

# Vane Pack

Vane pack is coalescing internals made of several layers of corrugated plates regularly spaced one from each other by spacers. These vane packs are used to pick up the liquid particles from a gas stream.

### Operating Principle :

The liquid particles in a gas stream enter the pack with more inertia than the gas molecules. In the changes of direction due to the presence of vane pack, the droplets gather themselves in the corrugations by wetting them to get a sufficient size to drop by their own weight.

### Technical Specification :

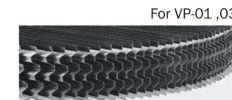
MOC : SS316/314

Size : As per the quotation

Efficiency : The vane pack is capable to stop at more than 99.5 % the liquid particles which size is above 20 µm and 8µm.

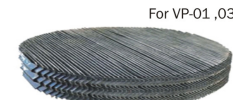
### Types of SW-Vane Pack :

The shreewire range of vane pack are the Chevron type of vane pack which consist on a set of specially designed vanes with a well defined geometry.



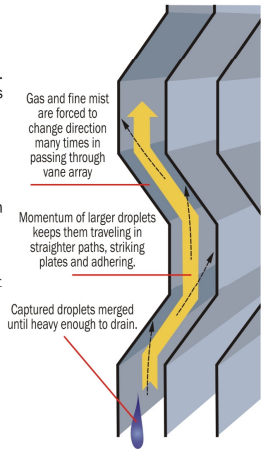
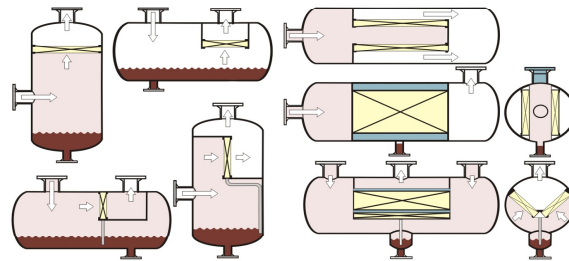
SW-Single pocket Vane Pack

- SW-VP-01 • SW-VP-02



SW-Double pocket Vane Pack

- SW-VP-03 • SW-VP-04



### Location of Vane Pack

#### Advantage :

High velocity, high liquid load, fouling and clogging, longer corrosion life, low pressure drop, high liquid viscosity handle.

#### Application :

Refinery, Gas absorption system, Sulfuric acid plant, Petrochemical plant, Flue gas desulfurization, Low pressure evaporators, Pulp and paper mills.

#### Operating Conditions :

Operating velocity ( $V_{op}$ ) =  $K \sqrt{(\rho_g / \rho_l)}$

- $\rho_l$  = liquid density in kg/m<sup>3</sup>;  $\rho_g$  = gas density in kg/m<sup>3</sup>;  $k=0,31$  m/s (for V max)  $k=0,20$  m/s (for V calcul)  $k=0,05$  m/s (for V min)
- Pressure drop ( $\Delta P$ ) =  $0,3 V^2 \cdot \rho_g$

