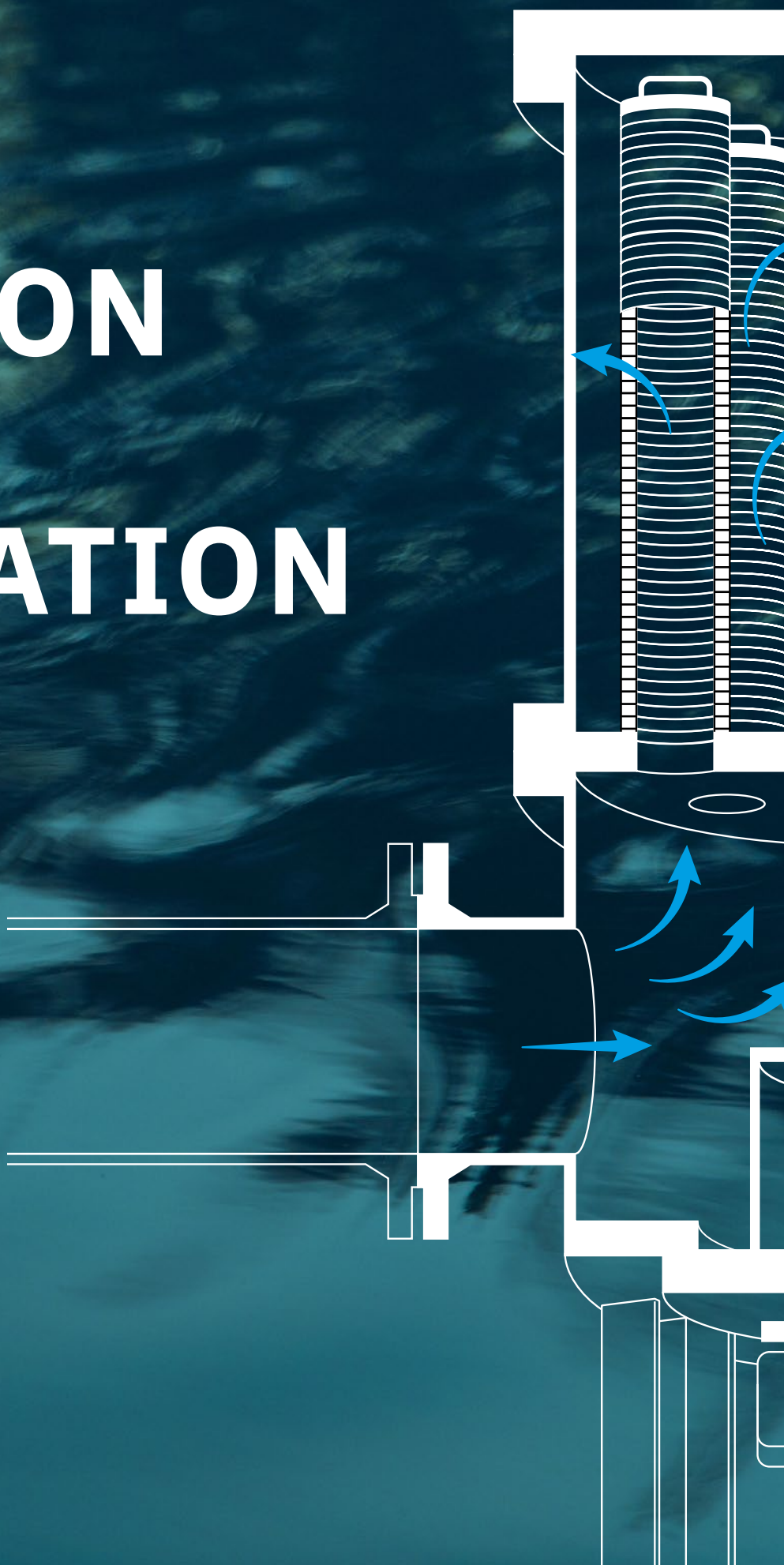
