

Applications

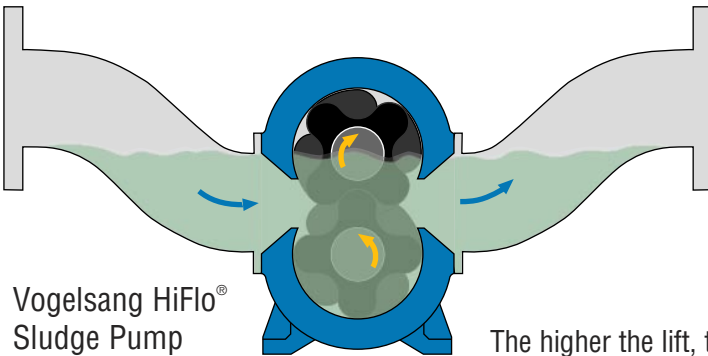


VOGELSANG

Sludge Pump Division



Application Suction Lift



Vogelsang HiFlo[®] Sludge Pump with gooseneck flanges.



A pump has to generate a lower pressure at the suction port to draw a fluid up into the suction area. The maximum height that a fluid, with a specific gravity equal to water, can be drawn is approximately 30 feet from a tank open to atmosphere.

At certain speeds, using HiFlo, pulsation-free lobes and a gooseneck or 90 degree flanges, Vogelsang Sludge Pumps can move air. This allows the pump to evacuate air in the suction line thus drawing fluid into the pump.

The higher the lift, the more difficult it becomes for the pump to evacuate the air in the line and pull the fluid up the pipe. The maximum recommended lift for a Vogelsang Sludge Pump is 25 feet. To achieve better results in suction lift applications, the use of smooth wall pipe is highly recommended. This will reduce friction between the liquid and the piping.

Another consideration in suction lift applications is mechanical seal design. Vogelsang Mechanical Seals are the best choice in this application, as packing may draw air into the gearbox when performing higher suction lifts. Also, Vogelsang's oil-filled, closed blocking chamber alleviates the need to flush mechanical seals with water, a necessity with the open style seal chamber in other pumps, thus reducing maintenance, and the need for outside water sources.

Sludge Pumping, Macerating & Distributing Products

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