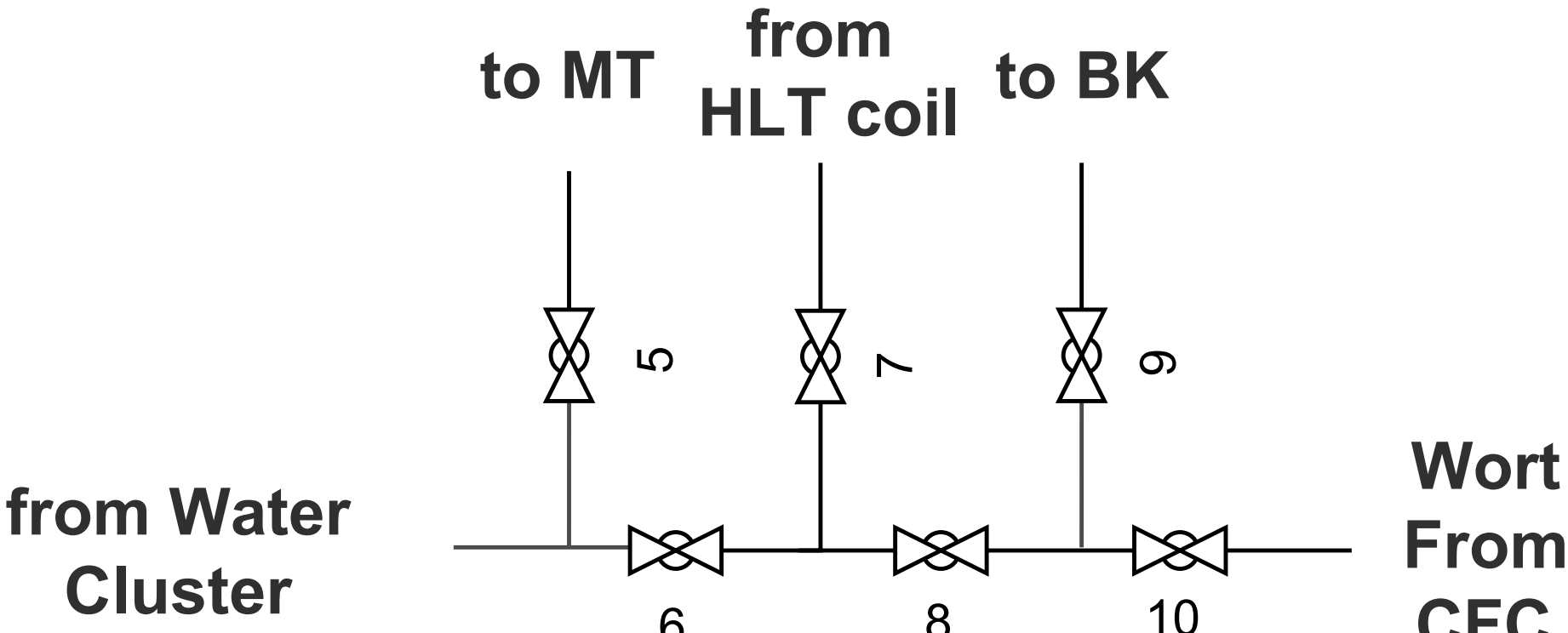
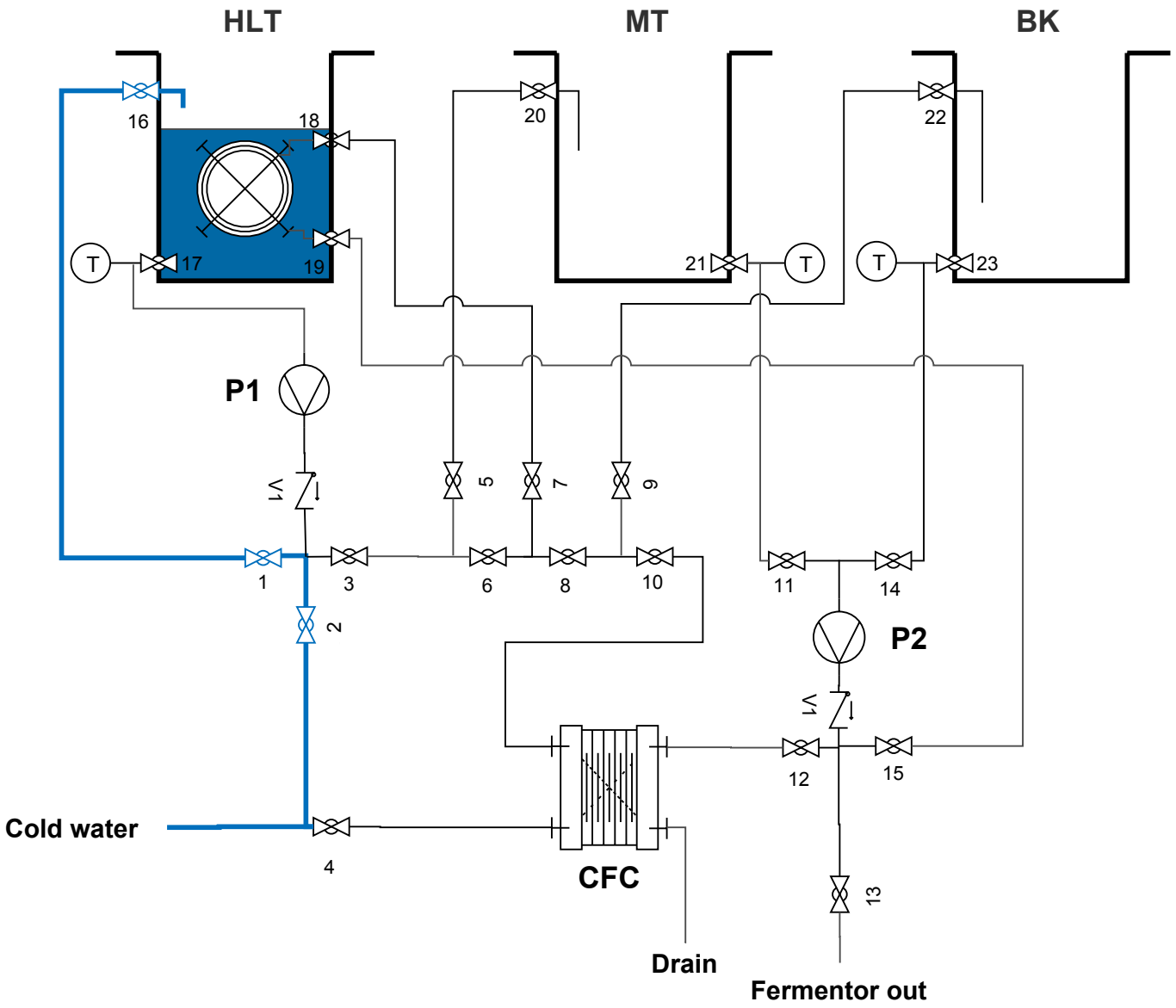
