



**SOLBERG**<sup>®</sup>  
Filtration & Separation

**STS Series**

**Vacuum - Liquid Removal Solutions for  
Polymer Drying Applications**

## **Liquid Separator Protects Vacuum Pump from Volatile Contamination**

### ***The Equipment***

Leybold Dry Compressing Vacuum Pump (630 m<sup>3</sup>/hr)

### ***The Challenge***

The customer carries out a vacuum drying process to remove moisture content from polymers. Due to the nature of the plastic materials, and the deep operating vacuum level, volatiles carried over to the screw vacuum technology, resulting in the requirement for regular pump maintenance.

### ***The Solution***

Solberg supplied STS Liquid Separator assemblies to protect the dry vacuum pump. The clear polycarbonate collection bucket allowed the end user to complete a simple visual inspection of collected contaminants.

### ***Results***

The STS removes healthy liquid levels, preventing them from entering the vacuum pump and promoting optimal equipment health.

### ***Solberg Products Provided***

STS-401C

### ***The Product***

With the STS Series, inlet air with potentially harmful liquid and large particulates are separated from the housing by baffling mechanisms and changes in the direction of flow. The larger particles and liquid drop down and collect at the bottom of the separator. The float capsule within the separator screen rises with the liquid level until max capacity and limits the flow, thereby protecting the pump from damage.



### ***STS Series Design Features***

- Compact design for space restrictions; min. service area
- Inlet above elements for extended element life & maintenance intervals
- Corrosive-resistant cast aluminum top with machined connection and integrated baffle design
- Shatter-resistant polycarbonate drop-down bucket
- Stainless steel float capsule for emergency shut-off

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