



## MIXING INSTALLATION

# Turnkey solution for a mixing installation

Van Dam Bodegraven B.V. has been producing liquid cleaning products since 1932. To increase capacity, the company asked RIJKERS Process Technology to produce a new mixing installation. This mixing installation, which was the seventh production line, was delivered as a turnkey solution, including software. Our extensive knowledge for the mixing of powders and liquids came in handy.

Over the years, Van Dam Bodegraven has become a leading manufacturer of cleaning products for both the private and the professional market. The company has its own product lines, but also produces products for European retail chains and brand manufacturers.

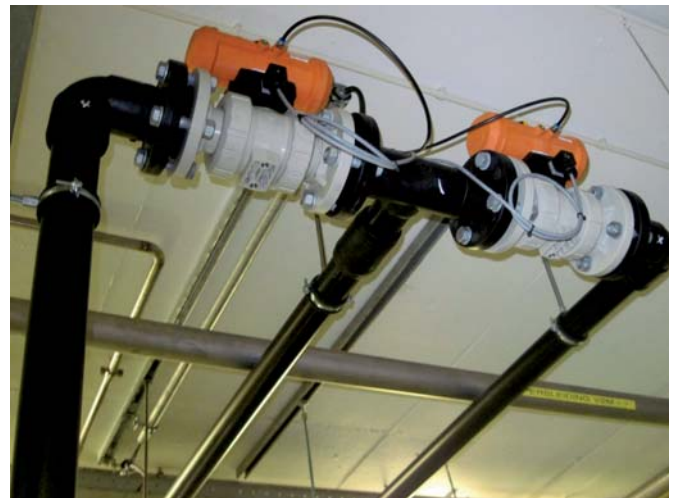
The collaboration between Van Dam Bodegraven and RIJKERS has existed for approximately 25 years. Their technical manager has asked us to supply tanks, silos and other components for many years. Over the years, the company has changed, along with their requirements, and we now supply mostly turnkey solutions instead of simple components. RIJKERS developed and manufactured the mixing plant for the seventh production line. This expansion means Van Dam Bodegraven now has an even more flexible way of producing chlorine products.



## Reliable solution

### Optimisation and innovation

For the Bodegraven factory, RIJKERS developed a complete mixing installation for chlorinated detergents, which was intended for the seventh production line. This line is based on the existing production line, but has been enhanced with valuable optimisations. One of the priorities was a well-thought out choice of materials, for example: for the agitator, the tank and other components. The most modern technologies were used for the automation. RIJKERS has since expanded and optimised the installation over the years.



### From engineering to installation

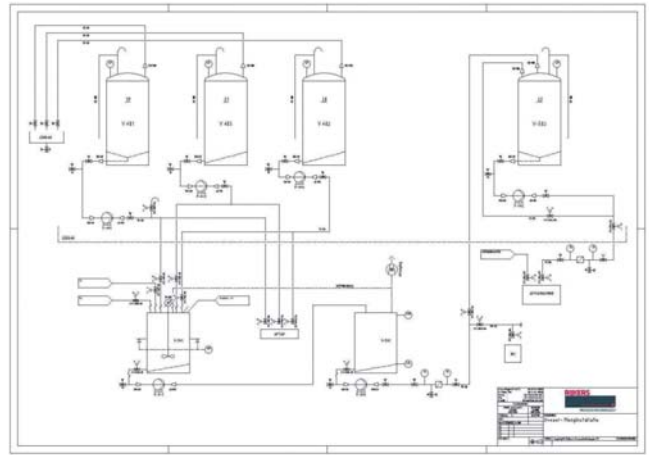
RIJKERS took care of the project from beginning to end: from engineering and procurement to the electrical and mechanical commissioning. We also took care of the delivery of the PE pipework, valves, electrical controls and the complete cable installation. Much thought was given to sufficient extraction of the chlorine fumes. The result: an advanced mixing system that leaves nothing to chance concerning safety and continuity.

### Economic responsibility

Continuity is very important to Van Dam Bodegraven. The production line should run continuously and without problems; every minute of downtime costs money. Therefore, RIJKERS invested heavily in reliability. This strategy has proven successful because the system ran from the first day without problems. Moreover, it has also been shown that this does not necessarily have to lead to high costs. With an economically viable solution that was within the budget, we have shown that cost awareness and continuity go hand in hand.

## The facts

- Mixing installation for cleaning products
- Commissioned by: Van Dam Bodegraven B.V.
- Engineering, procurement, production and commissioning
- Including supply of control panels, cabling and software
- With a mixing tank and a buffer tank
- PE pipework included
- Excellent extraction of chlorine fumes
- Delivery of a turnkey project



## The installation

The realisation of this new mixing installation increases Van Dam Bodegraven's productivity and the company can now offer to produce new compounds that contain chlorine. The different components are mixed in the mixing tank, after which the product is pumped into the buffer tank and then onwards to the filling machines. This process produces a wide range of the most diverse liquid cleaning products.

## Thoughtful preparation

In order to make the production of chlorine containing cleaning products possible, RIJKERS delivered and installed an additional mixing tank and buffer tank. The mixing tank is equipped with a weighing system, which makes precise product metering possible. Both the mixing tank and the buffer tank are made from polyethylene. Both have a capacity of 2.7m<sup>3</sup>. After the mixing process, the substance moves to the buffer tank for storage. With the new installation, Van Dam Bodegraven is able to deliver flexible formulas at your request and to further optimise the production process.

# RIJKERS

It's all about details.

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