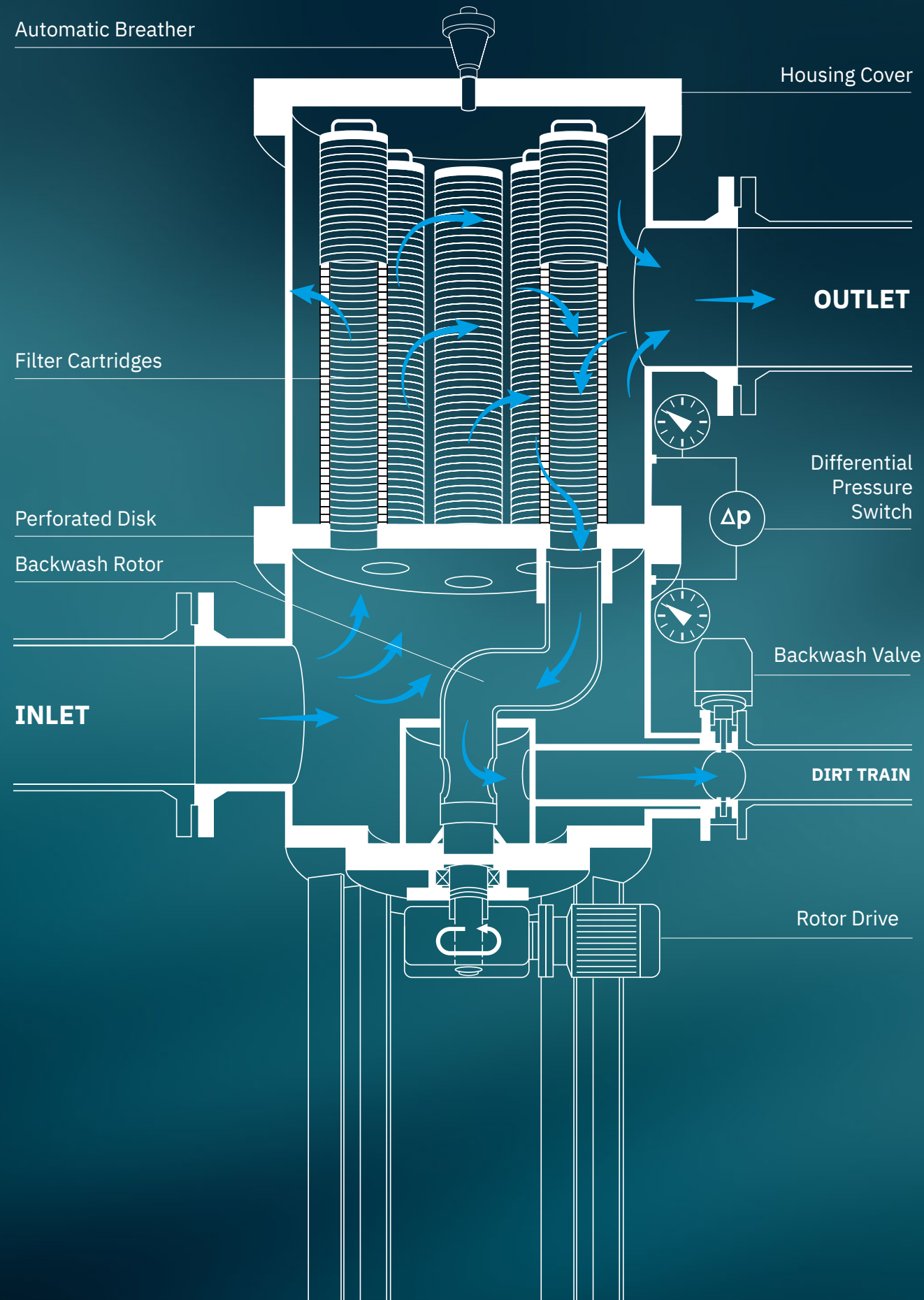


