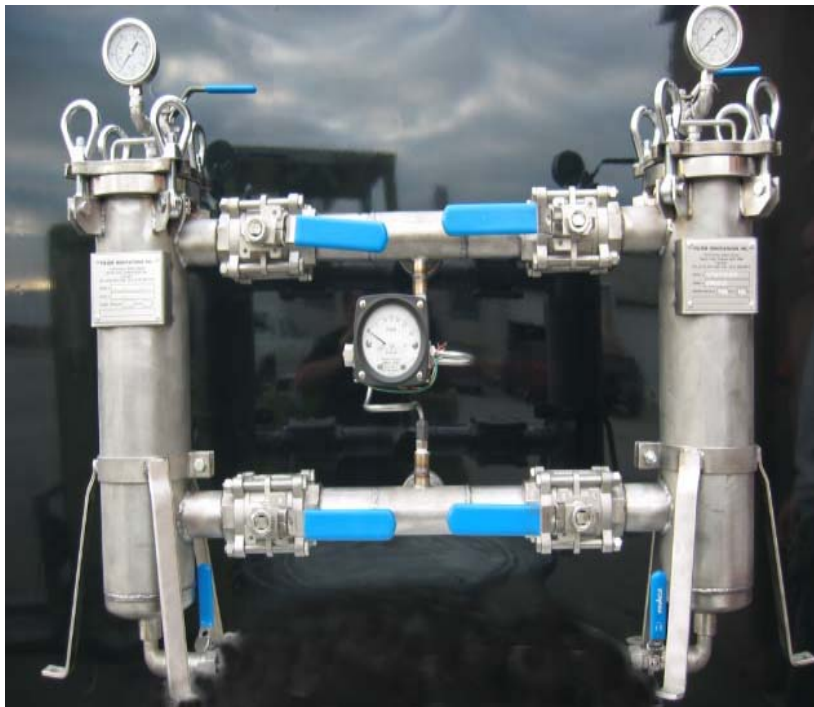


Operation Manual

Bag/Cartridge Filter Replacement

Single or Duplex or Multi Bag Vessels



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Operating Instructions

General Instructions:

For all operational cycles of *Filter Innovations* pressure vessels (i.e. single pass filtration, recycling or evacuation) the following instructions should be followed in order to ensure optimum operation and maximum service life.

1. In all systems, a pressure gauge should be installed in the ¼" NPT outlets on the cover. Whenever the vessel is being used in an open discharge system, this gauge will give a direct reading of pressure drop across the bag. If the filter is used in a closed system, a second pressure gauge should be installed in the downstream pipeline. The differential reading between the two gauges indicates the pressure drop across the filter bag.
2. Standard *Filter Innovations* pressure vessels are designed to operate at up to 20 psi pressure drop across the filter bag. Actual operating pressures vary and the required frequency of bag changes can be determined only by experience in each individual process.
3. A vent valve should be installed in the inlet piping. As air in the vessel is displaced by liquid, an air pocket will form at the top of the vessel. Venting will allow the full surface area of the filter bag to be utilized.

Important: After operation, the vessel must *always* be vented *before* opening the cover.

Insertion of Filter Bags:

1. Insert the filter bag into the restrainer basket (already installed) and form the bag to the contours of the container by pressing against the restrainer. Place "spaghetti" media into the filter bag for pre-absorption and particle removal (optional).
2. Check the positioning of the O-ring, which should be properly seated in the filter. The ring of the filter bag must be seated in the edge provided by the restrainer basket.

Proper Closing Procedures:

1. Close the cover carefully. Do not drop cover, as O-ring positioning must remain undisturbed.
2. Bring all hold-down bolts into position.
3. Tighten by hand first the two rear bolts and then the two front bolts.
4. Final tightening should be done by repeating step 3 until the filter cover is tightly and evenly closed. This procedure must be followed to ensure complete sealing.

Product Photographs

