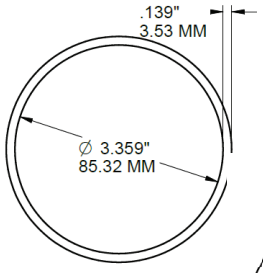






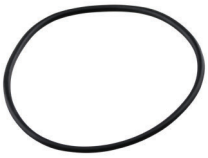
O-RING KIT

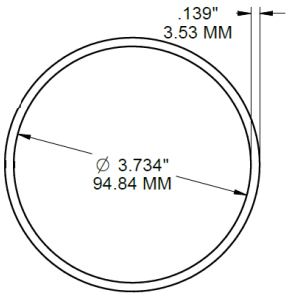
Part No.	Fits Housing Size	O-Ring Standard Size	Replacement O-Ring I.D. x C.S.	
			in	mm
14FHPT-SLOR-5	5" Bowls	AS568-237	3.359 x 0.139	85.32 x 3.53
14FHPT-SOR	10" & 20" Bowls	AS568-240	3.734 x 0.139	94.84 x 3.53



14-FHPT-SLOR-5







14-FHPT-SOR

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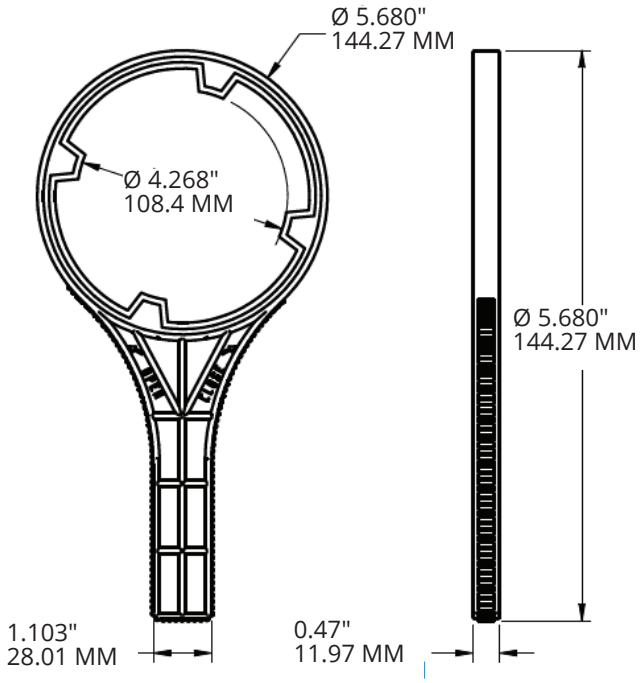
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FILTER WRENCH

Part No.	Fits Housing Size
14FHPT-SFW	All standard housings



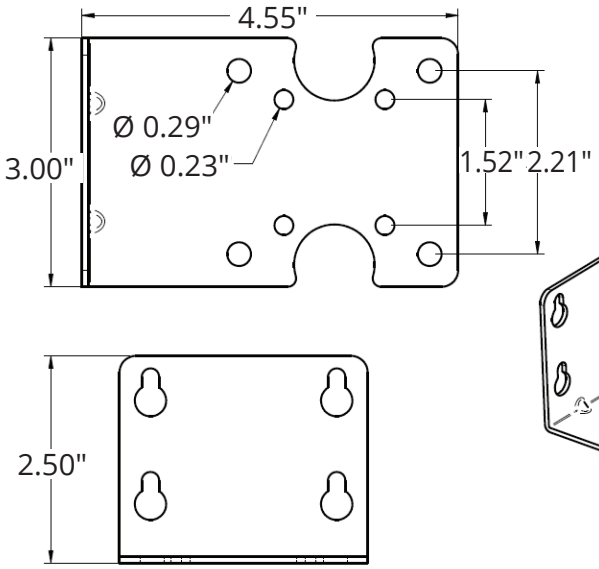


MOUNTING BRACKET KIT

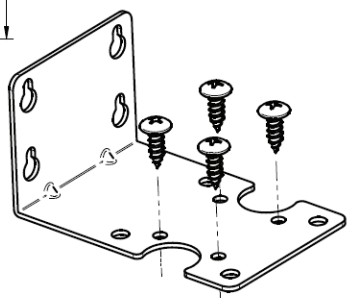
Part No.	Fits Housing Size
14FHPT-SMB	For all standard housings



