

## Description:

Appliance for installation in attenuation tanks. The 3P Retention Regulator takes care of the regular drainage. The amount of regulation is adjustable (5 steps). Due to the flexible arm and brushes which are mounted on the retention we can guarantee that the opening of the regulator cannot be contaminated and is therefore low-maintenance.

As opposed to a conventional static flow regulator, the drain from the 3P retention regulator adapts to the current water level in the retention element, such that the maximum permissible drainage is already reached at the beginning of tank filling. In conventional regulation elements the largest permissible drain output is usually reached only upon the highest stowage of the retention element; in

case of lower stowage heights the regulating performance is correspondingly reduced. Therefore the required retention volume can be reduced by approx 30 % when using the 3P retention regulator.

The 3P retention regulator also has the advantage over a static regulator that no blockage or deposit settlement can occur. The sickle-type aperture in front of the opening is moved depending on the water level, so that any possible existing contamination can be permanently removed by means of a pair of brushes. This ensures that the decentralised retention on private land is guaranteed on a long-term basis without maintenance effort.



## Technical Data:

Blue retention corpus: DN 100  
Material: Polyethylene

Material sickle-type blind:  
Stainless steel of different composition

Material floating ball: Polyethylene

Material brushes: PVC and Polyethylene

Weight: 2,3 kg

Flow rate in litre per second:

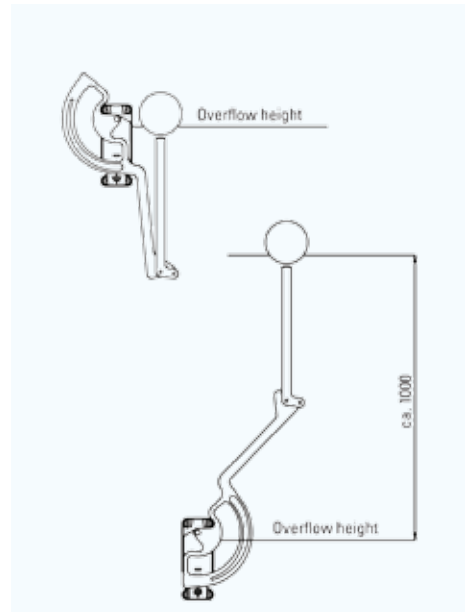
Blind	A	B	C	D	E
Q l/sec	0,60	0,50	0,40	0,30	0,20

## How it works:

The blind mounted on the regulator can be set in 5 different positions (see scale of technical data).

In front of this blind another sickle-type aperture is situated. This second blind is being moved through a floating ball depending on the water level. Due to this the sickle-type opening narrows or dilates.

Thus having a constant amount of water independent from the water level. A pair of brushes situated in front of the baffle is cleaning the corrugated opening with every move. Thus no aerosols can be accumulated at the opening.



## Example:

Installation of the 3P Retention Regulator in a concrete tank. Very important is the 3P Attenuation and Infiltration Filter pre-installed. The volume of the retention results from the size of the property and the required amount which has to be regulated.

## Text for invitation of tenders::

Pos.	Quantity	Article	Price in €
1.1	_____	3P Retention Regulator Housing and floating ball made of PE, self-cleaning mechanics made of stainless steel, adjustable blind for constant drainage of 0,2 l/s to 0,6 l/s Connection outlet: DN 100, Connection emergency overflow: DN 100	_____



## Observations:

The 3P Retention Regulator was tested in 2002 by the Institute of Sanitary Engineering, Water Quality and Waste Control of the University of Stuttgart under the direction of Prof. Dr.-Ing. U. Rott.

## Packing unit

**3P Retention Regulator:**  
Covering box 790 x 575 x 700mm: 3 pieces  
Pallet: 18 pieces



### Description:

3P Flow Regulator for attenuation tanks.

Designed as a floating extraction element with floating ball and filter basket. The regulation element is situated between the filter basket and the hose nozzle.

Adjustment of the regulated quantity takes place at the regulation element.



### Technical Data:

Floating ball: Ø 14 cm  
Material: Polyethylene

Suction hose: 1,5 m

Material connection parts: Brass

Material hose clamps: stainless steel

Weight: 1,3 kg

Flow rate in litre per second:

Q l/sec    0,05 | 0,10 | 0,15 | 0,25  
            0,27 | 0,30 | 0,40 | 0,50

### How it works:

Connection is installed in the height of the outflow. The flow regulator is situated between filter basket and brass nozzle. It consists of graded steps which are cross-cutted according to the required quantity.

Regulated quantity see technical data.

### Example:

3P Flow Regulator installed at the emergency overflow DN 100. 3P Attenuation and Infiltration Filter installed.

### Text for invitation of tenders:

Pos.	Quantity	Article	Price in €
1.1	_____	3P Flow Regulator Floating ball with aerator, aperture mount and hose connection made of thermoplastic resin, aperture for even flow of ____ l/s, With 1,5 m connector hose	_____



**Packing unit**  
3P Flow Regulator:  
Covering box 790 x 575 x 700mm: 12 pieces  
Pallet: 72 pieces