PASSION FOR FILTRATION



Future-oriented
filtration solutions
for water treatment





FIOLA
Filter Technology

Protection of your systems and procedures

FIOLA filter technology provides **maximum filtration quality** for your water treatment and wastewater systems.

As one of the **market leaders** in the field of **automatic filters**, we have specialized in these filter processes. We can draw on **decades of extensive experience** and **innovative strength** in the field of holistic **customized filtration solutions**.

We focus on the **continuous operation** and **protection of your system**.

FIOLA AQUAPROTECT



HIGH QUALITY STANDARD SOLUTIONS & INNOVATIVE SPECIAL CUSTOMIZATIONS

Our **customized construction service** enables the implementation of **customer-specific filters of different sizes** and corresponding requirements in the area of **water and wastewater treatment plants**.

In addition to supplying spare parts, **FIOLA's service team** also ensures the **trouble-free use of our filters**.

We supply our customers **worldwide**.



FIOLA AQUAPROTECT THE AUTOMATIC BACKWASH FILTER

FILTRATION

The **contaminated water** enters the **filter system in the lower housing**. The **flow is then distributed** to the **filter cartridges**, which are mounted on the **filter holder**. The **impurities are retained in the filter cartridges** and thus create an **increasing flow resistance**. The purified water leaves the upper housing. Any trapped **air and gas inclusions** are separated by an **automatic deaerator**.

BACKWASHING

As soon as the set **differential pressure is reached** or after a preselected time has elapsed, **automatic backwashing is triggered**. The **backwash valve opens** and **reverses the flow direction** in the **filter cartridge** above the **backwash rotor**. After one full rotation of the rotor, the backwash cycle is completed and the backwash valve is closed again.

OPTIONS

- **V-gap filter elements**
- **Inner coating**
- **Alternative housing materials**
- **Additional flushing water connection***
- **Material and test certificates DIN EN 10204**

*At low operating pressures, an **additional flushing water line** can be connected to the upper filter housing. The higher pressure supports the **backwashing process** and ensures improved filter cleanliness.

STANDARDIZED CUSTOM-MADE LOW MAINTENANCE

- ✓ **Entire filter system** with accessories and fully wired ready for use
- ✓ **Customized** according to **customer requirements**
- ✓ **Low maintenance**
- ✓ **Easy access** to the **filter cartridges**
- ✓ **Extended pressure and temperature range**
- ✓ **Nominal diameter** of the connection flanges according to **customer requirements**
- ✓ Accessories according to **your specifications and standards**

... AND FURTHER ADVANTAGES:

No interruption of the filtering process **during backwashing**

Highly reliable technology with our **ElastoSpalt (elastic gaps)** filter elements

Proven and robust design according to **Pressure Equipment Directive**

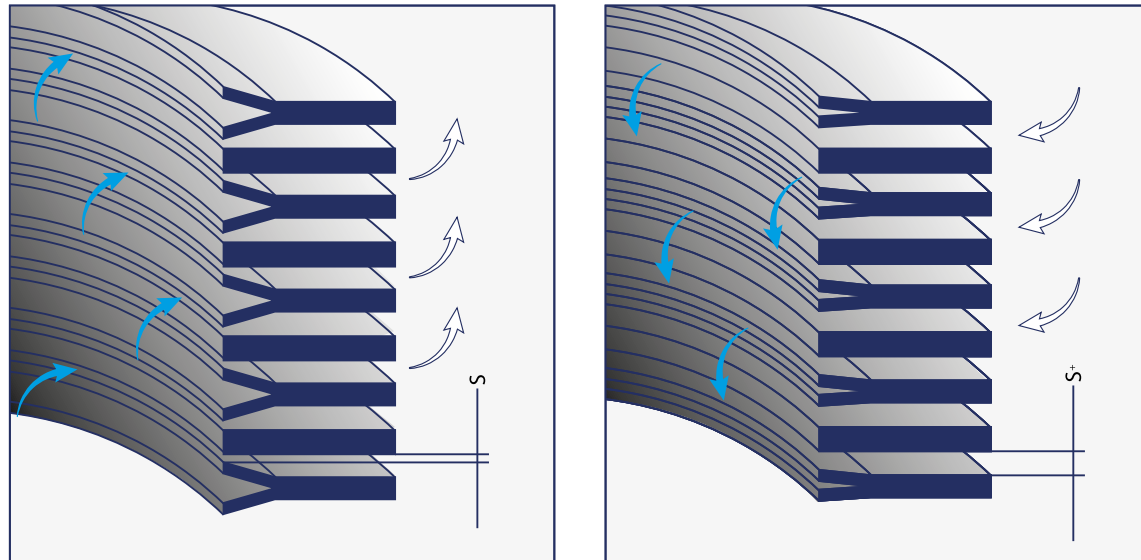
Split filter housing with **variable flange positions**

