



## **CAVITATION TROUBLESHOOTING**

Cavitation can cause serious damage to the pump and the system. Read the conditions and solutions to help eliminate the possibility of machine downtime and maintenance costs.



Condition	Solution
Unsuitable dimensioning of the supply line	Increase the dimension of the supply circuit
	It must be at least one size larger than the inlet coupling
Excessive pump pulsation	Move the supply tank closer to the pump.
	Add a pulsation damper
Rigid pipes on the suction line	Use reinforced (flexible) hose for the inlet and by-pass to absorb
	pulsations and pressure spikes
Excessive number of elbow joints on the	There should be as few elbows as possible and they must below
inlet pipe line	90°
Excessive liquid temperature	Use thermo valves on the by-pass line
	Replace a closed loop with a separate double tank
	The size of the tank must be at least 6-10 times the flow rate of the
	pump.
	The temperature of the pumped liquid is too high
	Ensure cabinets and rooms have sufficient ventilation
Air bubbles in the pipes	Check all connections
The liquid in the eventh tenth is exiteted	Use PTFE tape or sealing paste for pipes
The liquid in the supply tank is agitated	The size of the tank must be at least 6-10 times the flow rate of the
	pump.
	Fit a separate tank to eliminate the air between the inlet and the outlet
Very viscose liquids	
very viscose liquids	Check the viscosity of the pumped liquids prior to operation (<500 CPS/2500 SSU)
	Raise the temperature of the liquid to reduce its viscosity
	Lower the number of rpm of pump operation
	Add an extra supply pump
	Increase the line input dimension
Blocked filters	Clean the filters regularly
	Use clear filters so it is easier to monitor their status
	Use appropriate mesh size for the specifications of the liquids and
	pumps, 80 mesh (177 microns) is recommended for freshwater