

Dear Customer,

Thank you for purchasing this high quality filter housing from Strainrite. This pressure vessel has been manufactured from the highest quality materials by skilled craftsmen. Each vessel undergoes rigorous testing prior to shipping to ensure your satisfaction.

1. **General Requirements and Safety information**
2. **Operation & Installation**
3. **Parts list**

1) **General Requirements:**

a. **Safety Pressure Relief:**

- i. We strongly recommend that a pressure relief valve be used to prevent over-pressurizing the vessel. Over-pressurizing could cause serious damage to both the unit and the operator. The installation of pressure relief valve(s) is the responsibility of the owner/operator. The allowable working pressure and temperature(s) are marked on the vessel's name plate. The pressure relief should be installed in a location so that it is not isolated from the vessel by process stop valves.
- ii. For further information on pressure relieving devices see
ASME VIII Div.1 UG 131-UG 140

b. **Management System Responsibilities**

- i. The user has the responsibility to establish and maintain a management system that ensures the vessel is not operated without overpressure protection including but not limited to:
 1. Establishing the pressure relief philosophy and the administrative controls requirements.
 2. Establishing procedures to ensure that the equipment is adequately protected against overpressure.
 3. Ensuring that authorization to operate identified valves is clear and that personnel are adequately trained for this task.
 4. Establishing periodical safety inspections.
- c. **Pressure indicating device:** Device range should be graduated with an upper limit that is neither less than 1.25 times the set pressure nor more than twice the maximum allowable working pressure of the vessel.
- d. **Registration:** Depending on size, pressure, and contents, local laws may require the pressure vessel to be registered within 30 days of installation and be subject to periodical inspections by the governing authority.
- e. **Electrical Devices** attached on or near vessels require ground fault power supply and may require hazard class ratings.
- f. **Venting** may release condensed vapors into the air. Operator exposure and ignition sources including static may need to be controlled.

2) Operation & Installation – Servicing Instructions

- a. **Warning: Relieve All Pressure Before Servicing Vessel.**
- b. Once you have decided where your unit will be located, the legs should be secured to the floor with the appropriate fasteners and the piping connections made. Care should be taken when the piping is installed so that you do not place piping loads on the vessel. The design of piping supports and expansion joints are the customer's responsibility.
- c. Valves should be operated slowly.
- d. **Opening the vessel:** Upon receiving your new vessel housing, you will notice loop type eye nuts located on the cover.

Warning: Do not loosen bolts while under pressure.

Unscrew each eye nut far enough so that it swings away from the lid bracket and can hang down on the side of the vessel. The cover is now ready for lifting. Once the cover is opened, you will see a basket inside. You will notice on the top rim of the vessel body an "O" ring. This gasket sits between the two metal surfaces of the cover and vessel body to prevent leakage. When lifting the basket out you will also notice another "O" ring located underneath the basket flange. This gasket prevents contaminated fluids from entering the filtered fluid.

- e. **Bag change-out:** For best results, the filter bags should be changed when the differential pressure is between 15 to 25 pounds per square inch. The differential pressure can be calculated with the use of gauges connected to the inlet and outlet. The outlet pressure is subtracted from the inlet pressure. The result is the differential pressure or delta P. High differential pressures can damage the retainer basket and should be avoided. The basket supports the filter bag inserted into it. Filter bags are available in a wide variety styles and are sold separately. Remove the dirty filter bag and dispose of it according to proper company, local and federal requirements. The top ring of the filter bag should sit snugly inside a metal rim on the basket flange. The filter bag should be pressed down to the bottom of the basket with either, your hand and arm, or by using a long blunt instrument. Each time a new filter bag is installed it is important to ensure that the sides and bottom for the bag are against the basket.
- f. **Closing the vessel:** Check the O-ring on the top of the vessel body where the lid meets the vessel and underneath the basket flange. Lower the cover and align the cover slots so they line up with the swing bolts. Bring the swing bolts up into the slots of the cover and tighten them evenly by hand. Now you can go back to each eye nut and tighten bolts securely to prevent fluid leakage. With the cover secured, the vessel can be refilled and checked for any leakage around the gasket area. Once the vessel is checked and no leaks are found the vessel can be pressurized and returned to service.

Warning: Do not tighten bolts while under pressure.

- g. **Prohibited service conditions:** Cyclic/pulsing pressure, non-compatible fluids, lethal service, highly corrosive fluids, Fluid Hammer.

SRHD PARTS LIST

No.	Description	Qty	Material	Part #
1	Swing bolt	3	SA 193 B7	150285
2	Pin	3	SA 193 B7	350136
3	Eye nut	3	SA 194 2H	150297
4	Washer	3	Carbon Steel	150603
5	Basket gasket	1	Buna *	151462
6	Cover gasket	1	Buna *	150148
7	#2 Basket Mesh	1	Stainless Steel	350153
	#1 Basket Mesh	1	Stainless Steel	350152
8	Tripod Stand	1	Carbon Steel	350501
9	Compression Device	1	Stainless Steel	350170

2 Basket for use in SRHD2
1 Basket for use in SRHD1

* Gaskets are available in Buna, Neoprene, Viton, and Teflon encapsulated Viton or Ethylene Propylene.
Teflon is a Du Pont trademark

