

The background of the entire page is a dark blue field filled with various-sized, interlocking gears. The gears are rendered in different shades of blue, creating a sense of depth and mechanical complexity. The word "JUST" is partially obscured by a bright blue gear.

JUST FACTS

The FILCOM magazine for customers and partners

THE NEW KAESER MEASURING TECHNOLOGY

The invisible becomes visible

TIME IS CASH MONEY

How do you find the right filter element?

FILTER & CLEAN COOLANTS

Central systems on machine tools

EDITORIAL

Dear readers,

The quality seal "Made in Germany" undoubtedly stands for high technical standards and innovative strength. But what does the longevity, durability and repairability of products actually look like in Germany?

In November 2023, the "Right-to-Repair" directive was passed by the European Parliament, setting a groundbreaking example for a sustainable economy and responsible use of resources. The focus here is not only on the possibility of repairing defective products, but also symbolizes a fundamental change in the way we think about consumption and use. By promoting repairable products, we not only help extend their lifespan, but also significantly minimize our environmental footprint. Less waste, fewer CO2 emissions and less dependence on fragile supply chains are just some of the positive effects that result from this.



Wilfried Leitenberger
Managing Director of FILCOM GmbH

"Repair instead of throwing away." A motto that is intended to support the change in awareness towards more sustainable use. We at FILCOM GmbH also focus on maintenance & service and offer regional service. Through professional on-site service from our service technicians, we create trust and convey reliability and professionalism. We support our customers in troubleshooting and advise you on your individual application. We tailor individual service and maintenance to the needs of the customer.

Because the future of consumption lies in repair. It is time to take a joint look at the responsibility of producers and the behavior of consumers. Through our collective efforts, we will foster a culture where things are not just thrown away, but where repairing is seen as responsible use. This is not only a milestone for the environment, but also a significant step towards a more sustainable and future-proof society. Let's take this step together!

I hope you enjoy reading!

Yours,

A handwritten signature in black ink, appearing to read "W. Leitenberger", written in a cursive style.

Wilfried Leitenberger

Managing Director of FILCOM GmbH

TABLE OF CONTENTS

■ General.....	4-5
■ Naturally successful - successful of course	6-7
■ AQUApipe - developed for outstanding performance.....	8
■ The new KAESER measuring technology	9
■ Time is money	10-11
■ Filtering and cleaning cooling lubricants	12-13
■ Pressure - level - flow.....	14-15



Coming soon!

We look forward to introducing our new online store to you **shortly**. Discover the whole world of compressed air, filtration and technology at the click of a mouse. Attractive offers, information about our partners and numerous benefits characterize our new store.



Easy navigation in three main categories

Our webshop is clearly divided into three main categories:

- **Compressed air:** Here you will find everything you need for your compressed air application - from compressors to compressed air preparation and measurement technology
- **Filtration:** Discover our extensive range of filters for a wide range of applications in hydraulic filtration, air pollution control and process filtration.
- **Technology:** In this category you will find numerous compressor spare parts, everything to do with pressure and control technology and condensate technology.

ALL PARTNERS AT A GLANCE

We work closely with leading brands and partners to offer our customers the best products and solutions. In our new store you will find a clear overview of all our partners so that you can get a quick and easy overview.

Popular brands at a glance

We are proud to be able to offer you products from leading manufacturers such as KAESER Kompressoren SE, Filtration Group Industrial, Hengst Filtration, BEKO Technologies and many more. You can find a complete overview of our popular brands on our website so that you always know what quality products you can expect from us.



FEATURES AND BENEFITS

Our webshop is not only user-friendly, but also offers you numerous advantages:

- Easy navigation
- Detailed product information
- Wish list
- Fast shipping
- A wide range of payment methods

Doing good together

Last year, FILCOM GmbH actively supported the community and supported various organizations. We firmly believe that it is our responsibility to make a positive impact and help those who need our support most. In addition to our commitment to charitable causes, supporting youth and local clubs is also important to us.

FILCOM GmbH supported the following institutions in 2023:

- Support group for children with cancer
- Support Association for School in the Park e.V.
- School association of the Württemberg Gymnasium e.V.
- Hoffeld Sports Club e.V.

Our donations have helped improve the lives of many people and strengthen communities.

A special matter of the heart was the renewed sponsorship of a room in the Blue House of the Support Group for Children with Cancer e.V. The motto "STRONG TOGETHER & DO GOOD" once again accompanied the company. The close connection between FILCOM GmbH and the Support Group for Children with Cancer e.V. has strengthened over time.

At FILCOM GmbH, we firmly believe that community engagement is not just an obligation, but also an opportunity to live values and make a positive impact. Together with our team, we will continue to do our best to help those who need our support and make the world a better place.