Flow rates up to **10,000 m³/h**

Welded construction for up to **40 bar operating pressure**

Filter fineness from **50 µm to 1000 µm**

OUR FILTER CARTRIDGES

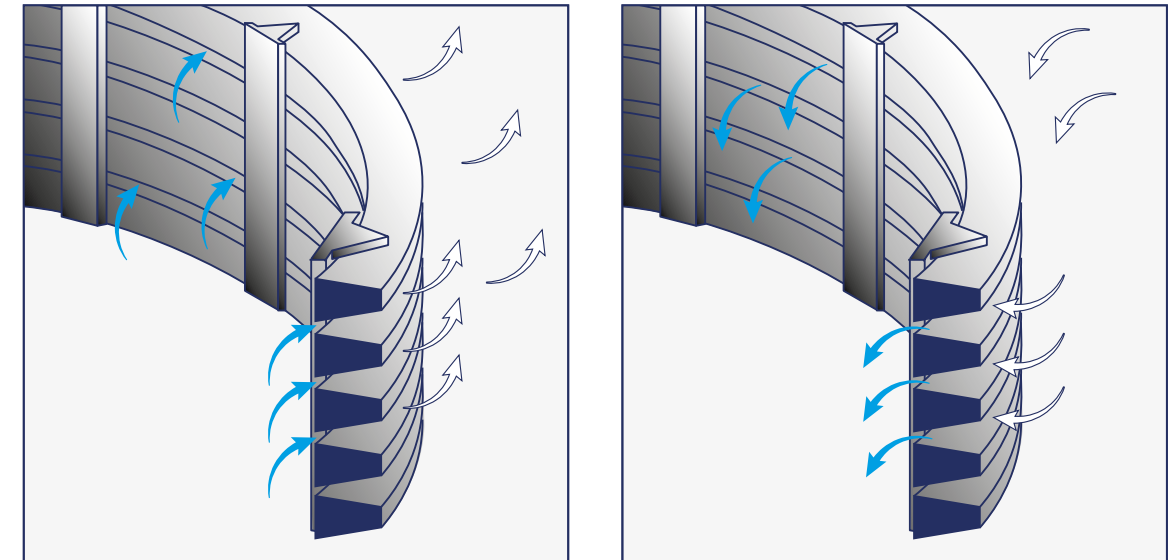


ElastoSpalt (elastic gap) filter cartridges – Reliable & maintenance-free

The precisely defined **gap dimensions** of the **ElastoSpalt** (elastic gap) filter elements **widen during backwashing**. The result: **Separated particles** and even **fibrous suspended matter and solids** are **consistently backwashed** and **do not lead to permanent blockage**.

Backwash filters with these **dynamic filter elements** are **extremely reliable** and require **minimal maintenance**.

The **polypropylene material** is suitable for **all contaminants** and **liquid temperatures up to 80 °C**.



V-gap filter cartridges For high temperatures

Rigid V-gap filter cartridges made of **stainless steel** are **common** in many applications. Various gap dimensions are **available in a large number of diameters and lengths**.

Preferred use for filter finenesses **above 300 µm** and for **high media temperatures**.

Industry
Sewage treatment
Desalination
Mining
Snowmaking
Power stations

**MAXIMUM
FILTRATION QUALITY
FOR YOUR SYSTEM**

Our products are used in a **wide range of industries**. From the **chemical and pharmaceutical industry** to the **automotive and foodstuff industries**, our filters are in use **all over the world** and meet the most diverse requirements. Whether **river water, seawater or cooling and process water**; you will find filter systems from **FIOLA Filtertechnik GmbH** with **maximum filtration quality** and complete **customer satisfaction** in all areas of application.

FILTERED LIQUID & STABLE PRODUCTION WITH FIOLA AQUAPROTECT

The **FIOLA Aquaprotect automatic backwash filter** has been developed specially **for industrial applications**.

The **FIOLA Aquaprotect filter** operates with an **automatic backwash process** that is activated when the filter is saturated with impurities. The medium will be conducted through the filter in the opposite direction to **flush out the impurities** and clean the filter.

