

# Handtmann process technology

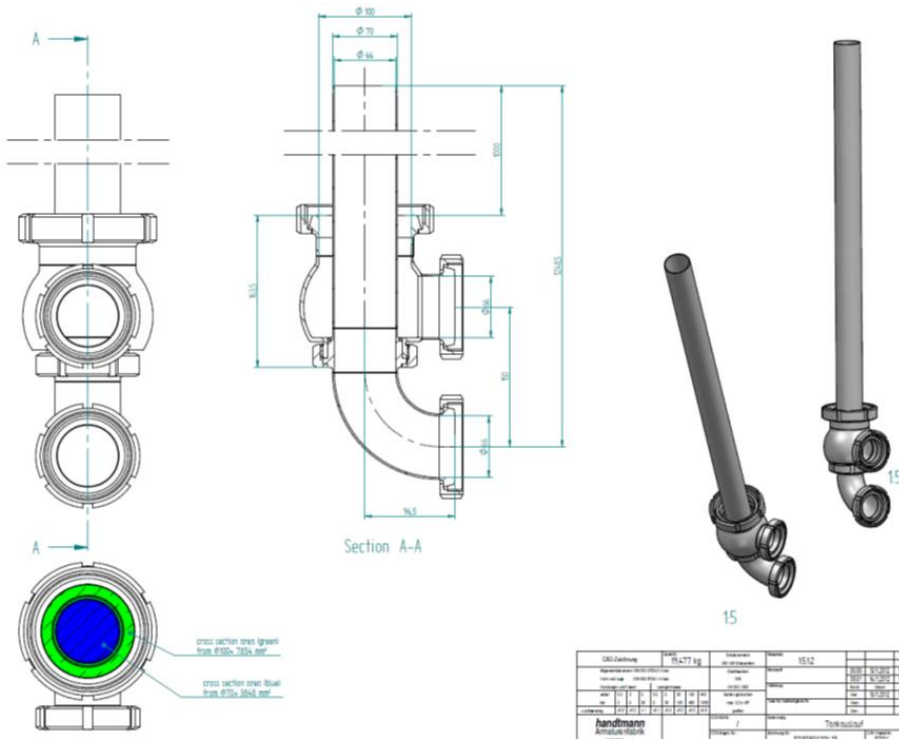
DOUBLE TANK OUTLET



# Double Tank Outlet – Benefits

## Your Benefits compared to racking arm

- No oxygen pick up
- No dead leg
- Easy to clean



# Double Tank Outlet – Benefits

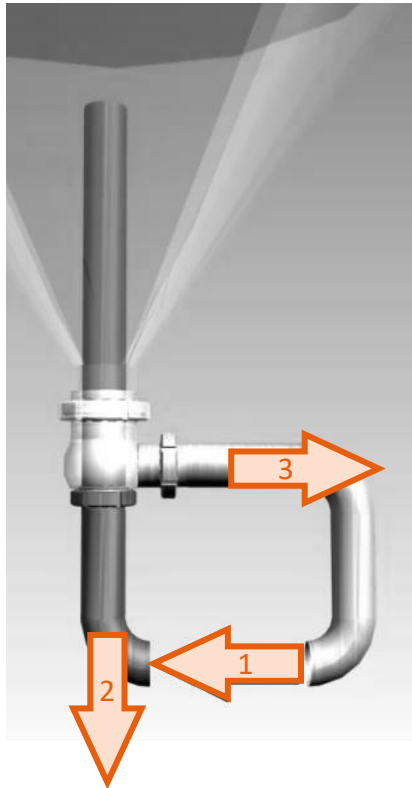


**Handtmann Double Tank Outlet**  
for separation of beer from yeast/hops  
and for circulation within same tank

## Your Benefits

- Hygienic ball housing
- Variable lengths of standpipe
- To separate clear beer from yeast and hops
- Recirculation from the bottom outlet into same tank thru the stand-pipe
- Backwash cleaning of the standpipe is considered

# Double Tank Outlet – Basic process



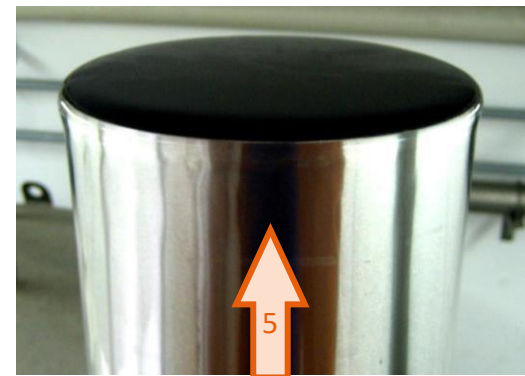
## Basic process:

1. Recirculation into same tank
2. Outlet of clear beer
3. Outlet of yeast/hop slurry

## CIP process:

Backwash cleaning of the standpipe with various flowrates:

4. High flowrate to clean the inside of standpipe
5. Low flowrate to ensure proper cleaning of the outer edge of the standpipe



# Homogenization Unit – Benefits



**The Handtmann Homogenization Unit allows gentle mixing and homogenization of the tank content – for dry hopped beers and other applications.**

## **Your Benefits:**

- Recirculation from the bottom outlet back thru the standpipe
- Standpipe with jet nozzle for great homogenization
- Allows drainage of slurry prior to circulation
- Integration into main pipe fence with automated butterfly valve for beer in & out and harvest yeast
- Push-out of slurry to drain based on time for minimized losses

## **Options:**

- Fully automated push-out of slurry to drain based on turbidity