NOTE: Never use a longer screw as there is a risk of puncturing the filter head



No. 14 Phillips Rounded Head Screw



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FILTER CARTRIDGE COMPATIBILITY:

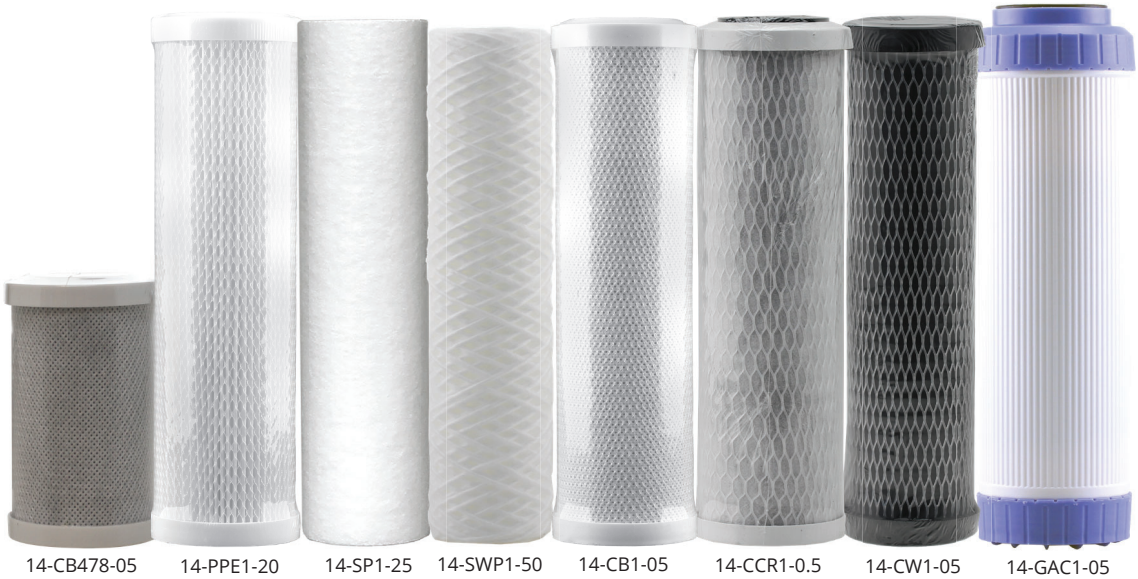
Cartridge Series Number	Cartridge Type	Fits Housing Type	Nominal Size	Actual Size
14-CB478-05	5" Standard Carbon Block	Fits 5" Standard Housing	2-1/2" x 5"	2-1/2" x 4-7/8"
14-PPE1-XX	10" Standard Pleated Polyester	Fits 10" Standard & Slim Line Housings	2-1/2" x 10"	2-1/2" x 9-3/4"
14-SP1-XX	10" Standard Spun Polypropylene		2-1/2" x 10"	2-1/2" x 9-7/8"
14-SWP1-XX	10" Standard String Wound Polypropylene		2-1/2" x 10"	2-1/2" x 9-7/8"
14-CB1-XX	10" Carbon Block		2-3/4" x 10"	2-3/4" x 9-3/4"
14-CCR1-0.5	10" Carbon Briquette Cyst Removal		2-3/4" x 10"	2-3/4" x 9-3/4"
14-CW1-05	10" Standard Carbon Wrap		2-1/2" x 10"	2-1/2" x 9-3/4"
14-GAC1-05	10" Standard Granular Activated Carbon		2-3/4" x 10"	2-3/4" x 9-3/4"
14-PPE2-XX	20" Standard Pleated Polyester	Fits 20" Standard & Slim Line Housings	2-1/2" x 20"	2-1/2" x 20"
14-SP2-XX	20" Standard Spun Polypropylene		2-1/2" x 20"	2-1/2" x 20"
14-SWP2-XX	20" Standard String Wound Polypropylene		2-1/2" x 20"	2-1/2" x 20"
14-CB2-XX	20" Carbon Block		2-3/4" x 20"	2-3/4" x 20"
14-CCR2-0.5	20" Carbon Briquette Cyst Removal		2-3/4" x 20"	2-3/4" x 20"
14-CW2-05	20" Standard Carbon Wrap		2-1/2" x 20"	2-1/2" x 20"
14-GAC2-XX	20" Standard Granular Activated Carbon		2-3/4" x 20"	2-3/4" x 20"

Filter Cartridge Lengths (9-3/4" vs. 9-7/8")

Nominal 10" filter housings are designed to accept 9-3/4" cartridges, which match the distance between the top and bottom sealing (knife) seats. These cartridges use rigid end caps or gaskets that compress against the housing to create a tight seal and prevent bypass.

