



WÄRTSILÄ HAMWORTHY PRIMING SYSTEMS FOR CENTRIFUGAL PUMPS

DESCRIPTION

Most centrifugal pumps are not self-priming. The priming systems convert centrifugal pumps into an automatic self-priming type and resolves suction challenges for centrifugal pumps. It eliminates challenges of air entrapment to ensure trouble free operation, especially so when the pumps are installed with a negative suction.

Various priming systems are available at Wärtsilä Pumps & Valves to meet all diverse needs.

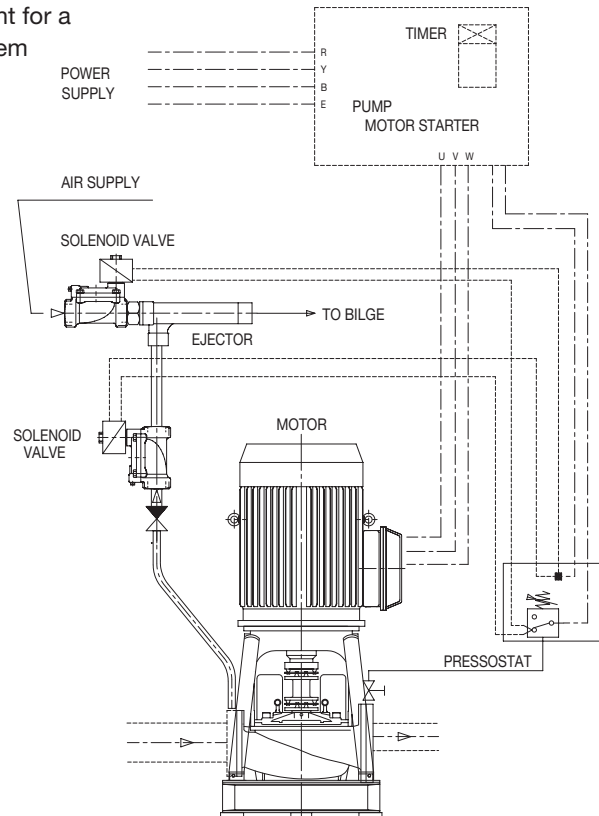
AIR EJECTOR PRIMING SYSTEM

Electrical priming system: The PM series of priming system that uses an air ejector system to remove air that may be trapped in the suction line. The PMB and the MkIII air ejector systems consist of solenoid valves and a pressure switch that controls the starting of the pump automatically and ensures the pump is primed, with timer controlled in the starter panel.

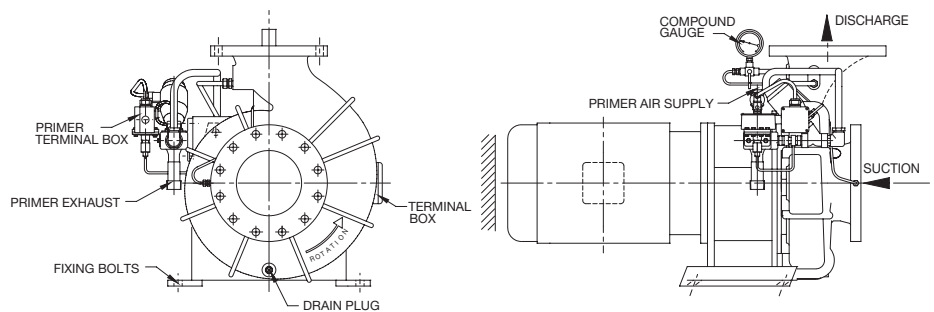
The standpipe priming unit is meant for priming a single big capacity pump. Installing on the suction pipe, it consists of air gas standpipe, air ejector, and pneumatic valves.

The PMC is a manual air ejector system using shut off valves.

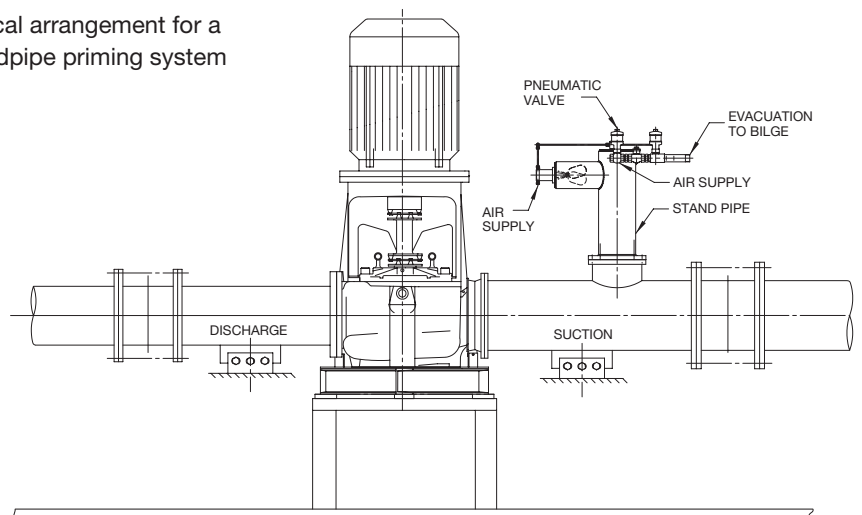
Typical arrangement for a PMB Priming System



Typical arrangement for a MkIII Air Ejector Priming System



Typical arrangement for a standpipe priming system

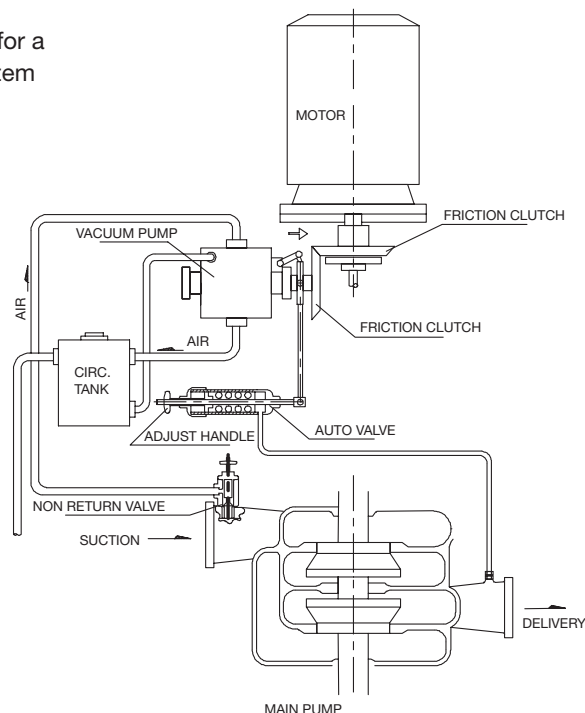


VACUUM PRIMING SYSTEM

The LRP primer system uses a vacuum pump with air separator, float valve and vacuum relief valve to ensure the pumps are fully primed automatically.

The VK priming system consists of mainly an eccentric vane vacuum pump, circulating cooling water tank, mechanical clutch and auto cylinder. The auto cylinder automatically engages the clutch to the motor coupling when the set pressure is met.

Typical arrangement for a Vacuum Priming System



CENTRAL PRIMING SYSTEM

The PC system is design to serve a series of centrifugal pumps. This system consist of vacuum pumps, starter panels, pressure switches, valves, water trap tank, heat exchanger etc., to automate the priming of a series pumps.

Typical arrangement for a Central Priming System

