P MONITOR

CE

Pump control over full operating range

Power control to safeguard pumps

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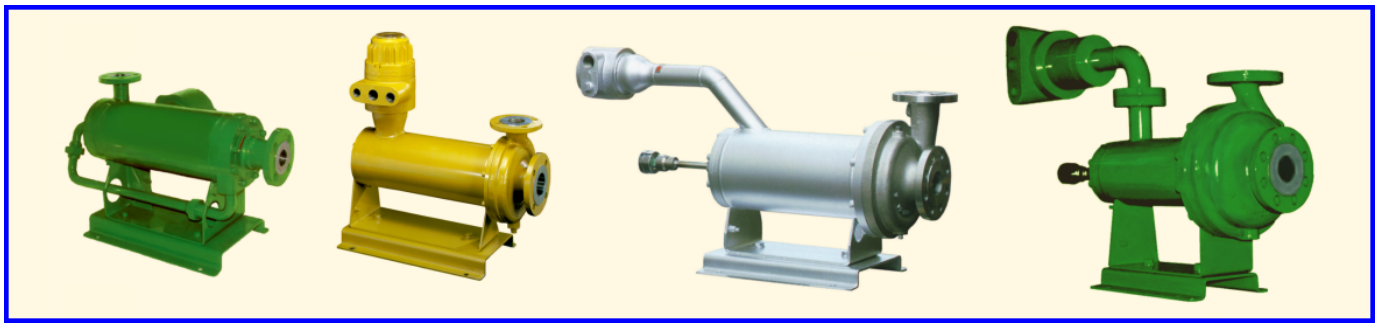
Nikkiso P-Monitor



These pumps can be protected by a Nikkiso P-Monitor

General

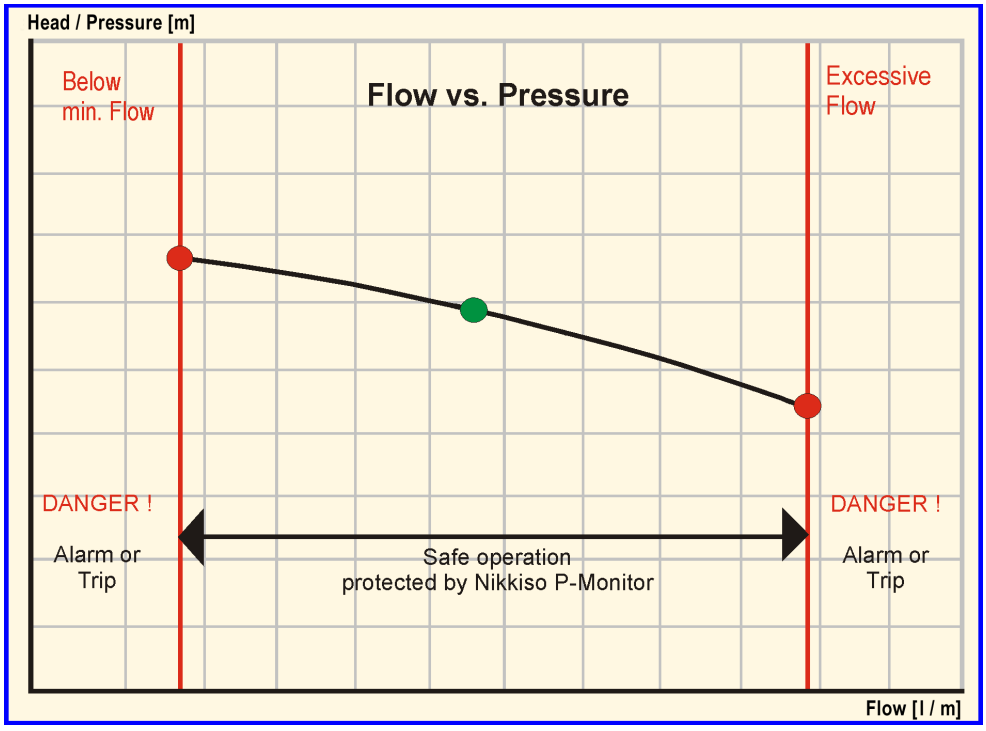
The Nikkiso P-Monitor is an intelligent Power-Control Unit, which is based on the latest advances in Micro-processor technology. The unit measures the true power-consumption of a 3-phase AC-motor and shows it as a percentage of the selected power-range. The power consumption (kW) is calculated from the following formula:

$P(kW) = \sqrt{3} \times U \times I \times \cos\varphi$ (I [current] and cosφ are controlled by the Nikkiso P-Monitor)

The Nikkiso P-Monitor integrates a max./ and/or min. kW limit detector and the support functions necessary to establish the efficient and compact supervision or regulation of pumps.

Functional description and application

If a pump runs dry, the power consumption decreases.
If the quantity of liquid pumped is higher than the design capacity allowed, a max. permissible power consumption can be defined.
Both values can be controlled with the Nikkiso P-Monitor and can be used to switch alarms or trip the pump. Operation against closed valve on the discharge side or the min. flow of the pump can also be controlled.



Intelligent Device !

- High Trip Alarm
- Low Trip Alarm
- Digital Display
- Start and Trip Delay Timers

Technical Data

Frequency range
45 - 65 Hz

Relay output
250 VAC / 5 A

Protection class
IP 54 Housing

Voltage range
120 up to 690 V, 3 Phase