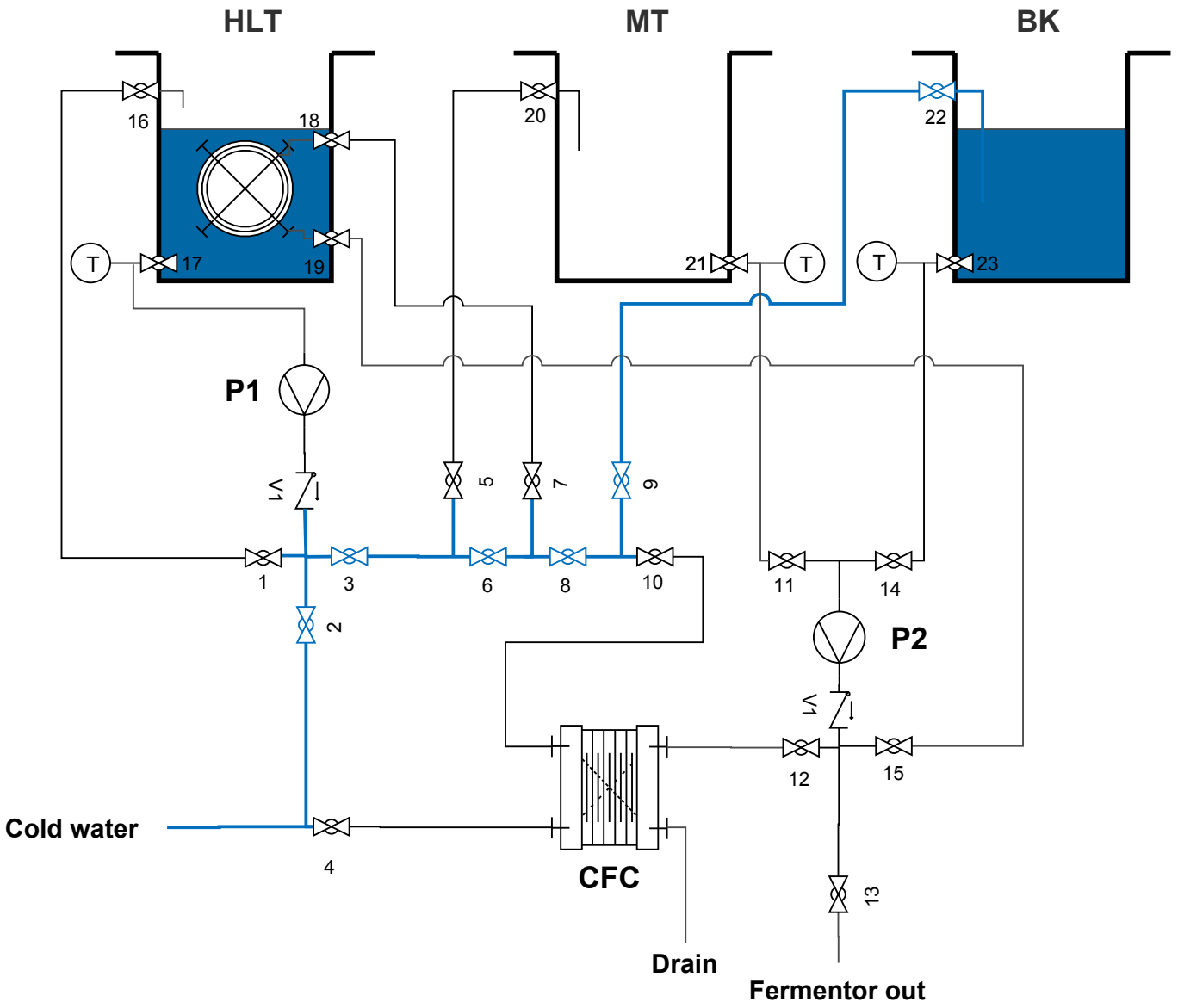