It is used to **remove impurities and solids from liquids** and thus improve the quality of the of the medium.

This filter offers an **efficient and reliable solution** for industrial applications where a **clean and contamination-free liquid** is required.



Image: FIOLA AQUAPROTECT

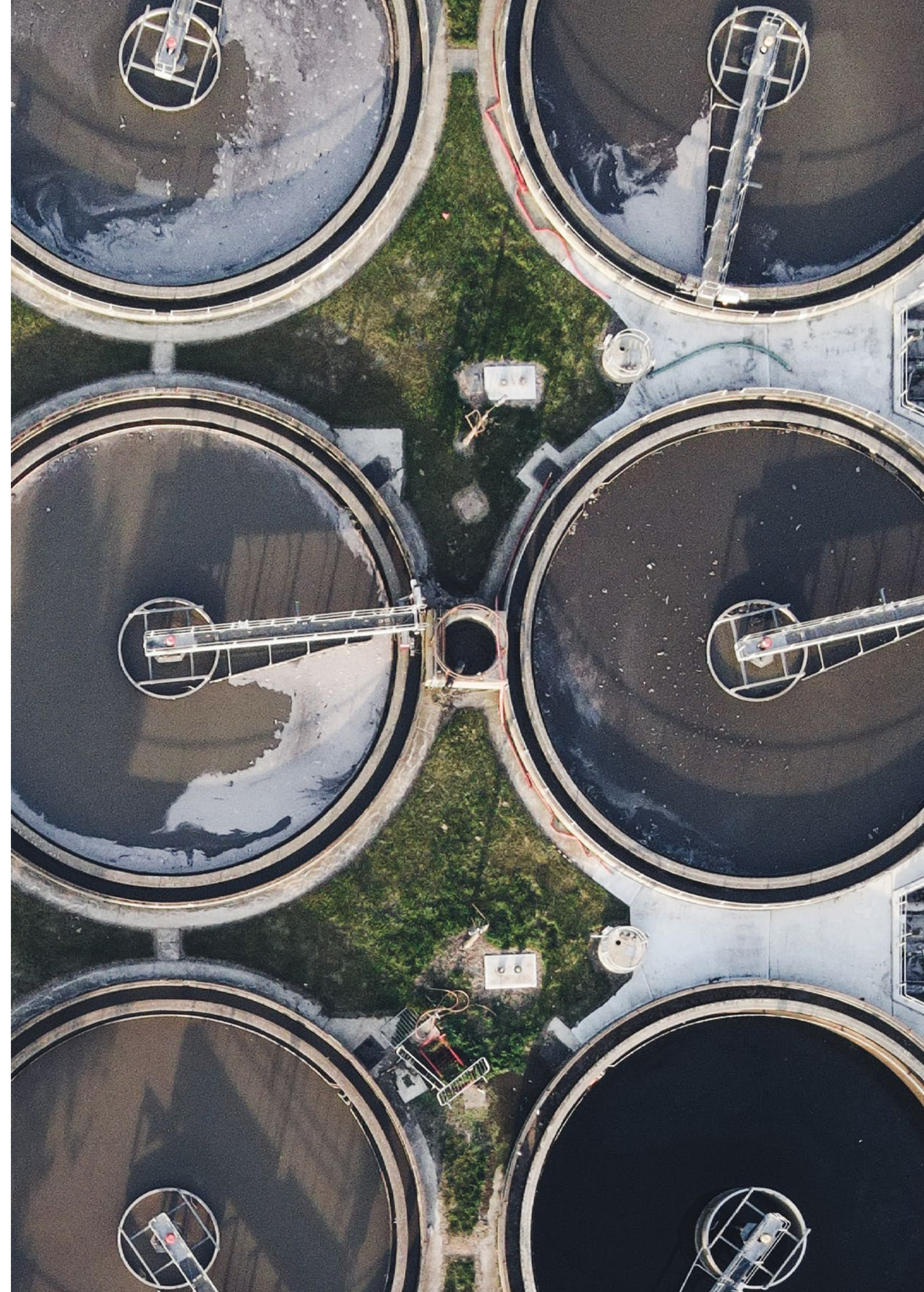
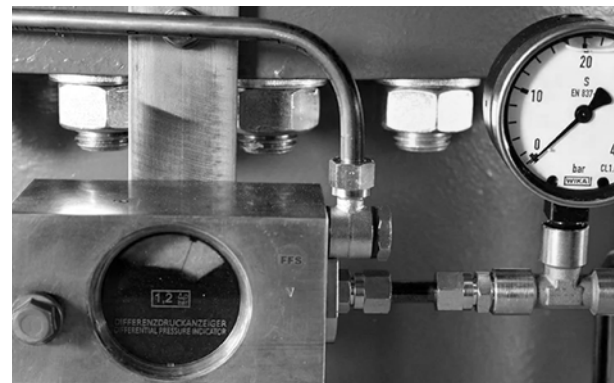
IMPROVE THE CLEANING EFFICIENCY OF YOUR WASTEWATER TREATMENT PLANT WITH FIOLA

