

# INSTRUCTIONS FOR INSTALLATION AND OPERATION

Hawk pumps are built to pump clean, fresh water or water with a low percentage of various detergents. Contact your dealer in case of use with salt water or harsh chemicals or should you have any doubts with regard to any of the points below.

**WARNING: FAILURE TO INSTALL THE PUMPING SYSTEM CORRECTLY CAN RESULT IN INJURY OR DAMAGE TO PROPERTY**

To prevent damage to the pump or injury, it is essential to fit a pressure control valve and a safety valve to prevent the pressure accidentally exceeding its operating value. Contact your dealer to be sure of choosing the best valves for your application.

The pump should not be used at higher pressures or speeds of rotation than those described for each product version in this manual.

The pump should be installed horizontally with respect to its base to facilitate optimum lubrication.

The pump's suction line must be proportional to the flow rate and its diameter must not be less than the diameter of the suction mouth. It is important that there be as few bottlenecks on this line as possible (elbows, T couplings, reductions, etc ...). Each junction on the suction line must be sealed properly with Teflon tape or a similar product to avoid leaks or air intake (cavitation). Fit a filter to capture any impurities.

The delivery line must be able to support the operating pressure of the pump; excessively narrow passages can result in loss of pressure at the lance

A suitable flexible coupling should be used for direct coupling with the electric motor. With pulley-driven versions, make sure the pulleys are aligned and there is adequate safety protection.

Before starting up the pump, make sure the oil is up to level. We recommend the first oil change within the first 50 hours of operation. Subsequent oil changes should take place every 500 hours, or more often in case of heavy use. Use the oil indicated on the pump's specifications label.

After starting up the pump, aid priming by keeping the delivery line open. Do not let the pump run dry: this can result in rapid seal wear and invalidates the warranty.

When using chemicals, run the pump with clean water for several minutes after use. Do not use the pump at very low temperatures. To prevent freezing, run the pump dry for about 20 seconds to drain the pipes.

If the pump has been inactive for a long time, a small amount of water may leak from the seals for the first few minutes of operation.

**WARNING: FAILURE TO COMPLY WITH THESE OPERATING CONDITIONS INVALIDATES THE GUARANTEE.**