to MT
from HLT coil
to BK
5
7
9
from Water Cluster
6
8
10
Wort From CFC



Fill HLT with cold water

From the cold water input, the water can flow to the HLT, MT, BK and the CFC. This is driven by the tap pressure.
To fill the HLT, open valves 1, 2 and 16.

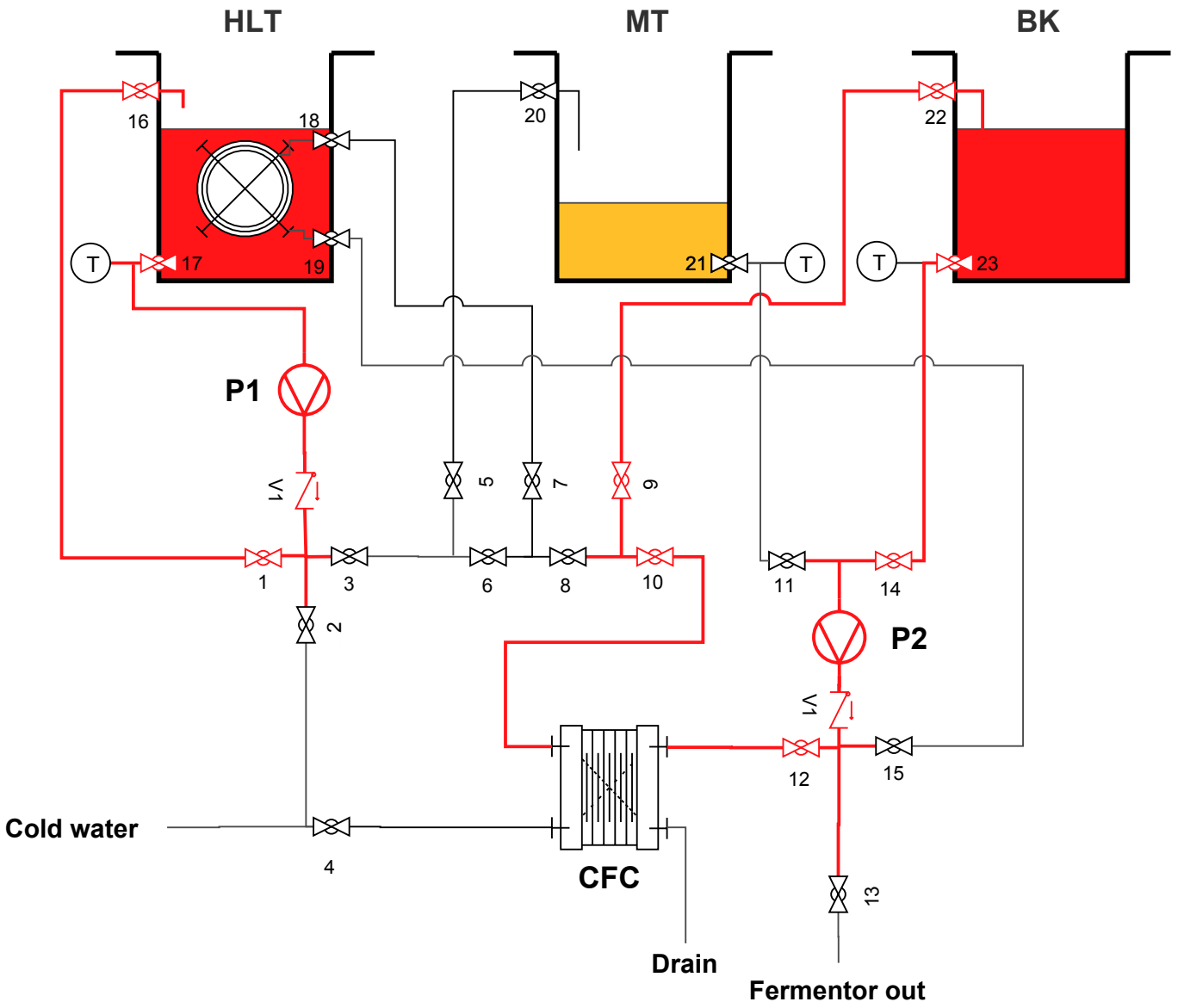
manual ball valve one-way valve



Fill BK with cold water

The BK is filled with water after the HLT is full. This water is used for mash in. By using the water from the BK, we can measure the mash volume in the BK before mashing and the HLT stays full. System opens 2, 3, 6, 7, 9 and 22.

