Vacon 100 FLOW Intelligent Pump and Fan functions

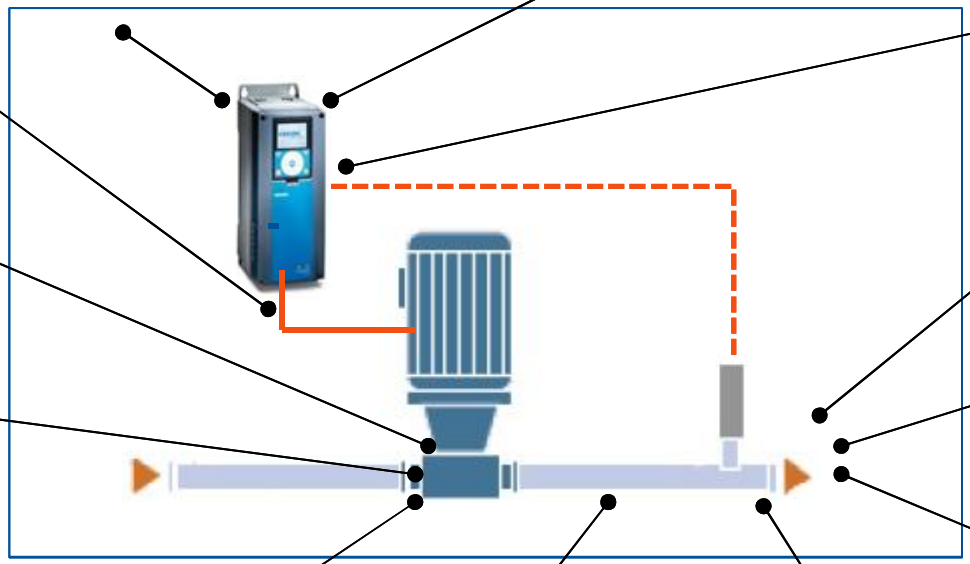
2 x PID controller
Controls pressure, flow, temperature etc. based on measurement signal from sensor 2nd controller e.g for valve control

2-Zone PID controller
Controls two process values in parallel, for example main control value is temperature, secondary control value is flow

Start Boost
Increases starting torque to ensure starting of pump in all conditions

Dry Pump / Belt Broken Supervision
Stops the pump or fan when there is not enough torque on the motor shaft

Auto-cleaning / Anti-ragging
Detects abnormal increase in torque due to blocked pump and runs cleaning sequence



Sleep Mode
Stops the pump/drive automatically in case of low demand. Restarts when pressure dropped below threshold

Sleep Boosting
Increases system pressure temporarily before entering sleep mode to maximize time to restart

No Demand Detection
Ensures that the pump is not run at unnecessarily high speed to maintain pressure in case of no demand

Pressure loss compensation
Compensates pressure reference for drop in pressure in piping or ducting after the measurement sensor

Frost protection for pump
Restarts the pump automatically if in sleep mode to avoid risk of pump freezing

Soft filling of pipes
Runs the pump at a lower fixed speed until a pressure increase indicates that the pipe is full

Process Supervision
Supervision of process running within safe limits.