

Steam barrier DS

Leakage monitor LW

Functionality DS

The leakage chamber is sterilized using steam. For this purpose, steam is applied through a connection on the housing, conducted through the internal assembly in a defined way, and conducted out through the hollow axis. For leakage monitoring during production, the valve V2 is closed and condensate forms in the system. The following steam must have a 0.5 bar higher pressure than the product.

In case of leakage, the condensate thus escapes to the product chamber and the following steam increases the temperature for TIS1. Through this temperature increase, the PLC detects the leakage.

Design Characteristics

- Housing with two integrated connections
- The one connection on the housing is sealed in a leakage-free manner using dummy stoppers by default
- The internal assembly has a hollow axis and a special valve cover with two lateral bore-holes
- Secured housing seals using the steam barrier

Installation

- The DS system is primarily designed for equipping new installations
- The pipe connections on the housing can be permanently fixed to the plant
- For the connection to the internal assembly, a flexible connection is required
- Suitable for upright installation
- In certain conditions may be installed in a reclined position
- Not suitable for inverted installation

Functionality LW

The leakage chamber is sterilized using steam. For this purpose, steam is applied through a connection on the intermediate flange and conducted away again through the second connection that is also on the intermediate flange. For leakage monitoring during production, the valve V2 is closed and condensate forms in the system. The following steam must have a 0.5 bar higher pressure than the product.

In case of leakage, the condensate thus escapes to the product chamber and the following steam increases the temperature for TIS1. Through this temperature increase, the PLC detects the leakage.

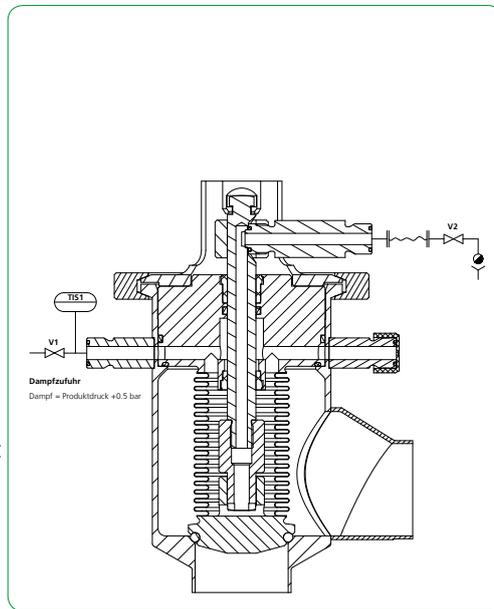
Design Characteristics

- Additional flange with two integrated connections
- Connection to the valve using an additional clamp
- The internal assembly has an extended valve axis
- Various monitoring media (e.g. glycerine) can be used

Installation

- The LW system is primarily designed for the retrofitting of existing installations
- The connections on the flange to a monitoring system are established with flexible lines
- Suitable for upright installation
- In certain conditions may be installed in a reclined position
- Not suitable for inverted installation

Steam barrier DS (application recommendation)



Leakage monitor LW (application recommendation)