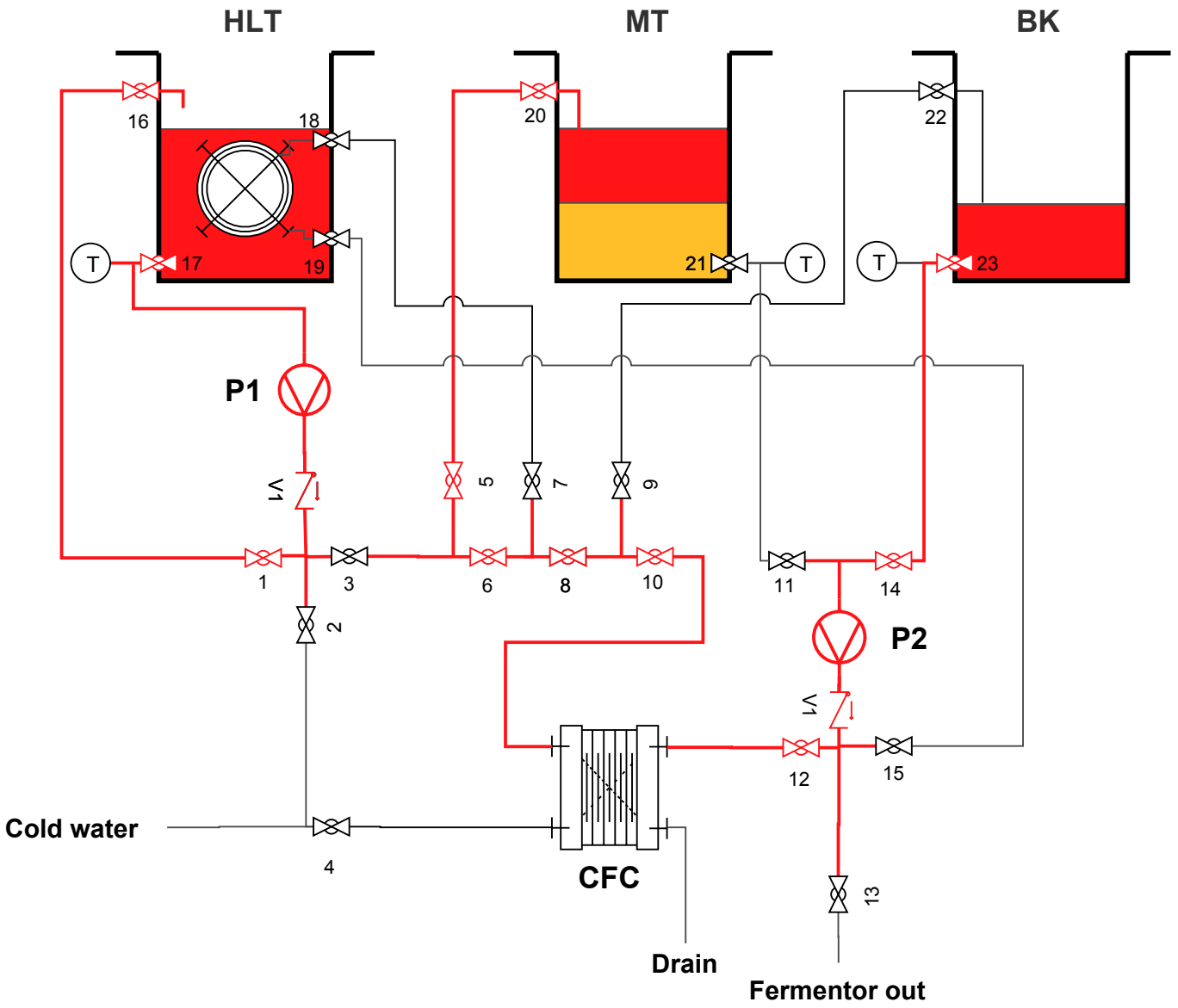
manual ball valve one-way valve



Heat HLT and BK

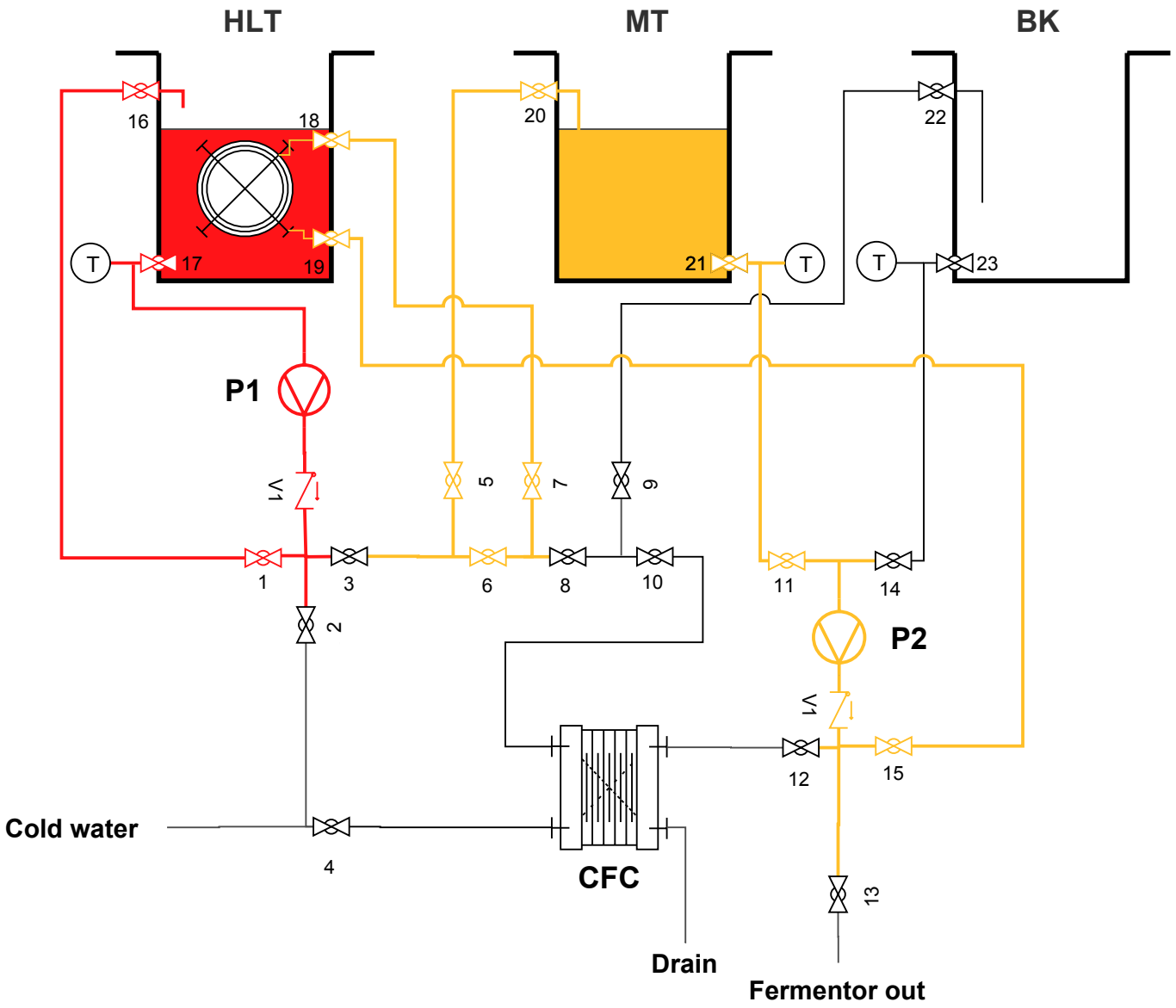
The HLT is heated to the first mash temperature, the BK is warmer to account for temperature losses later when grain is added. The BK and HLT are circulated while heating. In the meantime, grain is added to the MT. Valves 1, 16, 17 and 9, 10 12, 14, 22 and 23 are open.
Pump P1 and P2 are running.

