

# Advantages



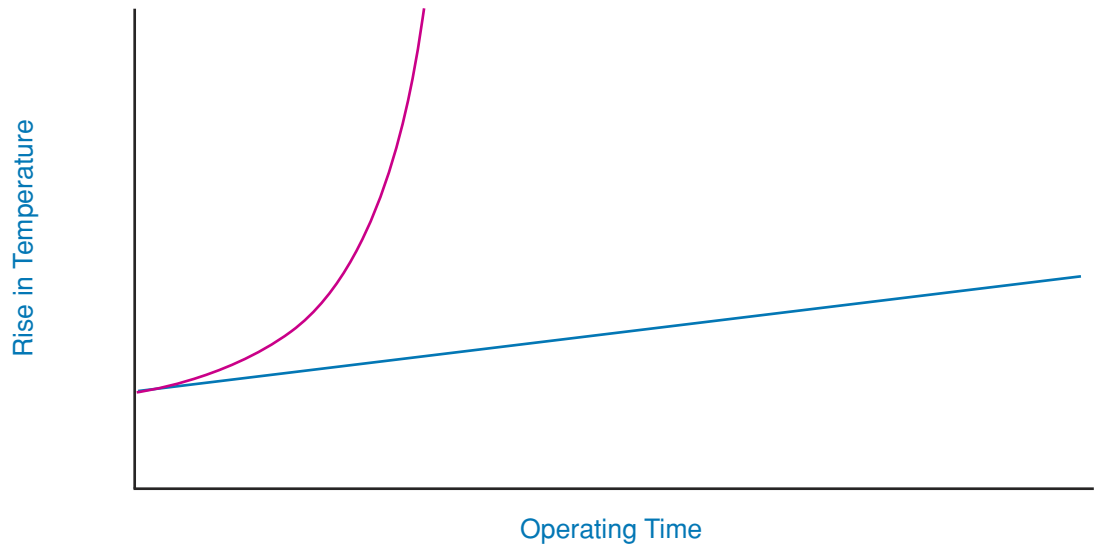
# VOGELSANG

Sludge Pump  
Division

## Increase in internal temperature of wet-end due to friction.

● Rotary Lobe Pump

● Progressing  
Cavity Pump



### Tech Tip

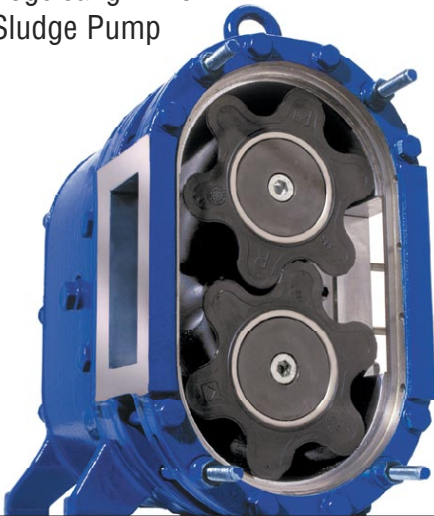
### Advantages of Vogelsang Rotary Lobe Pumps

Like progressing cavity pumps, rotary lobe pumps belong to the pump type known as positive displacement pumps. Due to its compact design, a rotary lobe pump can be advantageously used even for high discharge rates. In the following the special benefits of rotary pumps are described in comparison to progressing cavity pumps.

#### Less Friction

Unlike the PC pump, a rotary lobe pump is working with clearances between the rotors and the pump housing. The rotors only slightly touch the housing. Therefore the rotary lobe pump needs only a minimum of liquid inside the pump to keep the temperature from increasing at idle operating conditions.

Vogelsang HiFlo®  
Sludge Pump



The chart is showing the temperature rise in a PC pump and a rotary lobe pump under idle conditions.

As you can see, due to the tight relationship between the rotor and stator in a progressing cavity pump, (the stator is actually laying on the rotor), the pump cannot handle running dry even for a short time. As a result, catastrophic failure will result, due to the heat build-up.

On the other hand, Vogelsang rotary lobe pumps, equipped with gooseneck flanges, can run almost indefinitely, without damage.

**For more information, visit our website at [www.vogelsangusa.com](http://www.vogelsangusa.com), to locate a local distributor, or contact Vogelsang direct at 800-984-9400.**

Sludge Pumping, Macerating & Distributing Products

**800 984 9400**  
**vogelsangusa.com**