



WINSTON / ROYAL GUARD CORPORATION

Type 100H Horizontal VANE Separator

The Type 100H Horizontal Vane Separator efficiently removes liquid slugs, mist and other entrained liquids from natural gas, process gas, or steam. Slugs and liquid particles 8-10 micron and larger are removed, providing clean dry gas for the protection of compressors and other equipment in gas transmission pipelines and gas gathering systems.



Shown at right is an insulated Type 100H separator for removal of entrained water from steam.

How it works: As gas enters the separator, liquid slugs fall to the bottom of the vessel while the moisture-laden gas flows toward the vane separator internal. Mist and entrained liquid particles are then 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 to the bottom of the separator. Clean, dry gas exits through the outlet.

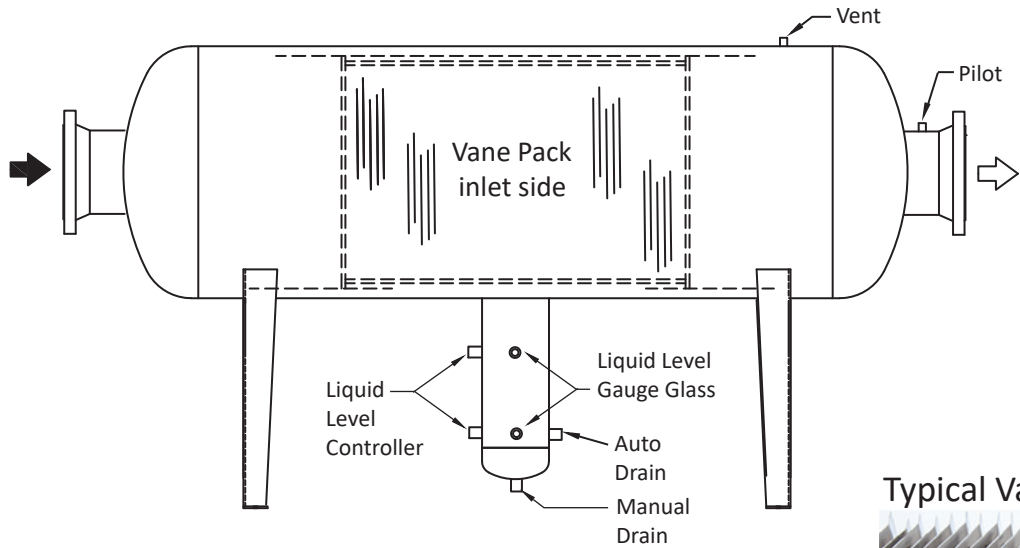
Benefits:

- Removes 99.9% of liquid particles 8-10 micron size and larger from a gas stream.
- Efficient operation over a wide range of flow.
- 316 Stainless Steel is the standard material of construction for the vane internal, providing optimum lifetime.
- Light loading of non-sticky suspended contaminants are also removed with 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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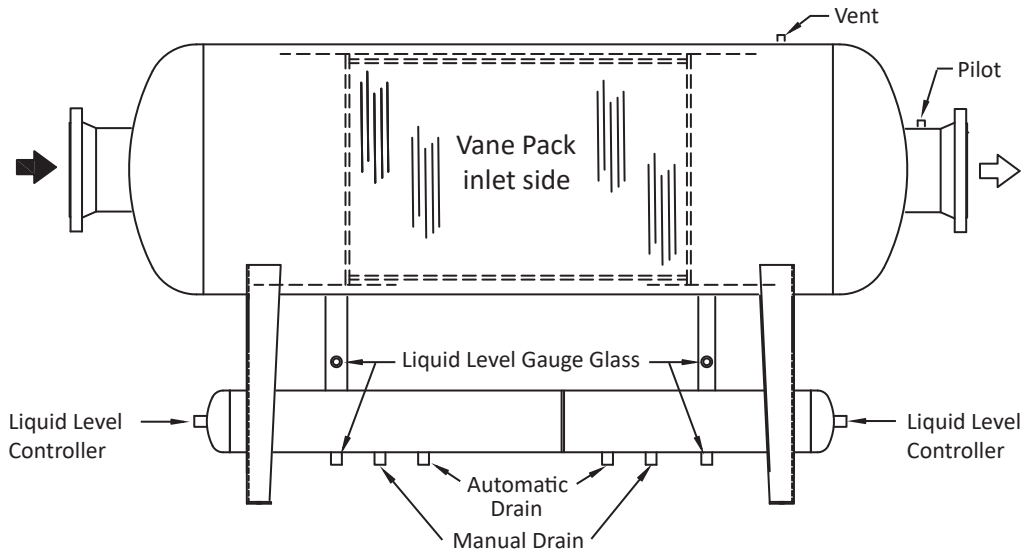
Type 100H with boot for liquid retention

Typical Vane section



NOTE:
Connections shown are typical and will vary with customer requirements.

Type 100H with horizontal barrel for liquid retention



Specifications are subject to change without notice. 9-20-2017

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