

Permanent Strainer-Self Cleaning

Product Coding
P4103XXXXX

Introduction

In services where continuous flow is required, the first effective option is an automatic self cleaning filter. This package allows cartridges to be cleaned automatically by use of a PLC system. Maintenance is reduced to a minimum, and the whole process can be monitored from the control center. The advantage of this type of filter is less space occupation in sites that do not have enough space for sand filters. This package includes below sections:

- Filter elements and housing
- Electro motor and rotary system
- Instruments
- PLC system

Specifications

Fluid is pumped to filters to retain particles. After passing certain amount of fluid according to distribution and nature of the particles, the cartridges clog and lead to high pressure drop. At this point, cleaning phase automatically begins.

The rotary arms pass from bottom of each cartridge and the automatic valve of drain opens, hence the retained particles flow throughout the drain nozzle.

After a specified time or adjusted pressure drop, drain valve will be closed and the pressure drop falls below allowable point, however the main stream of the fluid will never stopped and all the cleaning process is applied while the fluid is continuously being filtered.

Features

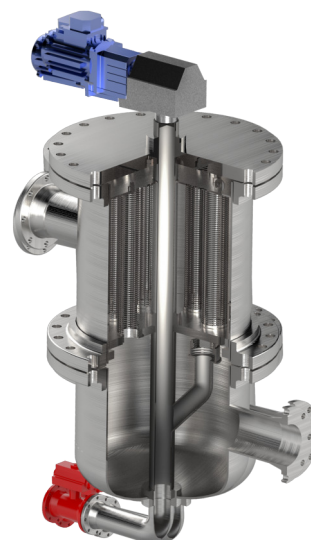
- Self cleaning strainers must be equipped with a discharge valve
- Used as a substitute for duplex strainer where continuous supply in the process system is critical

Element Types

- **Brush model:** Suitable for low viscosity products. A special feature is the two bars in the perforated cylinder for cleaning the brushes.
- **Screw model:** Suitable for heavy viscosity products such as animal fat and wax.

Applications

- Oil and gas refineries and petrochemical plants
- Feeding of boilers
- Cooling water
- Recommended for services requiring frequent cleaning
- HVAC
- Food and beverage



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