9-7/8" cartridges are used only for string wound and spun polypropylene (depth) filters. These cartridges are intentionally made slightly longer (+1/8") because their softer media allows the housing's knife edges to embed into the filter ends. This compression ensures a proper seal and prevents bypass—an issue that can occur if these softer cartridges are only 9-3/4" long.

Rigid cartridge types cannot be manufactured at 9-7/8", as the extra length would prevent proper housing closure and O-ring sealing.



20" Nominal Filter Cartridge Lengths (20" vs. 20-1/8" Actual)

14-SP2-XX, 14-SWP2-XX (20-1/8" Actual)

14-PPE2-XX, 14-CB2-XX, 14-CCR2-XX, 14-GAC2-XX, 14-CW2-XX (20" Actual)

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INSTALLATION:

These installation instructions are applicable to the following series:

14FHK-SL: Slim line Filter Housings
14FHK-S: Standard Filter Housings
14FHK-G: Giant Filter Housings
14FHK-HTR: High Temperature Filter Housings
14HK-SS: 304SS Standard Filter Housings
14FHK-GSS: 304SS Giant Filter Housings

IMPORTANT: Read all specifications, installation instructions, and warnings before installing water filter housings.

IMPORTANT: Filter cartridges should be inspected before installation. Do not install cartridges showing signs of damage, contamination, mold or deterioration. Always follow the manufacturer's recommendations for storage, handling and replacement.



Parts and Materials Included

- Filter housing
- Mounting bracket and hardware
- Filter bowl wrench
- Replacement O-ring

Tools and Materials Required

- Adjustable wrench
- Fittings (refer to diagrams below)
- Ball type shut off valves
- NSF 61 Certified Silicone based lubricant (OR-LUBE)
- Pipe cutter
- Sandpaper and pipe de-burring tool
- Tape measure and pencil
- Filter cartridge
- Optional: Jumper Wire (required if you have metal piping to ground your system)
- Pipe thread sealing compound suitable for potable water (Boshart Gray Magic)

CAUTION: Not recommended to use PTFE tape as it acts as a wedge. As you screw the plastic male fitting into the plastic filter head, the tape packs the threads and dramatically increases radial and tensile stress

WARNING: Risk of electrical shock. If your water pipes are used to ground your houses electrical system, install jumper wires around the filter. Consult a building inspector or licensed electrician for more information.

WARNING: Do not use with water that micro-biologically unsafe or of unknown quality without adequate disinfection before or after the system.

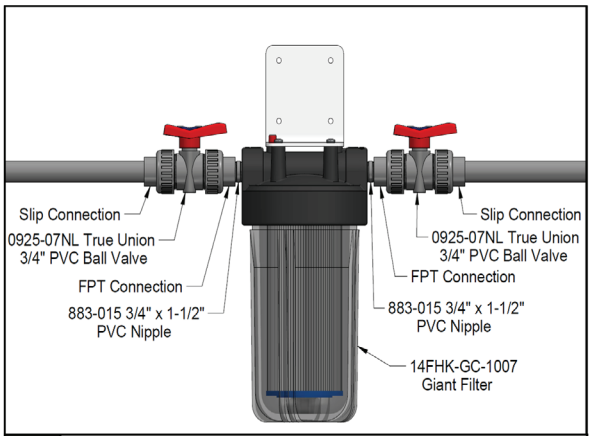
CAUTION: All filtration systems contain parts that have a limited service life which cannot be easily detected. Therefore, filter housings should be installed in an area where leakage will not cause property damage.

NOTE: Allow at least 2" above the filter head (for bracket, housing and shut off valve installation) and at least 3" below the filter bowl (for changing cartridge).