The FIOLA **Aquaprotect automatic backwash filter** has also been designed for use in **wastewater treatment plants**.

The **FIOLA Aquaprotect** filter operates with an **automatic backwash process** that is activated when the filter is saturated with impurities. The medium will be conducted through the filter in the opposite direction to **flush out the impurities** and clean the filter.

It has been specially developed to **remove impurities and solids from wastewater** and thus **improve the purification efficiency** of the **wastewater treatment plant**.

This filter offers a **reliable and effective method** of **increasing the quality of purified water** in **wastewater treatment plants**.



THE QUALITY OF YOUR DESALINATION PLANT EFFECTIVELY OPTIMIZED

The **FIOLA AQUAPROTECT automatic backwash filter** is also suitable for use in **desalination plants**.

The **FIOLA AQUAPROTECT filter** plays an important role here by **removing impurities such as sand, dirt, rust particles** and other solids from the water to make it **usable for further water treatment**.

The **automatic backwashing process** cleans the filter and **maintains the efficiency of the desalination plant**.

Desalination is the process of removing salt and other impurities from water to make it usable for industrial purposes.

The **FIOLA AQUAPROTECT filter** provides a reliable and effective method of improving the quality of desalinated water and ensuring that it is **free from impurities**, thus contributing to modern water treatment technology.



FIOLA AQUAPROTECT (installation in pipe)

PURE SNOW - FREE FROM IMPURITIES

The **FIOLA AQUAPROTECT automatic backwash filter** is also used in **snowmaking systems**.

The **FIOLA AQUAPROTECT filter** plays an important role here by removing impurities such as sand, dirt, rust particles and other solids from the water used to make snow. The **automatic backwashing process** cleans the filter and **maintains the efficiency** of the snowmaking system.

Snow-making systems are used to produce artificial snow for ski resorts or other winter activities.

The **FIOLA AQUAPROTECT filter** provides a reliable and effective method of **ensuring that the snow produced is free of impurities and of high quality**.



Rigid V-gap filter cartridges





DECADES OF KNOW-HOW IN WATER TREATMENT AND WASTEWATER FILTRATION

FIOLA is your **partner for complex filter systems for the filtration of liquid media.**

We have continuously developed our products to provide you with the best in terms of **product quality and service.**

We offer **professional solutions**, especially for the **filtration of cooling and process water**, and our **self-cleaning automatic filters minimize running costs** for our customers.

Our customers rely on the **quality** of our **FIOLA Aquaprotect filters**, on our **customized services**, our **maintenance services** and our **global performance.**

- ✓ **Fast product availability**
- ✓ **Design according to customer's requirements**
- ✓ **Worldwide delivery of spare parts**
- ✓ **Maintenance & maintenance service**
- ✓ **Highest technical reliability**





