



Auto-line[®] Automatic Filters

30 - 1000 micron

HiFlux Auto-line filters are designed as compact self-cleaning automatic filters made from stainless acid-proof EN 1.4404 steel with a wide range of applications. The robust construction of the filter makes it suitable for cleaning practically all liquids, including lubricating oil, bitumen, HFO, grease, paint, toothpaste, water, fermentation liquids, petrol, syrup, condensate, CIP liquids, antibiotic suspensions, paint, lacquer, many types of waste water etc.

The filter is used when an automatic continuous cleaning process is required. Because the impurities are being concentrated in the filter until it is drained away while the filter is still in operation, the liquid loss due to cleaning is minimal.

The filtration principle is based on filter elements with the dirt particles being retained on the inside surface of the filter element.

In the cleaning process the dirt is scraped into a sludge chamber from where it is drained away from the filter at appropriate intervals. This results in a defined and absolute cleaning of the filter.

Drainage is controlled individually, which means that the loss of medium is reduced to an absolute minimum.

When cleaning, the scraper is lead through the filter element and scrapes the dirt into the sludge chamber. Since the scraping plunger is milled out, the flow through the filtration can continue during the scraping process. This means that the filter can work continuously and the flow is not interrupted during the cleaning process.

The drainage of the filter takes place through the bottom valve, which can be set to be activated after a certain number of scrapings. Due to this the sludge is being concentrated before it is pushed out of the filter. This means that product loss is reduced to a minimum.

Draining usually takes place within a period of 1 - 3 seconds, where a minor fall of pressure can occur. The flow in the filter will only be reduced by about 5 - 10% during the short period the drainage takes place.

The **E**-type filter has an extended pneumatic cylinder, so that cross contamination between the liquid to be filtered and the pneumatic system is avoided.

In the design of the filter importance has been attached to making the construction robust and reliable. By limiting the number of moving components, wear and maintenance requirements are minimised. The simple construction makes the filter very easy to service, hence there is no need for external service assistance or special tools.

For other possibilities see **Auto-line R, KS and AKS 137 filters**.

