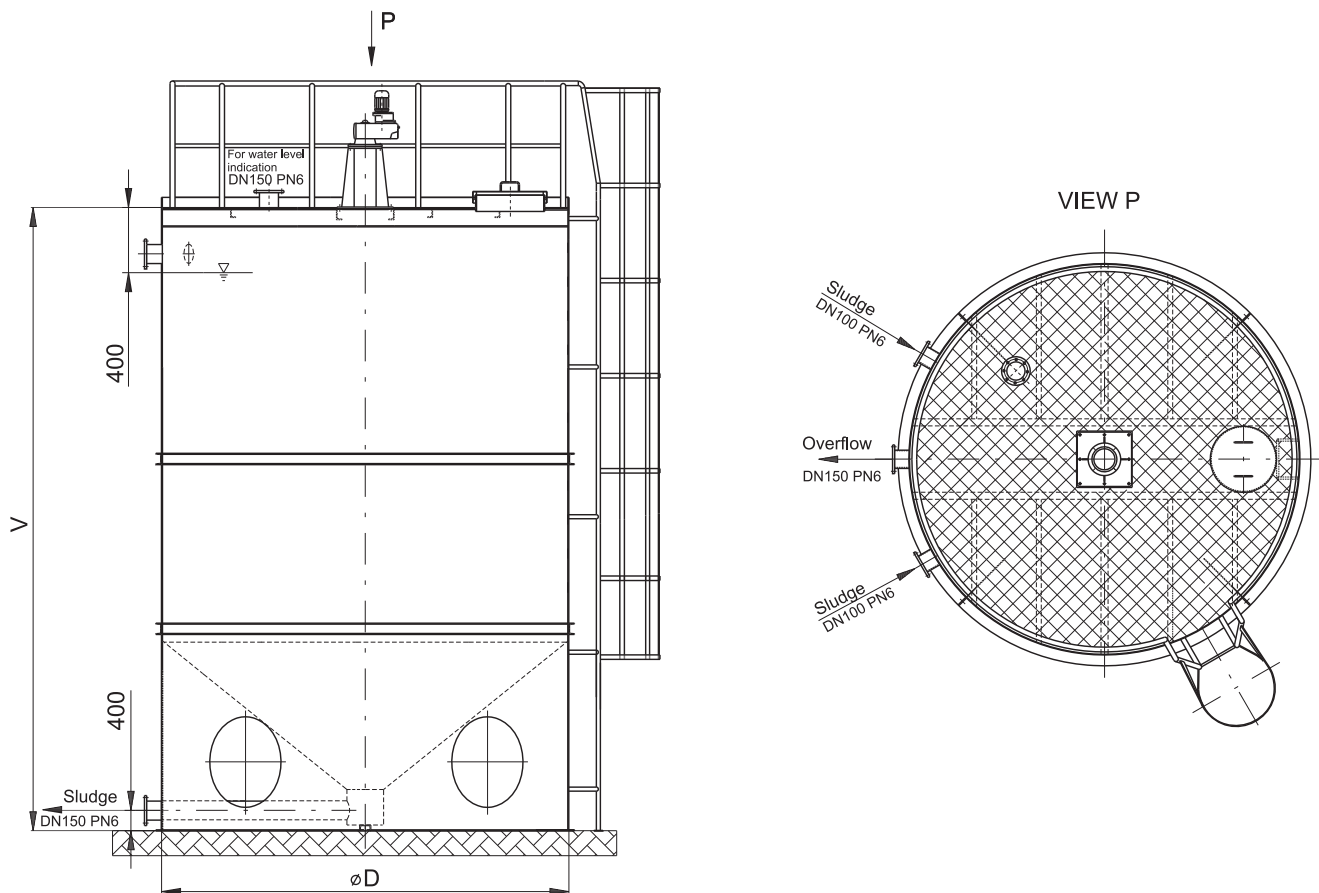


# The steel homogenization tank

## KUNST HNO-10-K through HNO-50-K



**TABLE OF MAIN DIMENSIONS:**

Parameter	Designation		Size and designations of the homogenization tank HNO				
			HNO-10-K	HNO-20-K	HNO-30-K	HNO-40-K	HNO-50-K
Effective volume	$V_{HNO}$	m <sup>3</sup>	10	20	30	40	50
Tank diameter	D	mm	2100	2600	3000	3250	3500
Tank height	H	mm	4550	5350	6050	6550	7050
Tare weight of the tank	c.	kg	1800	3000	4300	5800	7200

**REMARK:**

The position, internal and external diameter of nozzles can be customized.

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# The steel homogenization tank

## KUNST HNO-10-K through HNO-50-K

### APPLICATION

Homogenization tanks are used to store and homogenize liquid sludge from waste water treatment plants. The tanks count among the technological plant components.

### DESCRIPTION

The homogenization tank is an upright, cylindrical steel tank at zero pressure. The conical bottom has an outlet connection. The tank is self-supporting. In order to anchor the tank on a concrete base, the tank is equipped with a steel ring. The tank cover is walkable. The entire cover is equipped with a handrail which is interrupted only where the access ladder is located. The cover has a flange (DN150) to attach a level indicator. The level indicator is not part of the delivery. At the inner ladder, the cover is equipped with a control inspection manhole, which also serves for ventilation purposes of the tank. The tank is equipped with brake surfaces which prevent rotation of the liquid sludge due to operation of the mixer. The mixer drive is located in the center of the cover and drives a double-stage double blade impeller. The agitator prevents sedimentation of sludge flocs and holds the suspension at a homogeneous state. The Mixer can be equipped with a revolution control. At the maximum liquid level the tank is equipped with two feed trough and one overflow trough. If the tank is located in an unheated property, heat insulation can be attached including length compensation of the connection tubes.

### MATERIAL DESIGN

Homogenization tanks can be offered in two different material options:

- All-steel construction made of class 11 construction steel having a protective coating.
- The tank is made of class 11 construction steel having a protective coating. The parts of the mixer unit which are in direct contact with sludge, the handrail, and ladder are made of stainless steel which corresponds to class 1.4301.

The kind and extensiveness of the protection coating is adapted to the customer's needs.

### OPERATION AND MAINTENANCE

The operation of the facility does not require constant care. The maintenance needs to be done in accordance with the instructions.

### DELIVERY FORM

With respect to circumstances and cost-effectiveness of transport, small tanks are delivered as the whole tank. Large tanks are delivered in pieces suitable for transportation. The installation of the mixer will be done at the final place of the tank. The position and diameters of the nozzles is chosen individually, depending on the technical feasibility.

The supplier reserves in compliance with the parameters of the equipment, the right for a change of deliveries contrary graphical illustrations.

### DELIVERY DATE

According to contract

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