ESG IN FOCUS

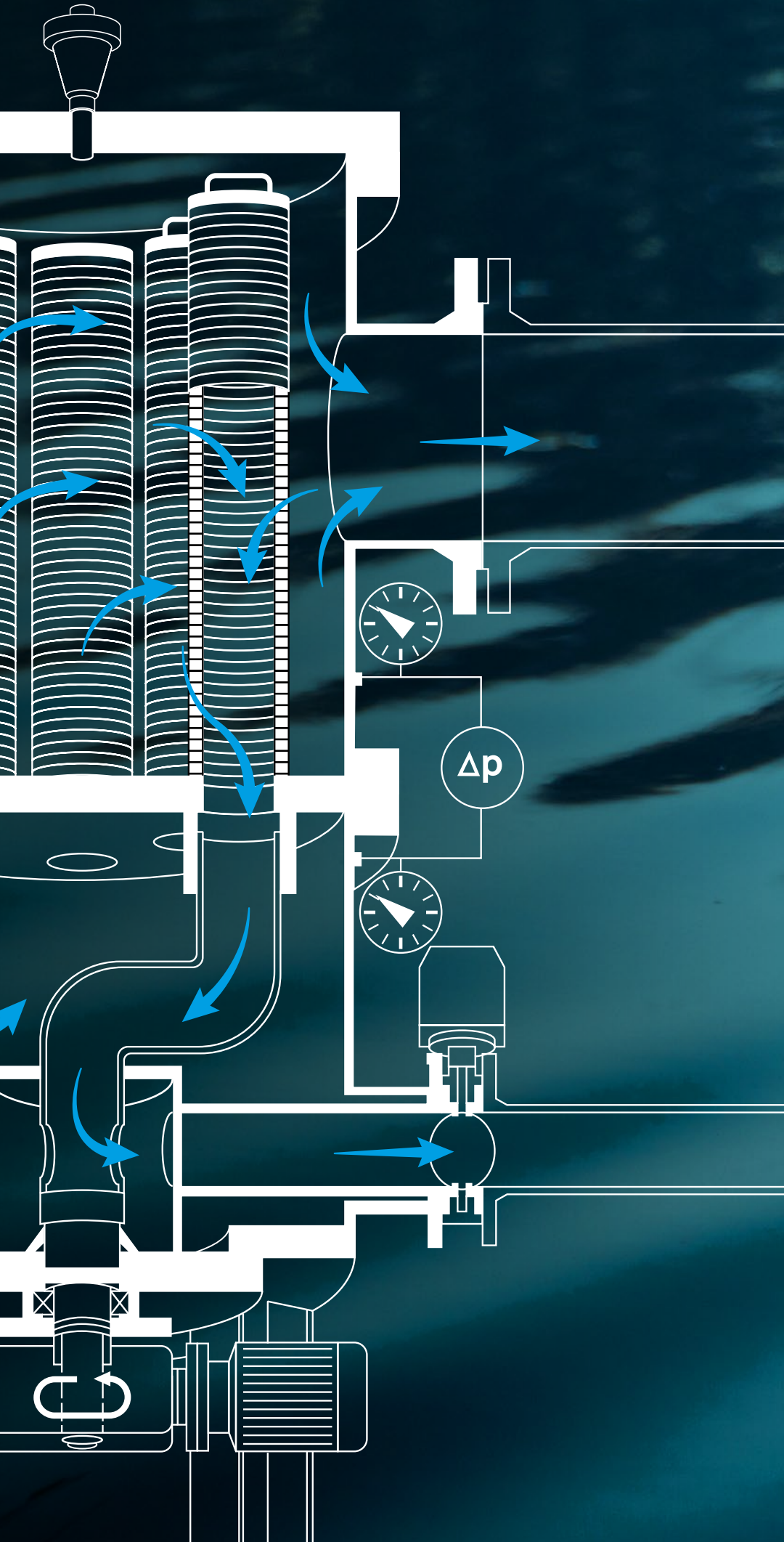
As a manufacturing company we see a **continuous optimization of sustainability** in all processes as one of our special tasks. This is part of our **Code of Corporate Values**.

Our **aim** is, for example, to **use raw materials sustainably**, to **enable training and further education** and to **drive forward further solutions** for **sustainable product development**. We are committed to **conducting our business** in a **responsible** and **economically successful way** and to keep on **developing it further**.



FIOLA

Filter Technology



FIOLA Filtertechnik GmbH
Beuler Höhe 27
45525 Hattingen
Germany

+49(0) 2324 5640 0
fiola@fiola.de

WWW.FIOLA.DE