manual ball valve one-way valve



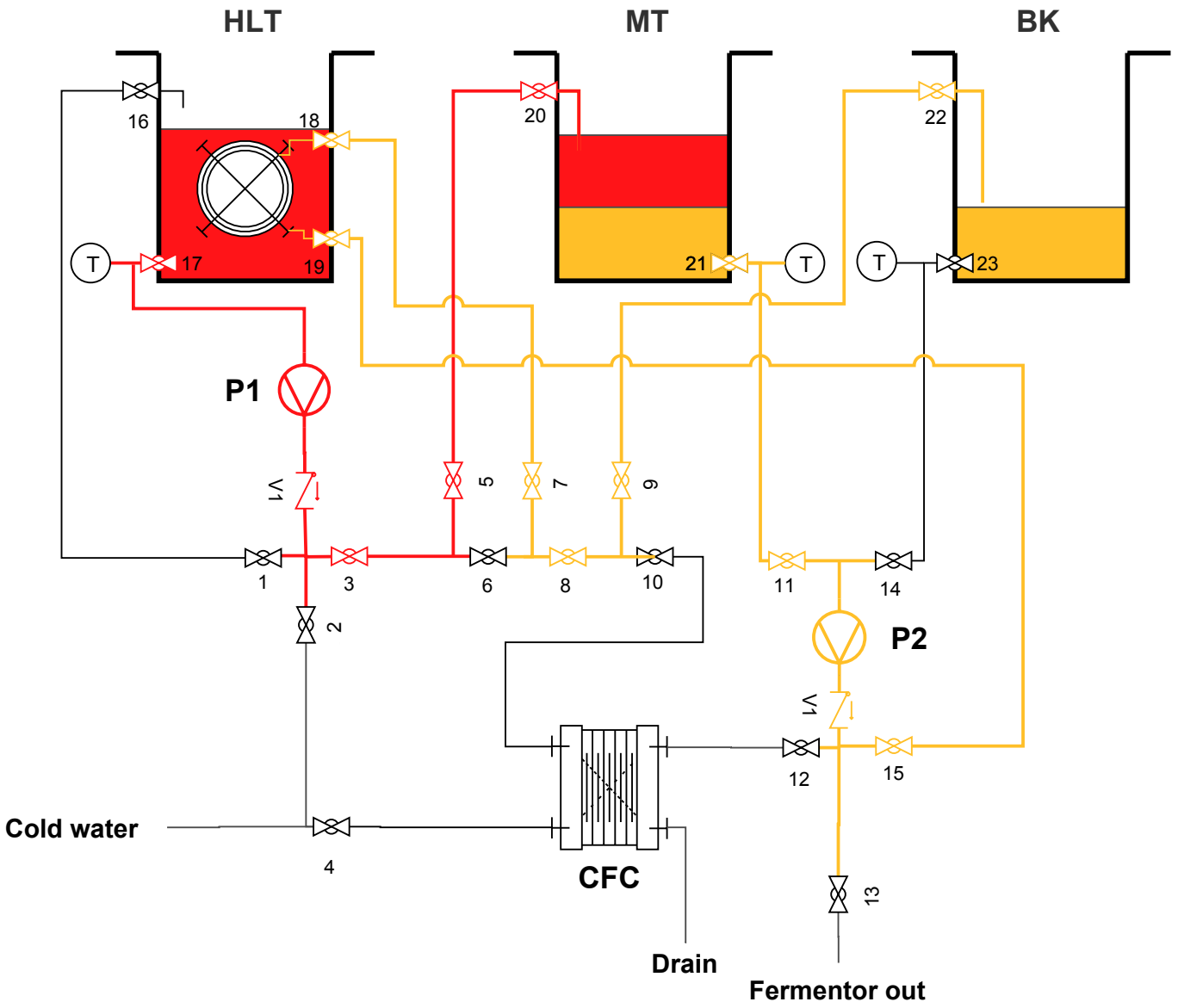
Mash in
Hot water from the BK is pumped onto the malt in the MT.
Valves 1, 16 and 17 as well as 23, 14, 12, 10, 8 ,6, 5 and 20 are open.
Pump P1 and P2 are running.

