



WINSTON / ROYAL GUARD CORPORATION

Type 110V Vertical In-line VANE Separator

For light liquid loading, our type 110V Vertical Vane Separator is an excellent choice for removal of mist and entrained liquid particles from a process gas, steam, or air application.

For parafins or sticky solids, a flanged cover and removable vanes allow for cleaning if required. The inlet and outlet nozzles are opposing, offering an inline configuration for ease of installation.

Shown at right is a field installation of the Type 110V Separator with a Type 150H Filter-Separator in the background.



How it works: Mist and entrained liquid particles are separated from the gas due to changes in flow direction as the gas passes through the tortuous path of the corrugated vane plates. Gas flowing through the vane is able to follow the changes in direction, however, inertial impaction causes liquid particles to separate as they are heavier and cannot change direction with the gas. Impinging upon the vane surfaces, liquid particles become enlarged through coalescence as they travel along these surfaces, and finally fall toward the drain. Clean, dry gas exits through the outlet.

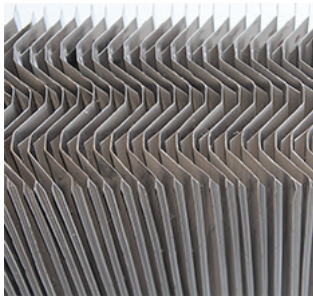
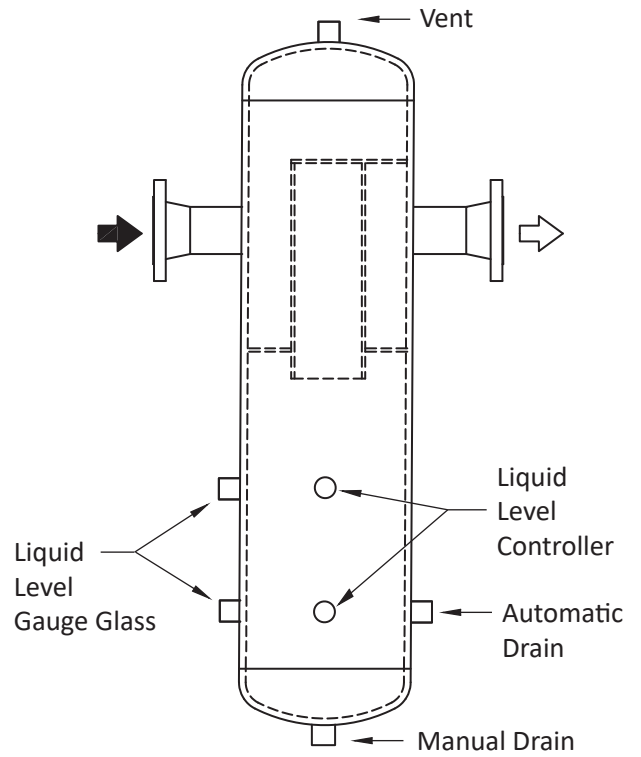
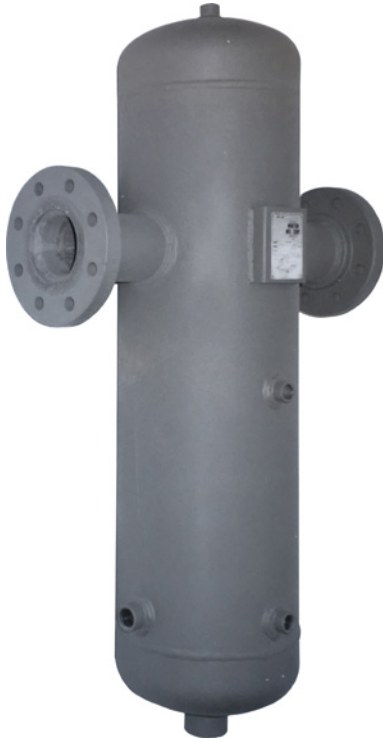
Benefits:

- Efficient design removes 99.9% of liquid particles 8-10 micron size and larger
- Vertical design offers a small footprint for limited space applications
- For long life, 316 Stainless Steel is the standard material for our Vane element
- Will remove small solids suspended in the liquids

ASME Code Certified: Winston/Royal Guard is an ASME Section VIII, Division 1 Code certified manufacturing facility with National Board certification. Capabilities include all types of non-destructive testing with a rigidly controlled Quality Control system.



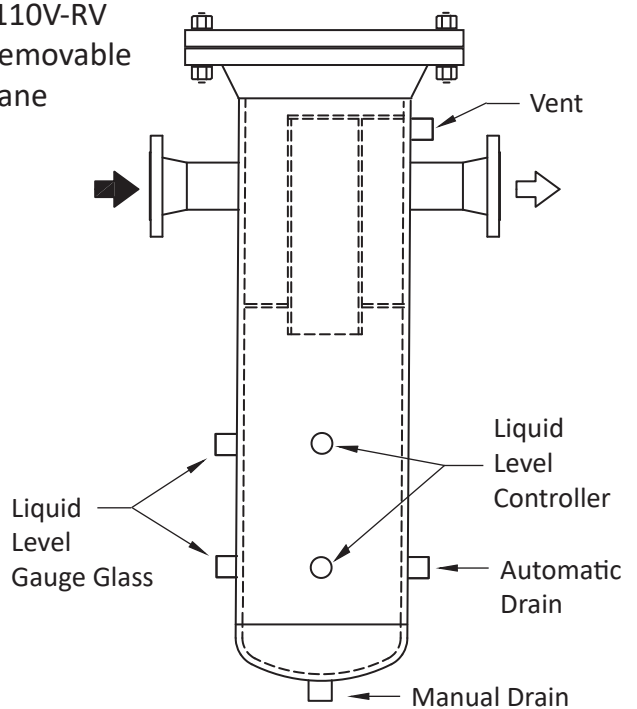
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Typical Vane Section

Note: The Connections shown here are typical for gas service and will vary with customer requirements. Steam service will typically have steam trap and vent connections only.

Type 110V-RV
with Removable
Vane



Specifications are subject to change without notice. 9-5-2017

WINSTON / ROYAL GUARD CORPORATION

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