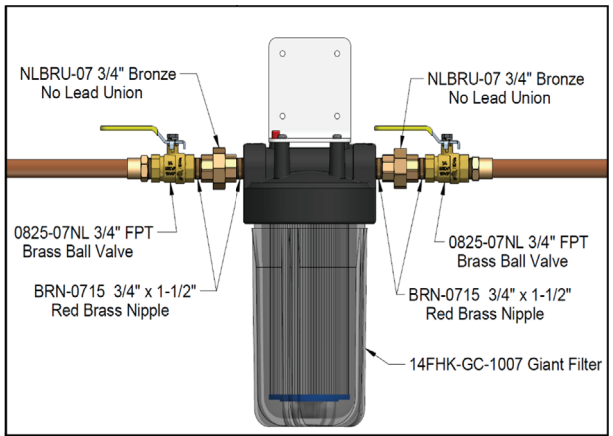
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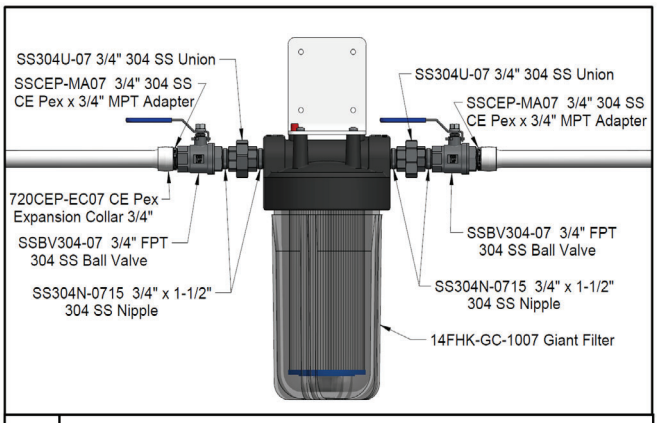


1. **Recommended Installation for PVC Fittings**



1. **Recommended Installation for Copper Fittings**

1. The recommended installation has a shut-off valve on both the inlet and outlet sides of the filter.

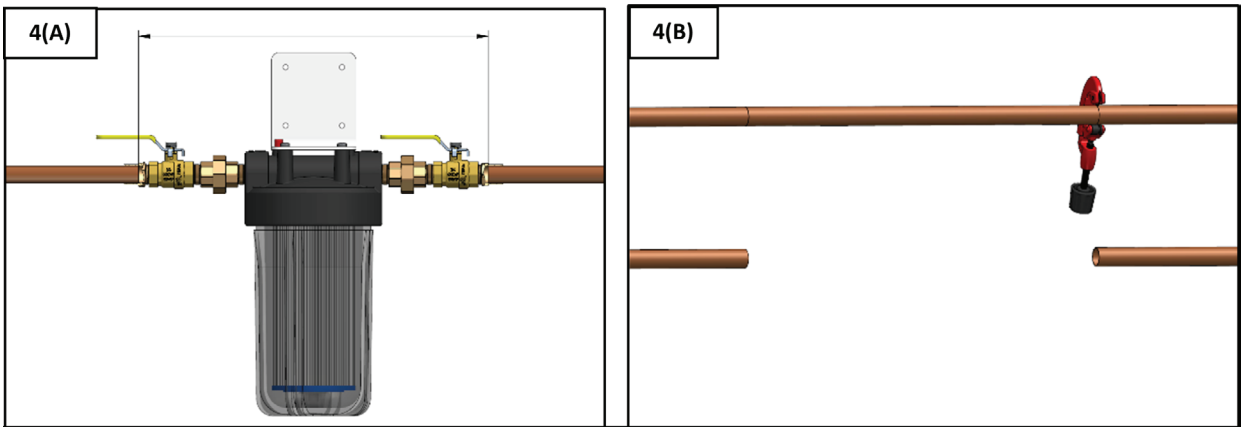


1. **Recommended Installation for Stainless Steel Fittings**

2. Using thread sealant, hand tighten pipe fittings to the new filter head, being careful not to cross threads. Using the wrench, firmly tighten one half turn only. Do not over tighten.

