

SPECTRUM Inox Single & Multiround Stainless Steel Bag Housings

Instruction Scope

This document provides the necessary information to ensure the correct installation, operation and maintenance procedures for the removal and change out of various filter housings. For safety and environmental protection reasons, the safety instructions given in this document must be strictly followed. Although these instructions offer a reference to correct practices for a range of products, some system installations will not be included. The person installing or maintaining the equipment should have the following:

- Sufficient training in filter bags and housings
- Knowledge of water and filtration system installation
- Knowledge of fluid being filtered and chemical compatibility
- Suitable plumbing skills

When to change a filter bag

Regular maintenance and/or replacement of a filter bag is recommended to ensure that the system’s integrity is preserved and remains effective. The following parameters should be used to determine when the bag should be replaced:

Parameter/Instrument	Detail
Differential Pressure/PG3	When the differential pressure is greater than 1 bar (15psi)
Filter capacity	When the calculated or approximate volume or daily capacity of the filter has been reached



Housing Type	Maximum Operating Parameters	
	Pressure (bar)	Temperature (°C)
SBH-SPC (V-band clamp)	10	120
PBH-SPC-single & multiround (Swing bolt)	10	120

Installation & Bag changeout

Tools required:

- Protective/waterproof clothing and gloves.
- Safety glasses.
- Cloths/mop/bucket for any spillages.
- Suitable container for liquid drained from the system.
- Food grade lubricant (such as DOW corning or petroleum jelly).
- Soapy warm water.
- Clean, warm water for rinsing.
- Application suitable fluid for sanitising such as unscented bleach (5.25% Sodium Hypochlorite).
- Replacement bag(s).

Personnel

Only qualified and professional personnel, with the relevant training and experience are recommended to carry out the necessary work. Knowledge of the applicable regulations, safety rules and operator considerations are required prior to installation.

Pre-installation checks

Before starting work please check the following:

- Ensure that there are no signs of damage to the packaging and that the product has not come into contact with liquid or any external contamination during transport, storage or handling.
- Type of fluid being filtered is compatible with the housing and cartridge materials. Also check that all relevant PPE is available.
- Make sure the incoming water line has been turned off and depressurised.
- The workspace is clear of any obstructions or electrical hazards.
- All protective packaging has been removed before bag installation.

Full product specification: including minimum operating temperature, recommended changeout pressure drop and maximum flow rates can be found on the relevant product datasheet available from our website.

Procedure

NOTE: If installing filter bags for the first time in a new system, follow steps 1, 4, and 7 onwards.

1. Close the stopcock or turn off the incoming feed supply.
2. Depressurise the housing(s) using the vent, or by opening an outlet downstream of the system.
3. Drain any remaining liquid in the housing through the drain valve, if present.
4. Remove bag housing lid (ensuring all pressure has been released from the housing).

NOTE: on multiround bag housings a bag hold down device is present. This will need opening/removing to allow the bags to be removed, and closed/replaced when bags have been changed.

5. Remove the bag support basket from the housing using the relevant PPE then remove the bag filter from inside the support basket and dispose in accordance with company and local authority guidelines.
6. Remove any O-ring(s) from the housing and wipe both the groove and O-ring clean. Put to one side.
7. Clean and sanitise the housing and basket with warm soapy water or application suitable fluid then, wipe the inside of the sump with a non-abrasive cloth. Rinse with clean water.
8. Inspect the O-ring for any damage, such as nicks or cuts and replace with a new O-ring if necessary (contact housing supplier for information regarding replacement O-rings).
9. Lubricate the O-ring with an even coating of lubricant and locate back into place do not use too much lubricant.
10. Remove the new bag filter(s) from any packaging, detach any labels and place into support basket (easiest method is to put your arm in to the bag and push to the base of the basket). Once seated, place the basket in to the housing and ensure the neck seals against the sides of the vessel.

11. Add the lid back on to housing, ensure it is seated centrally and secure.
 - i) SBH-SPC housings utilise a V-band clamp for closure. Wrap the clamp around the head and sump join and push together. Place the end of the T-bolt device into the recess on the clamp and tighten
 - ii) PBH-SPC housings utilise swing bolts for closure. Ensure the lid and sump are lined up so the swing bolts (attached to the sump) locate into the recesses on the lid. Tighten the swing bolts in place.

12. Ensure housing heads and sumps are sealed correctly.

NOTE: Generally, the larger micron rating filters should be situated upstream of lower micron ratings. Check the direction of flow on the filter housing head if unsure.

13. Slowly turn the liquid supply back on, allow the system to fill and check for leaks. If a leak is detected check that the lid/sump is secure enough. If this does not solve the leak remove the lid and check the seating of the O-ring/seal. Air can be purged from the system using the vent, or by slowly opening an outlet downstream of the system.
14. Flush the filter(s) thoroughly and discard the liquid passed through the system during the first 5 minutes of start-up or until the liquid runs clear.
15. The system is now ready to use.

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