
QILTON

TIPPING BUCKETS



OTHER EQUIPMENT

Tipping buckets are the most widely used means for **cleaning storm tanks** once these have emptied after serving their purpose. They are longitudinal features mounted on supports attached to side or back walls or to the ceiling, which are fed with cleaning water either manually or automatically.

The tilting method for cleaning storm tanks has been in use for many years. The basic concept of this type of cleaning combines simplicity and low energy costs. These devices can be fitted to both new and existing storm tanks, which makes them the ideal choice for removing the solids decanted following episodes of heavy rainfall and storms.

FEATURES AND STRUCTURE

Once a storm tank has emptied, sedimentation accumulates on the bottom, requiring its cleaning.

Tipping buckets do away with the need for any manual or mechanical cleaning system for storm tanks, while at the same time reducing maintenance problems and improving safety.

QUILTON tipping buckets have the following specifications:

- ✓ Effective and comprehensive cleaning of storm tanks.
- ✓ Lasting construction (stainless steel).
- ✓ Zero maintenance and long service life.
- ✓ Energy saving and very economical to operate.
- ✓ No structural vibration.
- ✓ Silent and efficient performance.

Design and structure:

The shape of a QUILTON **tipping bucket caters** for the following:

- ✓ Flushing the water stored in a single action (expressed in L/m of tipping length) to clean and remove the solids decanted in the storm tanks.
- ✓ Automatically returning smoothly to its initial position, avoiding sudden movements and vibrations.

Accessories:

The tipping bucket also has a series of accessories that help to maximise its performance:

- ✓ **Levelling devices** that alter the filling capacity depending on the cleaning length and the amount of dirt in the installation.
- ✓ **Lateral supports** for adjusting the equipment's levelling.
- ✓ **Self-lubricating bearings** to avoid the equipment's annual maintenance.

OPERATION

The process begins when water flows into the tipping buckets. When they are full, they automatically tip causing water to cascade onto the bottom of the storm tank, producing a wave that flushes the accumulated sediment to the outlet provided for its removal or pumping.

An automatic control sets the cleaning rate; whenever necessary, the tipping buckets can operate several times in a row in order to ensure the tank is completely clean.

The correct operation requires the storm tank to fulfil certain key conditions:

- ✓ In the area where the **water is flushed**.
- ✓ In the **slope** of the ground.
- ✓ In the **effectiveness of the cleaning length**.

ADVANTAGES OF TIPPING BUCKETS

- ✓ Effective and comprehensive cleaning of storm tanks. No mechanical elements required for the process.
- ✓ Robust construction in stainless steel.
- ✓ The simple design of QUILTON tipping buckets means they have a long, maintenance-free service life.
- ✓ No energy costs.
- ✓ No structural vibrations.
- ✓ Silent and efficient operation.



BILBAO

Head-office

Amezti 6
48991 Getxo - Spain

+34 944 910 166
quilton@quilton.com

BARCELONA

National delegation

Passeig Sant Joan 172
08037 Barcelona - Spain

+34 934 570 605
quilton.barcelona@quilton.com

ÁLAVA

Production plant

Pol. Ind. Goiain, Zabaldea 8
01170 Legutiano - Spain

+34 944 910 166
quilton@quilton.com