3. Turn off the water supply and release system pressure by opening the nearest faucet. Leave the faucet open.

4. Housing Replacement: Disconnect pipe,tubing from the filter head connections. New Installation: Measure (4(A)) and cut out (4(B)) enough pipe to allow for the total combined length of the filter head, fittings, and valves to be installed. Have a bucket ready to catch any water that may come out of the pipe. Remove burrs and sharp edges from pipe ends.



Measure and cut out enough pipe for the combined length of filter head, fittings, and valves.

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5. Mounting Bracket: Positioning the end marked “IN” facing the incoming water supply line, install onto the filter head using the screws provided. Mark out the location on the wall ensuring it is level, centered, and has proper support. Mount the bracket into position.

6. Align the filter assembly with ends of pipe. It will be necessary to spreads the end of the pipe apart to install filter assembly. Using two adjustable wrenches, holds incoming adaptor securely with one wrench and tighten nut with second wrench. Repeat procedure for outgoing adaptor.

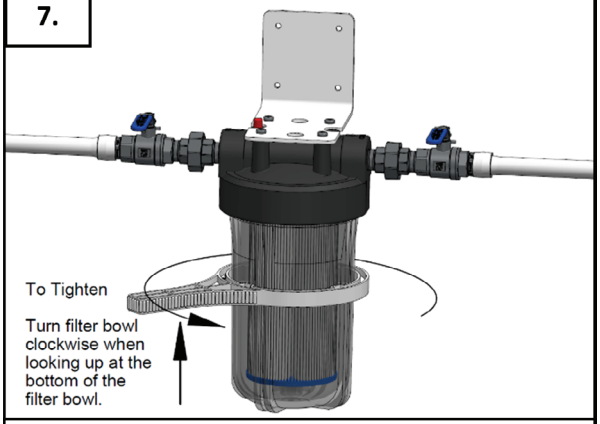
7. Install the filter cartridge and filter bowl onto the filter head Turn the bowl until hand tight. Do not over-tighten.

8. Close all valves (except for the faucet) and slowly turn on the water supply. Depress and continue to hold the red air release button while slowly opening the inlet valve. Allow water to fill the housing until it flows out of the release button. Open the outlet valve slowly to purge air from the line.

9. Keep the faucet open to flush the system for several minutes. Check for leaks.

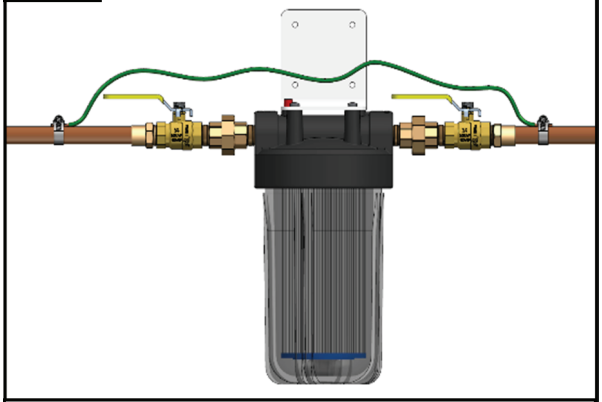
10. Optional: If water pipes are used to ground electrical system, install a jumper wire. Jumper wire must satisfy all NEC or CEC and local codes.

7.



Install the filter cartridge and bowl.

10.



Install a jumper wire if copper pipes are used for grounding.

