



Buffer tank for spent grain

Betrouwbaar

Betrouwbare meting, onafhankelijk van procesomstandigheden

Kostenbesparend

Optimale werking van de installatie

Praktisch

Eenvoudige montage en inbedrijfstelling

Malt is a key component in the production of beer. The malting process at the beginning of the production sequence has a major influence on the character of the resulting beer. After mashing, the malt and other ingredients together with the brewing water are filled from the mash container into the lauter tun and held there for several hours at process temperature. The hot liquid of the wort is then slowly strained through the malt cake and pumped into the wort container. The remaining malt or spent grain from the lauter tun is conveyed into a buffer tank and temporarily stored there. The lauter tun has to be emptied so that production can continue. The buffer tank is therefore a crucial point in the production process not only because it serves as an interim storage facility, but because from there the material is forwarded to the storage silos. Due to the high temperature of approx. 60° C and the high moisture content of the material, a vapour atmosphere of high humidity prevails in the container. This leads to heavy condensation and buildup on the installed measuring probe. From the buffer tank the spent grain is eventually passed on to the storage silos and stored until it is sold as protein-rich animal feed.

▫ VEGAFLEX 82

The solution

A VEGAFLEX 82 TDR sensor measures the level in the buffer tank reliably and ensures correct monitoring of alarm levels. Buildup and condensation have no effect on the measuring result. VEGAFLEX 82 continuously monitors the filling of the buffer tank. This not only saves time and money, but also ensures that the brewing process keeps running smoothly. To prevent idle running, conveyance of the spent grain is switched off when the level falls below 10%. When the tank is 70% full, an overflow warning is triggered. For the operators in the control room, that is a sure sign of a malfunction of the conveyor system. At that point, there is still enough time left to find and resolve the problem. The final authority in the buffer tank is the level switch VEGAVIB 62. It monitors the maximum limit level and switches off the filling process in sufficient time to prevent overflowing.

User benefits

- Reliable monitoring of tank levels
- Optimization of production process through reliable, accurate measurement
- Simple installation and setup
- Maintenance-free measurement



VEGAFLEX 82

Meetbereik - Afstand

75 m

Procestemperatuur

-40 ... 200 °C

Procesdruk

-1 ... 40 bar

Meetnauwkeurigheid

± 2 mm

Uitvoering

Basisversie voor de verwisselbare kabel ø 4, ø 6
PA gecoat.

Basisversie voor verwisselbare kabel ø 6, ø11 PA
gecoat., staaf ø16

Verwisselbare staaf ø 16 mm

Verwisselbare kabel ø 2 mm met ahanggewicht

Verwisselbare kabel ø 6 mm met ahanggewicht

Verwisselbare, PA-gecoate stalen kabel ø 6 mm
met ahanggewicht

Verwisselbare, PA-gecoate stalen kabel ø 11 mm
met ahanggewicht

Materialen, natte delen

316L

C-22

PA

Schroefdraadaansluiting

≥ G¾, ≥ ¾ NPT

Flensverbinding

≥ DN25, ≥ 1"

Afdichtingsmateriaal

EPDM

FKM

FFKM

Materiaal van de behuizing

Kunststof

Aluminium

Rvs (gegoten)

Rvs (elektrogepolijst)