



SANI+MATIC

Basket Strainer Operation and Installation Instructions

Application

Basket Strainers are typically installed on the discharge side of pumps to collect incidental debris and/or product components from a process stream. The basket should be removed and cleaned a minimum of once per shift. More frequent removal and cleaning may be required with heavy product loads.

Maximum Operating Pressure Ratings (system pressure)

As assembled with 13MHHM clamp with wing nut tightened to 25 in. lb. of torque:

100 psi @ 200 °F for the housing
50 psi @ 200 °F for the insert

Note that filter bags placed inside of the basket on perforated units may have internal differential pressure ratings much lower than the basket and housing. Consult the filter bag manufacturer for specific bag ratings. High differential pressures can easily damage or rupture filter bags.



Installation

Basket strainers are designed for flow in one direction. The proper orientation results in the soils being collected on the inside of the strainer basket. Basket strainers are supplied only as 'Side-Inlet' flow, as indicated by the arrow on the side of the housing.

Strainers should be installed with the housing in a vertical orientation. The piping should be adequately supported so that the piping does not place excessive stress on the strainer fittings. If the strainers are to be installed with the housing in a horizontal orientation, the strainer basket must be supplied with support bars to hold the strainer basket concentric with the housing when it is assembled.

To monitor plugging of the strainer during operation, pressure gauges may be installed on both sides of the strainer to measure differential pressure. When the strainer has been cleaned, it will have the minimum differential pressure at the operating flow rate. If the strainer starts to get plugged, this can be detected by an increase in the differential pressure.

In addition, electronic signals from differential pressure sensors may be included to automatically detect and alarm the control system.

Valves may also be added downstream and / or upstream of the strainer to allow opening and manual cleaning of the basket without draining the entire line.

Safety Precautions

- 1) Do not exceed pressure rating of the housing or the basket.
- 2) Do not loosen or remove any cover swing bolts while the strainer is under pressure.
- 3) Do not attempt to pull wires or debris from the strainer basket with bare hands. Wires and metal shards can be extremely sharp.
- 4) Do not run bare hands over the strainer basket. Small wires or metal shards caught in the strainer may not be readily visible and may be extremely sharp.
- 5) Do not replace any strainer components with parts not supplied for the strainer by Sani-Matic.
- 6) Lockout supply pumps during cleaning to prevent accidental operation when the strainer is open.

Assembly

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- 1) Install the O-ring on the basket, by sliding it over the basket and into the O-ring groove. Do not use sharp tools, as these will damage the O-ring.
- 2) Grease the O-ring with Food Grade lubricant containing no mineral oils.
- 3) For perforated baskets with bag filters, slide the bag into the inside of the basket until the bag ring is seated in the basket ring.
- 4) Place the media positioning ring on top of the bag ring with the notches at approximately 90 degrees to the handle.
- 5) Place the ends of the locking latch (wire clip) into the notches on the media positioning ring, and snap the locking latch under the basket handle into the notch provided on the bottom side of the basket handle.
- 6) Place the basket assembly into the housing and slide down into the strainer housing until the O-ring slips into the seat and the basket handle is far inside the housing so that the cover may be closed.

NOTE: For rubber O-rings - apply food grade lubricant to O-ring prior to sliding the basket into the strainer housing.

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