

The simplest ideas are often the best

Guardian and Sentinel

Protection systems for added peace of mind

Flotronic diaphragm protection and alarm systems



Flotronic Pumps have an excellent reputation for product and performance quality ...

... but the unexpected can still happen, including diaphragm rupture. That's why we offer systems that can sound an alarm and immediately shut the pump down if required.

Flotronic's diaphragm protection and alarm systems have evolved significantly over the years. It's an evolution which has been carefully managed to avoid compromising our unique 'One-Nut' maintenance advantage.

Today, our protection and alarm systems:

- **have no buffer fluids**
- **feature no electrical components**
- **have no start-up procedures (unless required)**
- **provide an instantaneous alarm if a diaphragm ruptures**
- **can be used on the full range of Flotronic pumps**
- **are available in Aluminium, PVC, Polypropylene, PVDF, Stainless Steel, PTFE and anti-static PTFE.**

Guardian

Flotronic's protection package is the Guardian, which uses an additional diaphragm behind each of the primary working diaphragms. In the event of a rupture, the secondary chambers created by the additional diaphragm arrangements will:

- **contain the media within a compatible intermediate chamber**
- **save the pump air system from damage**
- **reduce the risk of leakage into the environment.**

The Guardian has additional tappings enabling customers to connect their own pressure switches for pressure indication of diaphragm rupture.

Flotronic 'One - Nut' pumps - The simplest ideas are often the best

Sentinel vacuum system with audible alarm

Sentinel

The Sentinel provides an upgrade to our Guardian package incorporating an audible alarm and/or pump shut down facility.

A self-contained pneumatic system, the Sentinel senses the imminent danger presented by a diaphragm rupture or leak by detecting the loss of vacuum in the intermediate chamber. Sentinel can then, if specified:

- **shut down pump**
- **sound audible alarm**
- **provide an auxiliary pneumatic pressure signal.**

Sentinel vacuum system with audible alarm

Installing Flotronic's vacuum system with whistle or horn enables operators to take their pump to remote applications. Once the pump is in position and air supply activated, the alarm is primed with a vacuum generated between the pump diaphragms. An audible alarm sounds if the vacuum is lost as a result, for example, of diaphragm failure. The pump can either continue to work or shut down if this option has been chosen.

Customisation

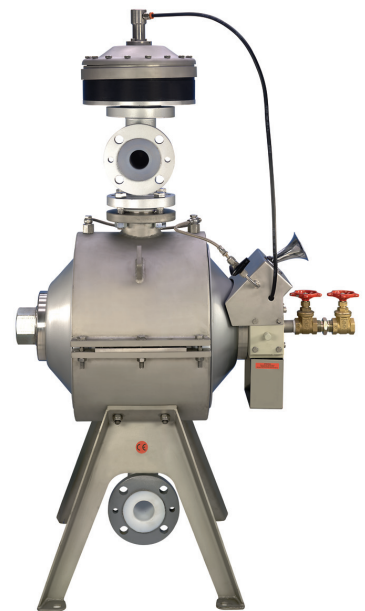
Like all Flotronic products, Flotronic's Guardian and Sentinel alarm systems can be modified to suit your requirements. Options including connections, construction materials and surface finishes, all of these can be customised to suit your application or process.

Additional information

Materials to be compatible with your Flotronic pump specification:

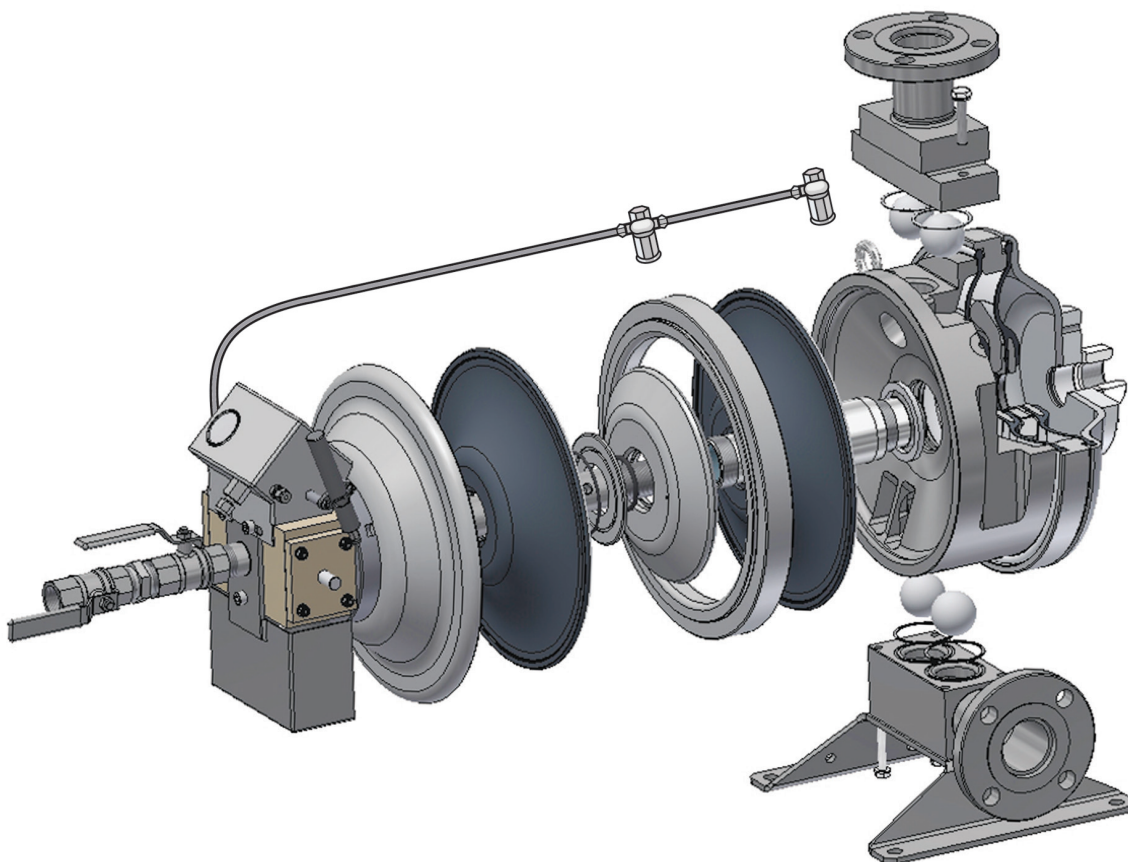
Including: Aluminium, PVC, Polypropylene, PTFE, anti-static PTFE, 316 Stainless Steel, PTFE, NITRILE, EPDM, Anti-static PTFE.

The entire range of Flotronic pumps and Pulsation Dampers can be supplied with Guardian/Sentinel packages.



Flotronic's commitment to high quality management of the processes that create and control our products has been recognised in the achievement of the ISO 9001 accreditation, the internationally recognised standard for quality management of businesses.





Typical arrangement of our 'Slimline' pump with the Guardian and Sentinel system.

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Specifications subject to change without notice.



ATEX APPROVED PUMPS

