ABEL®
Pump Technology

ABEL HMQ

Pump Synchronization

Several Pumps one Pipeline



Diaphragm Pumps
Solids Handling Pumps
High Pressure Pumps
Marine Pumps

www.abelpumps.com

HMQ Pump Synchronization

Thanks to our concept of pump synchronization, 2 or more HMQ pumps can easily being operated in parallel and pump into a common pipeline.

Advantages

- Higher total flow rate
- Less pulsation in the pipeline
- Less wear results in lower life cycle costs
- Simple installation without additional equipment
- More efficient and economical operation of the entire plant

This synchronization system is made by three main pump components:

- **PLC control** unit for processing the program for the pump synchronization
- **Frequency converter** for determining the speed and analog inputs / outputs
- **Sensors** for piston position balancing

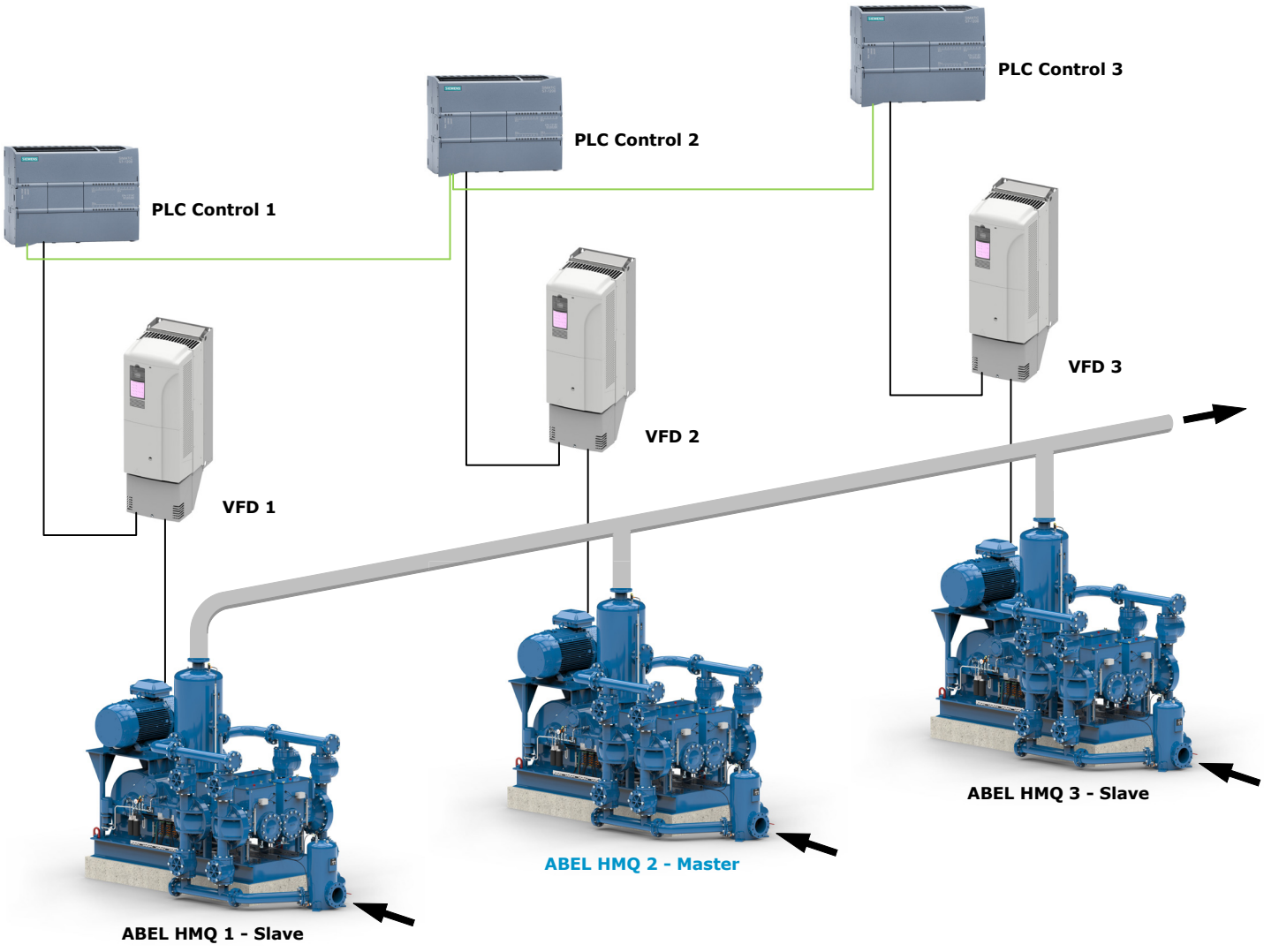
Master & Slave

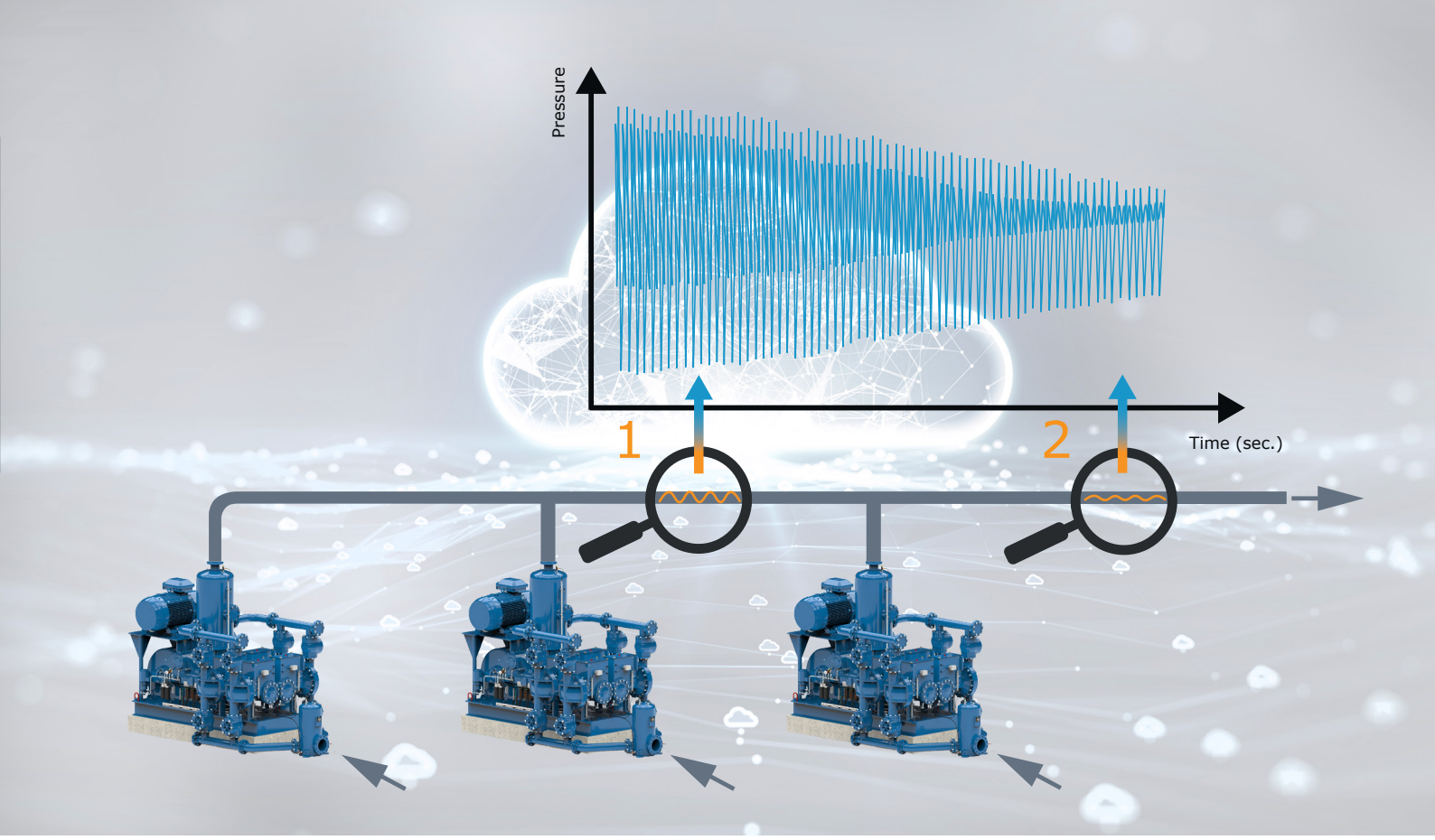
ABEL uses the master/slave functionality for synchronization.

One pump specifies the operation and thus acts as the master pump. The other pumps follow and act as slaves.

The control room can determine which pump should run as master and slave.

Synchronization Setup





Immediate Difference

1 The graph above shows the starting point of the pumps and high pulsation in the piping system.

2 Within a few seconds the synchronization becomes active and pressure fluctuations are reduced immediately.

Need more Optimization?

The ABEL Smart Pump Assistant (SPA) is the best choice to operate ABEL pumps efficiently and economically due to:

- Monitoring of various pump parameters
- Intelligent services (e.g. efficiency measurement, alerts & notifications)

The SPA is an integral part of new ABEL pumps and also available as a retrofit kit.



ABEL®
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The pumping solution for your industry:

- Mining
- Water and Wastewater
- Ceramics
- Chemical
- Oil and Gas
- Energy Industry
- Corrugated Board
- Paint and Varnish
- Petrochemical

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