manual ball valve one-way valve



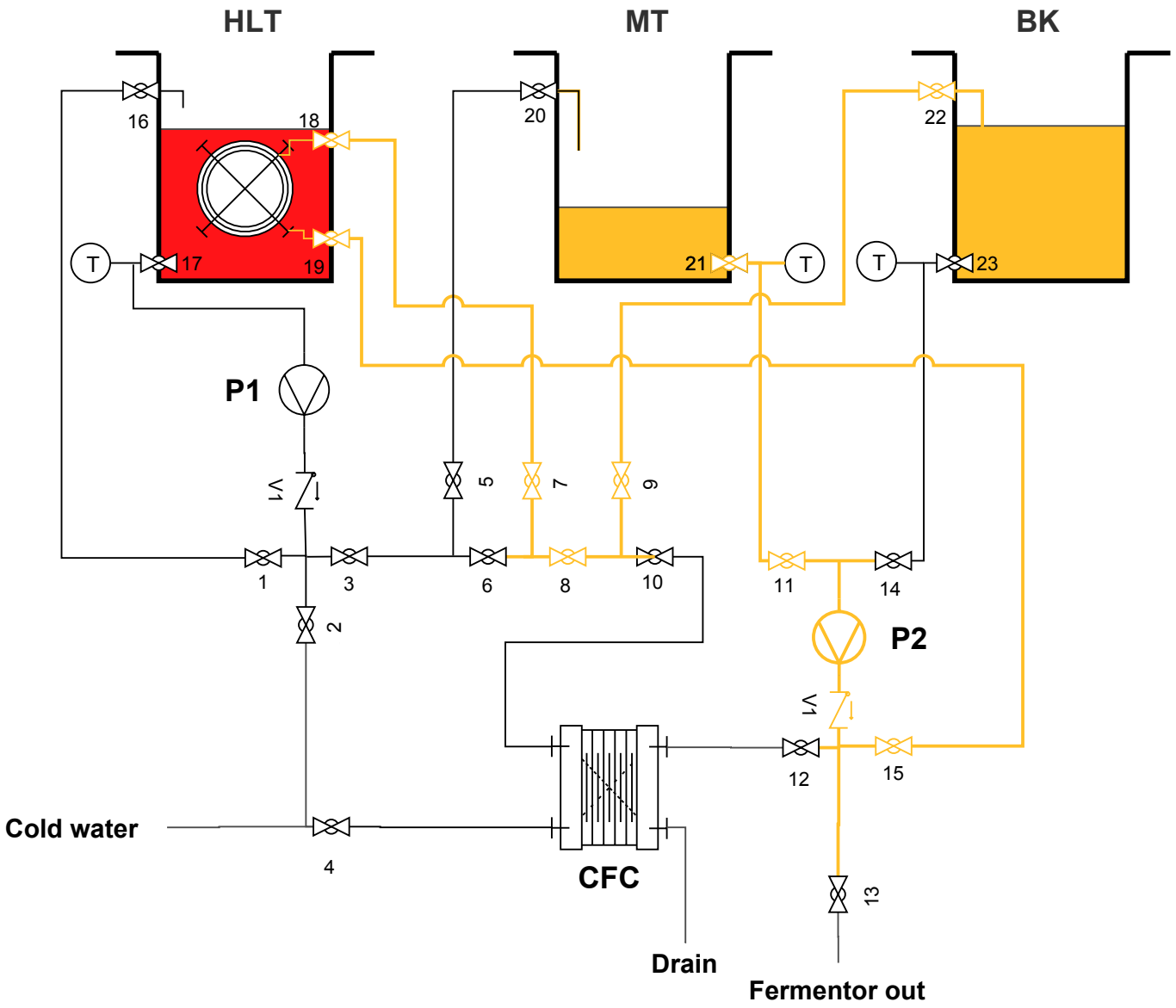
Mash
The mash is cirulated by pump P2, through the coill in the HLT. The mash temperature is controled via the HLT temerature.
Valves 1, 16 and 17 as well as 21, 11, 15, 19, 18, 7, 6, 5 and 20 are open.
Pump P1 and P2 are running.