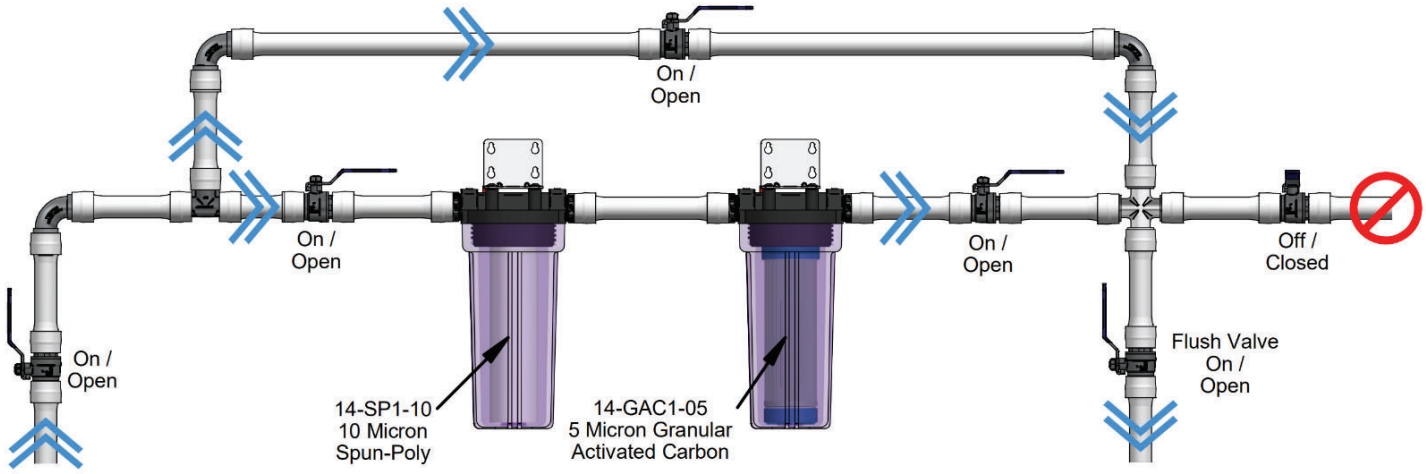
IMPORTANT: Ensure all gaskets from old cartridge are not laying in the bottom of the bowl as the new cartridge will not fit in.

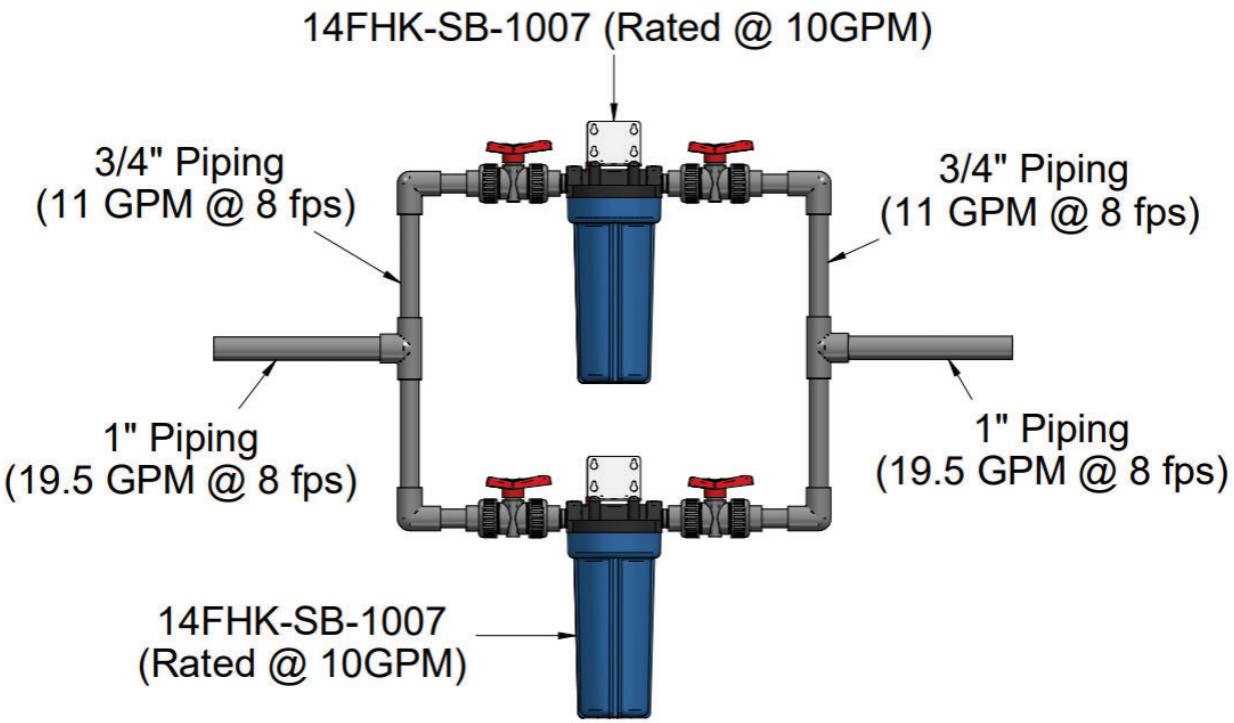
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11. Optional: Install a bypass section around the filter, a parallel filter configuration (B) or a series filter configuration (C).





