

## Construction of a new culvert, Kleuterbach, Germany

### The Project:

Replacement construction of the Kleuterbach culvert

### Executing companies:

Johann Bunte GmbH&Co. KG  
Bad Bentheim branch

### The problem:

At km 42.431 N the Dortmund-Ems Canal passes over the upper Kleuterbach culvert. The planned channel widening of the Lüdinghausen–Senden section requires that the existing culvert be replaced. This will be built using the immersed-tube-method throughout its length. Submersible pumps will be necessary for floating the steel pipe culverts into place and sinking them.

### The solution:

Pumps of types KTZ47.5 and KRS2-69 were used to control the flooding of the steel pipes and to sink them accurately.



**Specifications KRS:** <https://www.tsurumi.eu/en-FI/krs>

**Specifications KTZ:** <https://www.tsurumi.eu/en-FI/ktz>

In the event of abrasive and corrosive utilization, stronger wear and tear will take place naturally in certain components. With regards to the above application wear and tear can take place mainly in impeller, agitator, suction plate, shaft sleeve, oil ring, mechanical seal, pump casing, strainer, motor casing and discharge coupling. Depending on the working conditions the lifetime of those parts might vary significantly and can be shorter than the legal warranty period.

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