



Solids Recovery Vessel

SRV-816

An effective closed-tank method for handling purged solids and liquids.

Capturing separated solids for easy handling and returning purged liquid back into the system, this compact package eliminates costly liquid loss, messy open containers and the problems often encountered when drains or other means of solids/liquids disposal are remote or nonexistent. Separated solids are simply purged at a continuous rate directly into a solids recovery vessel, which is integrally equipped with a solids collection bag in a stainless steel basket. Purged liquid, passing through the polyester-felt bag is then drawn back into the system, either by the separator's Vortube connection or by means of the system pump's suction (see diagram).

Basic SRV Package

Retention Vessel: 304 stainless steel.

Retention Vessel Lid: Epoxy-coated carbon steel.

Internal Baskets: One, stainless steel.

Purge Collector Bags: Polyester-felt material, 25-micron rating. NOTE: an optional 50-micron bag may be specified. Two bags provided.

Air Relief Valve: 1/4" Float vent valve.

NOTE: Manual valves are required, but not included in basic package.

Optional Indicator Package

SRI-816

To help determine when bag change-out is necessary, choose the Optional Indicator Package. Responsive to increased pressure differential as the vessel accumulates with purged solids, this assembly identifies when the solids collection bag is full, minimizing routine servicing.

① Ball Valves: Two per package; 3/4-inch (female, N.P.T.) manual; bronze body¹, stainless steel ball, teflon seat.

② Sightglasses: Two per package; 3/4-inch (female, N.P.T.); bronze¹.

③ Annunciator: One per package; 1/8-inch (female, N.P.T.); tubing connections; "pressure indicator" style².

④ Flow Control Orifice: One per package; 3/4-inch (female, N.P.T.); bronze¹. For 3-inch and larger, use 10 U.S. gpm (2.3 m³/hr). For 2-inch and smaller, use 2 U.S. gpm (0.5 m³/hr).

See reverse for additional specifications

⑤ Clamp: Stainless steel band with hardware to mount annunciator to body of SRV vessel.

⑥ Tubing: To hook up high/low pressure connections on annunciator; 1/4-inch diameter poly tubing for 150 psi (10.3 bar) or less; water use only; 6 feet (1.8m). End connectors also provided.

⑦ Hose Connections: 3/4-inch, barbed x male thread connections.

⑧ Hose: Reinforced rubber, 3/4-inch.

¹ Also available in stainless steel. Consult factory for any special application requirements.

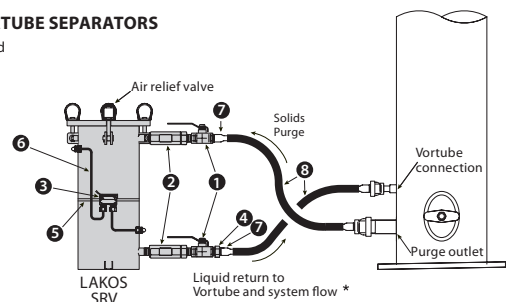
² Optional electronic contact switch (DEC-100) is available to operate a 12 W light; 125/250 VAC-28 VDC, 2 amp. (Voltage booster relay available to activate buzzer or other indicator device).

NOTE: Annunciator is pre-set by the factory at a prescribed pressure differential of 15 psi (1 bar).

FOR EXTERNAL VORTUBE SEPARATORS

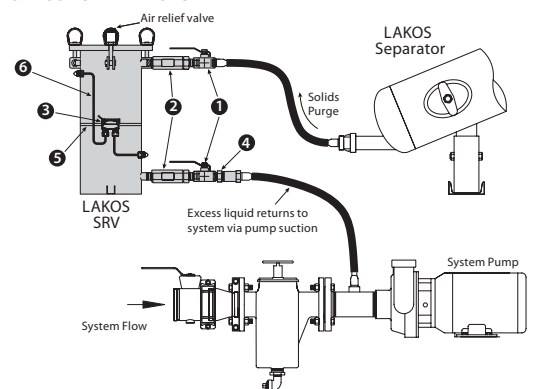
Shown with excess purged liquid return to system via LAKOS Vortube.

*Note: Use of the Vortube for recovering excess purged liquid requires a minimum pressure loss of 7 psi (0.5 bar) through the LAKOS Separator. Alternatively, use pump suction option (see illustration below).