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FILTER CARTRIDGE REPLACEMENT:

NOTES:

- **Micron Rating:** The lower the micron rating, the smaller the particle size cartridge filters remove.
- **Filter Life:** Filter life varies depending on usage and water conditions. Changes in tastem colour and flow of the water being filtered are signs that replacement of the cartridge may be necessary.
- **Flow Rates:** Actual maximum flow rates versus pressure drop will depend on cartridge selections and fluid viscosity.
- **Carbon Powder:** An activated carbon cartridge may contain a small amount of carbon dust, and a newly installed cartridge should be flushed with sufficient water to remove the fines before using the water.
- **Cellulose:** Cartridges containing cellulose may seem to disintegrate, produce a “sewer” or “rotten egg” odour, or form a black precipitate due to a reaction with some types of harmless bacteria. If you notice any of the above problems while using cellulose cartridges, switch to a synthetic cartridge.

Instructions

1. Shut off the inlet and outlet valves and depress the air release button on the housing the eliminate system pressure.

2. Place and bucket directly under the filter housing to collect water.

3. Using a filter wrench, remove the bowl by gently unscrewing counter-clockwise.

4. Remove and discard the used cartridge. Empty the filter bowl into the bucket.

5. Remove O-Rings and wipe clean of any dirt and lubricant. Inspect for damage and set aside. If O-Ring is damaged, discard and replace it.

6. Fill the bowl 1/3 of the way with water and add 1 Tbsp of bleach. Scrub thoroughly with a non-abrasive sponge or cloth to remove any build up of rust and scale particles. Rinse and ensure the O-Ring groove seating area is free of dirt.

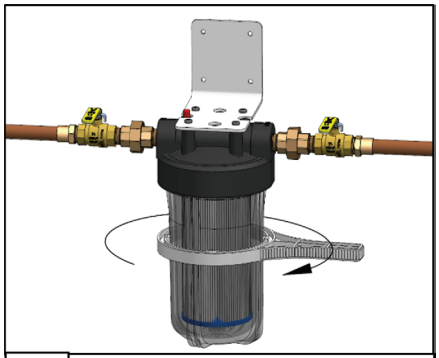
7. Remove protective packaging from new cartridge and place it into the bowl, fitting it over the post.

8. Lubricate new or cleaned O-Ring with a silicone based lubricant and place it into the groove. Make sure it is seated level and evenly.

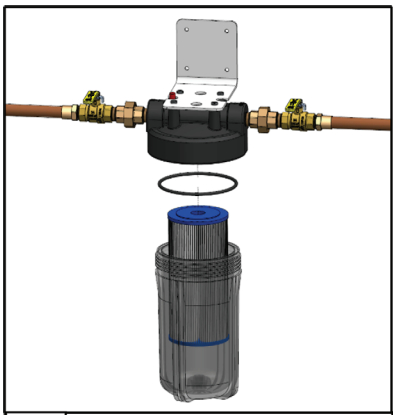
9. Install the bowl clockwise, turning slowly until the cartridge aligns with the post in the filter head. Hand tighten. Do not over tighten.

10. Depress and continue to hold the red air release button while slowly opening the inlet valve as water fills the housing. Continue until water flows out of the release button. Open the outlet valve slowly to purge air from the line.

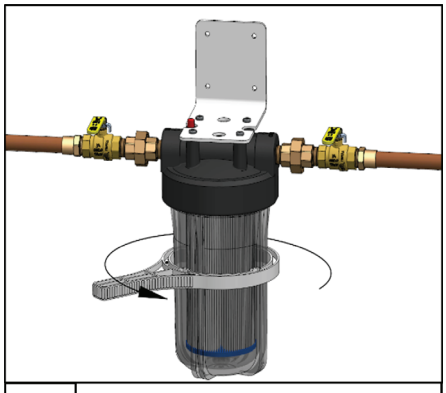
11. Flush the system for several minutes before use. Check for leaks.



3.	Remove the filter bowl.



5.	Remove and clean O-ring.



9.	Install filter bowl and hand tighten.

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