manual ball valve one-way valve



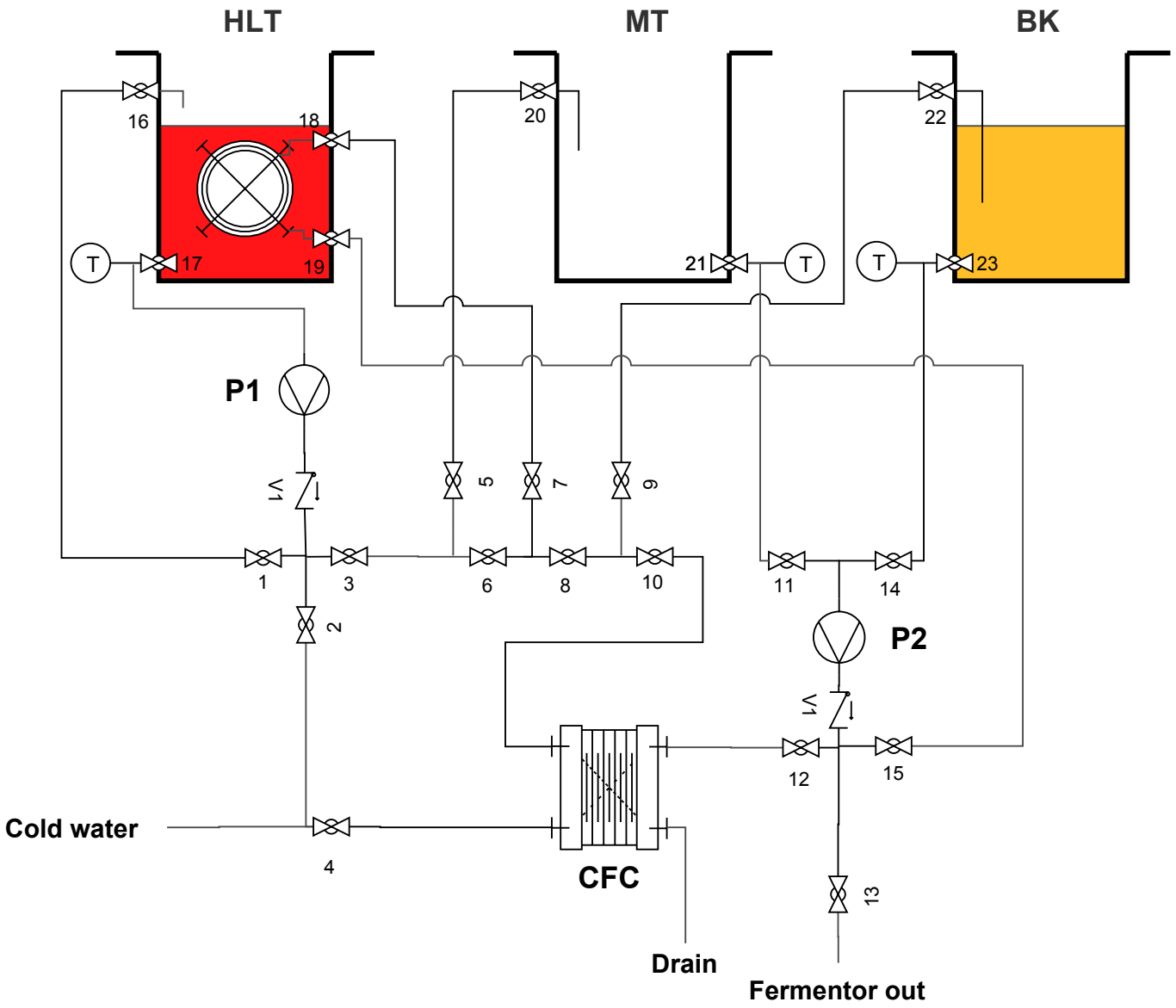
Sparge
After mashing the wort is pumped to the BK. Water from the HLT is pumped to the MT for sparging.
Valves 3, 5, 17 and 20 as well as 7, 8, 9, 11, 15, 18, 19, 21 and 22 are open.
Pump 1 and Pump 2 are running.

manual ball valve one-way valve



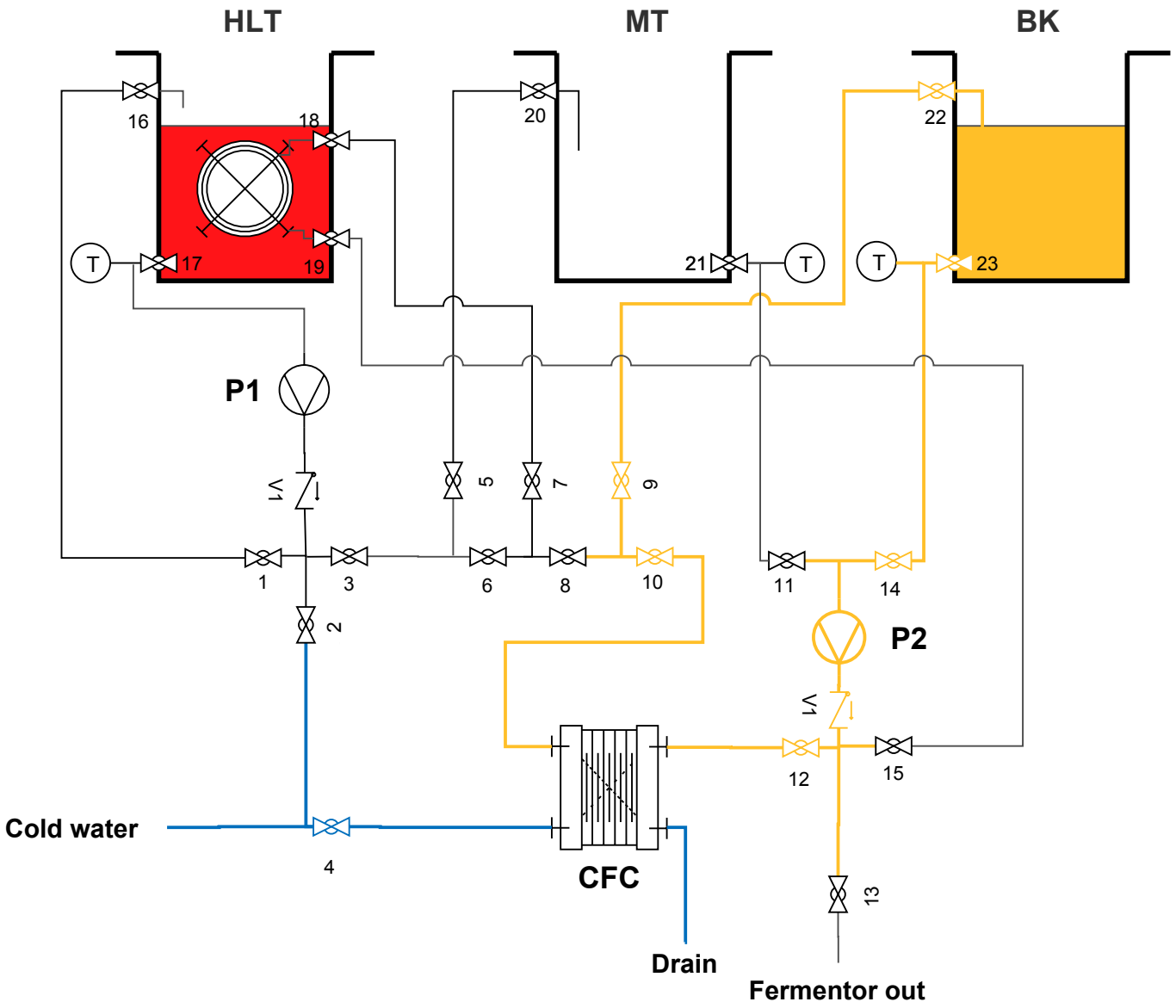
Sparge out
Water flow from HLT is stopped. Valves 3, 5, 17 and 20 are closed.

