



## SINE PUMP

### The Sine pump principle

A single sinusoidal rotor in the pump creates four evenly sized chambers as it rotates within the pump. Fluid is "pulled" through the inlet on the suction side into each chamber in turn. As each chamber rotates, it contracts, closes and finally discharges fluid through the outlet port. At the same time, the opposite chamber opens to draw in more fluid. The result is a perfectly smooth flow, free of any pulsation.

A gate functions as a seal between the inlet and outlet sides of the pump. Preventing equalisation of pressure and stopping fluid escaping from the higher pressure outlet into the lower pressure suction side. The sinusoidal rotor rotates within two replaceable liners, ensuring no wear to either the pump housing or cover.



### APPLICATIONS

Liquid washing agents  
Adhesives  
Liquid polymer  
Latex

### SINE PUMP ADVANTAGE

Energy efficient pumping action – Reduce your energy costs and minimise CO2 emissions.  
Gentle product handling – ultra low shear ensures continuity of product quality.  
Superior viscous handling with lowest NIPR/NPSHR – powerful suction up to 0,85bar vacuum without running the pump under cavitation.  
Simplicity – Minimal downtime. One shaft, one seal and no timing gears enable easy in-place pump maintenance in minutes.  
Interchangeable parts – Fully interchangeable components between pumps of the same size, reducing spares inventory