

## Description

You select the desired beer sort (top or bottom fermented beer) via the process controller. You select the sort either for the following brew or you keep the current brew. This selection determines how many yeast cells per ml of wort will be added. You modify the number of cells in the parameter level; you access the parameter level by entering a code.

During the conveyance of wort, the setpoint value of yeast cells per ml wort, the current flow of wort (FQI 3) and the signal from the concentration metering system (QI 2) are used for a permanent calculation and control of the required flow for yeast (FQI 1).

The control is carried out by changing the speed of the yeast pump P1 by means of a frequency converter. Whenever the flow of wort is decreasing, the added quantity of yeast will be decreased, too. Whenever the concentration of yeast decreases, the speed of the yeast pump and thus the flow is automatically increased.

This will be displayed:

- flow of yeast in l/h
- yeast load in million cells/ml
- added quantity of yeast in l (brew)
- added quantity of yeast in l (total)
- yeast load in million cells
- setpoint value for yeast addition (million cells/ml wort)
- actual value for yeast addition (million cells/ml wort)
- flow of wort (l/h)
- output signal to the frequency converter (%)

During the cleaning process the pump runs with a high speed. The bypass valve to the pump is clocked.

## Scheme