manual ball valve one-way valve



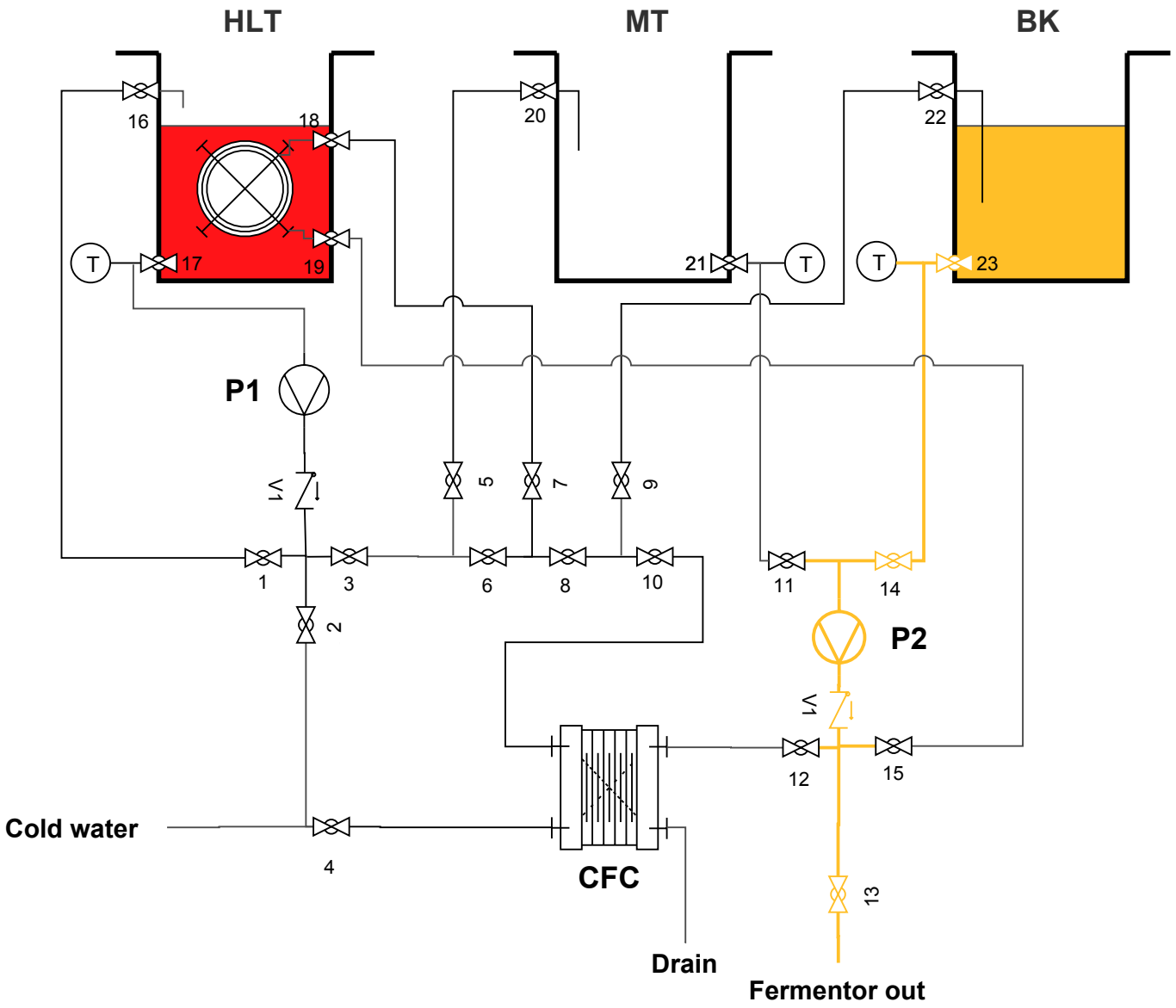
Boiling
During boiling all valves are closed and the pumps are not running.

manual ball valve one-way valve



Cooling
After boiling the wort is circulated through the CFC until pitch temperature is reached. Cold water is ran through the CFC to the drain.
Valves 9,10, 11, 12, 14, 22 and 23 as well as 4 are open.

manual ball valve one-way valve



Fermentor out
After cooling the wort is collected in a fermentor.
Valves 13, 14 and 23 are open.
Pump P2 is running.

manual ball valve one-way valve