

# REVOLUTIONARY MATERIALS

## RESULT IN LONG-LASTING STATORS

### CHALLENGE

Stators made from a material that significantly extends service life compared to conventional materials, even when pumping highly abrasive liquids.

### SOLUTION

Use stators made from „Alldur®“.

### RESULTS

The elastomer's new chemical composition and special production methods increase service life of the stator (and therefore of the entire pump) by up to 500 percent.

### REVOLUTIONARY MATERIALS RESULT IN LONG LASTING STATORS

CIRCOR offers stators made of “Alldur®” in progressing cavity pumps manufactured by Allweiler® in Bottrop, Germany. These pumps have been used for decades in a variety of applications, including many sewage plants in Germany and other countries.



Feed pumps of the AE series for the filter beds



The pump moves 5 to 10 m³/h of abrasive thick sludge with 6% dry substance at a pressure of 8 to 12 bar.

They are characterized by their ability to easily pump liquids with a large proportion of dry substance and abrasive components. A variety of available designs and materials enable adaptation of the pumps to specific liquids and pumping conditions. Now, with stators made of “Alldur®”, they are even more economical.

This new material reflects decades of experience and is designed specifically for pumping abrasive wastewater in sewage plants.

The composition of “Alldur®” is adapted to provide maximum resistance to mechanical influences. The elastomer's new chemical composition and production methods increase service life of the stator (and therefore of the entire pump) by up to five times.

The large Cologne-Stammheim sewage plant uses Allweiler® pumps of the type “AE4H750” for pumping thick sludge, among other uses. The new stator material has been undergoing long-term durability tests since December of 2012. Two identical pumps – one with a standard stator and