FOR INTERNAL VORTUBE SEPARATORS

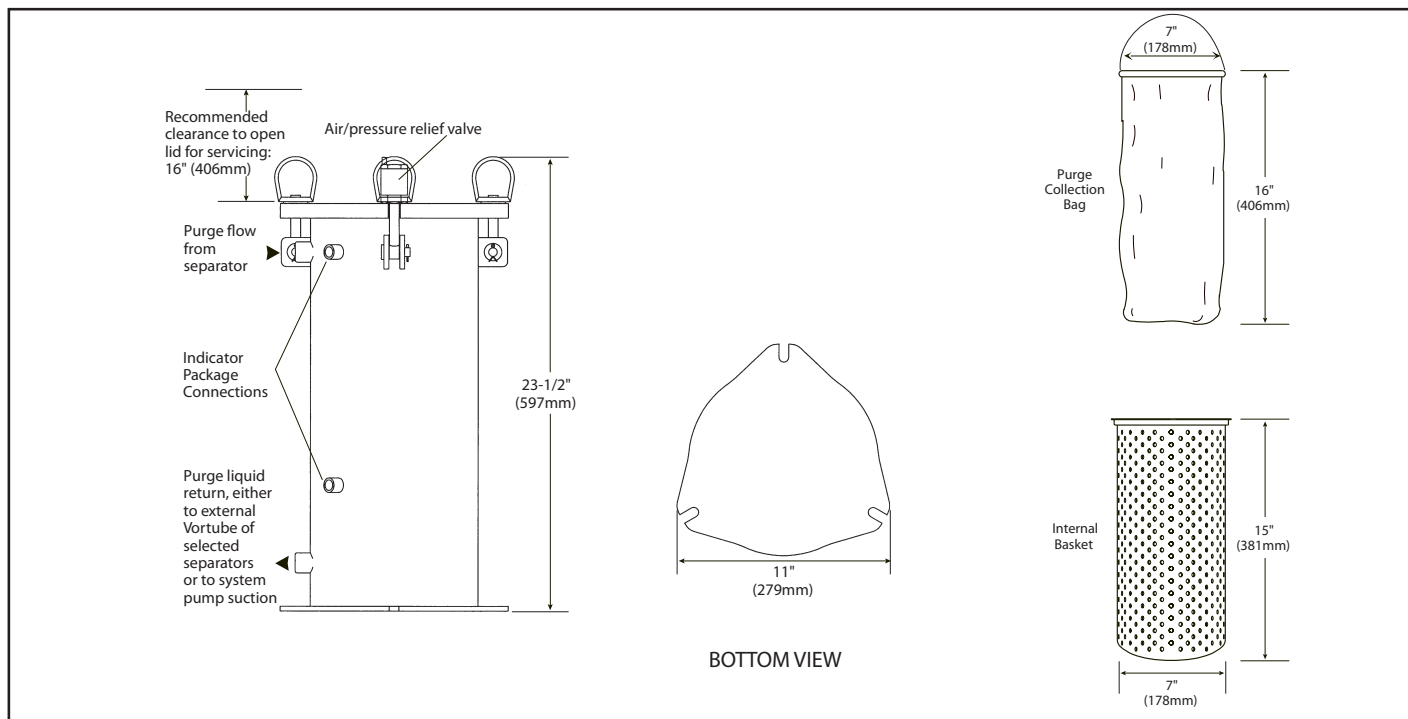
Shown with excess purged liquid return to system via pump suction.



LAKOS

Solids Collection Capacity: 360 cubic inches/6 liters
Liquid Retention Capacity: 5.0 gallons/19.0 liters
Total System weight (without liquid): 40 pounds/18 kg

Maximum Pressure: 150 psi/10.3 bar
Maximum Operating Temperature: 180°F/82°C



Maintenance Procedures

Separated solids collected in the SRV vessel must be periodically removed. The collector bag may be cleaned and re-used or discarded and replaced. This operation can be performed without interrupting system flow or the LAKOS Separator's operation (see instructions below). Recommended maximum solids load per bag is 25 lbs. (11kg).

The Indicator Package uses a pressure-differential sensor to identify when the bag should be serviced. The standard gauge will point to a red zone, indicating needed servicing. The optional dry electric contact will engage whatever indicator is connected (a light, buzzer, horn, etc.).

Follow these Steps:

1. Close the manual valve on the purge line. Wait for 30-45 seconds.
2. Close the manual valve on the liquid recovery line.
3. Open the manual pressure relief valve to release trapped air.

IMPORTANT: Wait until all pressure has been released before proceeding.

4. Open the lid to the SRV vessel. Remove the retainer. Grasp the stainless steel basket handle and remove the entire assembly from the SRV vessel. Remove the bag(s) and clean/replace in the basket.
5. Check o-rings on the basket lip and SRV vessel lid; replace if damaged. Replace the basket/bag assembly in the SRV vessel. Replace the retainer. Close lid and secure properly.
6. Fully open the manual valve on the purge line.
7. The air relief valve will vent air automatically.
8. Fully open the liquid recovery line valve. If the indicator Package is installed, check the sightglasses for proper flow to and from the SRV vessel. System is now back in operation.

Lakos Separators are manufactured and sold under one or more of the following U.S. Patents: 3,289,608; 3,512,651; 3,568,837; 3,701,425; 3,947,364; 3,963,073; 4,027,481; 4,120,795; 4,123,800; 4,140,638; 4,147,630; 4,148,735; 4,305,825; 4,555,333; 5,320,747; 5,338,341; 5,368,735; 5,425,876; 5,571,416; 5,578,203; 5,622,545; 5,653,874; 5,894,995; 6,090,276; 6,143,175; 6,167,960; 6,202,543; Des. 327,693; and corresponding foreign patents, including 600 12 329.4-08 (Germany) and EP 1 198 276 B1 (EU); other U.S. and foreign patents pending.



LAKOS is a proud member of ASHRAE, BOMA and the U.S. Green Building Council

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