

Foam Level In Pharmaceutical Bioreactor Vessel

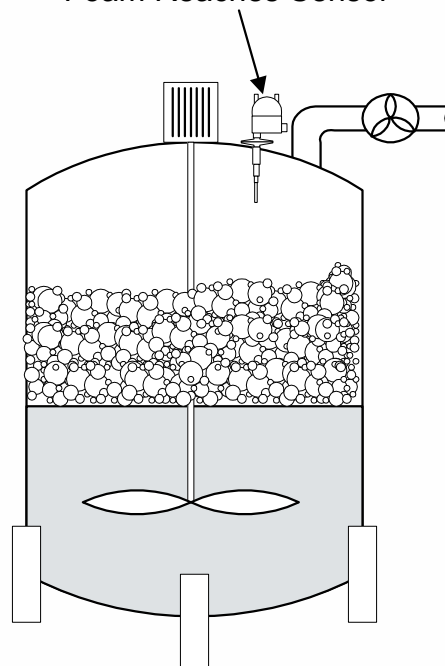
The Problem:

- If Foam reaches a high level, it will foul filters causing the process to upset and the batch to be ruined.
- Foam in the vent line will require cleaning or replacement of filters and can damage the vacuum pump.
- De-foaming agent is expensive and, if used inefficiently, can upset the process.
- Point Level Measurement technologies such as vibration and floats cannot detect foam.
- Technologies such as conductivity and ultrasonic gap switches are unreliable for foam detection.

The Solution:

- Drexelbrook RF Admittance switches quickly respond to any water based or conductive foam preventing batch loss and saving filters and vacuum pumps.
- Reduces cost by dispensing de-foaming agent only when foam reaches a fixed high-level point.
- Sensors are available in sanitary designs for a wide range of temperatures and pressure requirements
- Drexelbrook point level switches require no calibration, simply install them and power them up.
- Drexelbrook RF switches have no moving parts and require no maintenance.
- The Intellipoint™ RF Admittance switch Mean Time To Failure (MTTF) has been calculated to more than 110 years*.

RF Point Level Switch
Indicates Alarm When
Foam Reaches Sensor



*Intellipoint loop powered model as tested by Exida.com

Other Solutions:

- | | |
|-------------------------------------|--------------------------------|
| • Raw Material Storage Measurements | • Batch Reactors |
| • Packaging and Filling Hoppers | • Mixing, Blending, Separation |
| • Spill Prevention | • Centrifuge |

Typical Uses:

- | | | |
|----------------------------|-----------------------|-------------------------|
| • Continuous Level control | • Point Level control | • Waste removal |
| • Inventory management | • Overfill Protection | • Regulatory compliance |

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