Only together can we achieve great things!



Donation handover in the blue house
f.l.t.r.: J. Nägele, W. Leitenberger, O. Unrath, C. Völklein, N. Maxa



The team of FILCOM GmbH at RIEGLER & Co. KG
Picture source: RIEGLER & Co. KG

See, hear, feel, do...

.. and go home with added value. According to this motto, the FILCOM GmbH team was a guest at the RIEGLER Academy in Bad Urach on February 1st, 2024.

In a one-day "SALES EXCELLENCE" seminar, the team received insights into the world of communication technologies. In order to be able to adapt even better to the market situation and the needs of customers in the future, the employees were equipped with the latest sales strategies with the aim of actively acquiring orders and successfully implementing them. Together with the speaker and sales coach Frank Förster, the team was supported in sharpening their skills in rhetoric, dialectics and communication in order to negotiate and communicate convincingly. The focus is on further consolidating FILCOM GmbH's position in the market and serving customers even better.

The sales training day, **based on Frank Dunker's POLA method**, was very informative and entertaining and gave the entire team practical sales know-how and effective tools for their future everyday work. Theoretical basics were combined with practical exercises, and the seminar day flew by.

Many thanks to the RIEGLER project team Frank Förster, Kristina Vollmer and Johannes Altmann, who gave us insights into the world of compressed air and pneumatics with a short tour of the company at the end of the training.

NATURALLY SUCCESSFUL - SUCCESSFUL OF COURSE

Flawless compressed air for SPEICK natural cosmetics

From a fine soap factory to a specialist in natural cosmetics: The success story of SPEICK Naturkosmetik began in 1928 with the introduction of the classic Speick soap, a trademark of the family company from Stuttgart. The salmon-colored soap with its characteristic scent and the active ingredients of the Speick plant from the Carinthian Nockberge was a groundbreaking innovation in body care at the time, as it not only cleansed but also nourished.

Rooted in a long tradition

Speick Natural soap is no longer the company's only flagship product. The product range currently includes around 140 items, including deodorants, shower gels, shampoos, face creams and micellar water, all of which are manufactured at the exclusive location in Leinfelden-Echterdingen. The company's popularity is constantly growing as customers appreciate the naturalness of the products.

A special feature of all Speick products was the use of the valerian plant that gave it its name. Inspired by the balancing properties of this small plant, founder Walter Rau decided in 1928 to make the valuable ingredients usable again. The unique Speick soap was created from this idea, fascination and vision.

SPEICK | naturkosmetik

To this day, the wild Speick is harvested in the Carinthian Nockberge at an altitude of around 1,800 meters - lovingly handcrafted by the local alpine farming families over generations. This harvest offers the alpine farmers important financial security and at the same time helps to preserve a tradition that goes back decades. After the annual harvest, the dried plants are sent to Stuttgart, where the extract and essential oil are incorporated into Speick products.

REFLECTION ON TRADITION

The family business SPEICK Naturkosmetik, headed by the founder's grandson Wikhart Teuffel, combines tradition and innovation. Fair trade, sustainability and a holistic understanding of people and nature shape the company philosophy. With around 50 employees, the company is continuously working on the further development of its innovative product range and the optimization of work processes and materials. Developments such as the Speick Organic 3.0 series offer, for the first time, 100% recyclable products that benefit both the skin and the environment.



Speick natural cosmetics - Speick original soap
Picture source: Speick Naturkosmetik

Natural cosmetics manufacturer optimizes compressed air

Compressed air is crucial in the manufacturing processes of the cosmetics industry and is used in a variety of applications. Among other things, it is used for cleaning systems and containers, filling cosmetic products, transporting ingredients, operating packaging systems and soap production. To ensure that the use of compressed air does not pose any risks to the manufacturing process and the quality of the end products, comprehensive treatment and continuous monitoring of the compressed air is necessary. Contaminants such as particles, moisture, germs or oil aerosols must be effectively controlled as they can enter the compressed air system in various ways.

The application in detail

In order to keep up with production and produce as energy-efficiently as possible, SPEICK Naturkosmetik has updated its compressed air supply with the help of FILCOM GmbH and technology from KAESER Kompressoren SE. For energy and economic reasons, it was decided to replace the three existing screw compressors that were spread across the production area and thus minimize the time required for troubleshooting.

EFFICIENT AND RELIABLE

SPEICK Naturkosmetik expected high availability and efficiency from the new compressor technology. It quickly became clear to the company that these requirements could be met with two SK 25 series screw compressors from KAESER Kompressoren SE. The SK models impress with their well thought-out, user-friendly design. All maintenance points are easy to reach. When closed, the housing with its sound-absorbing cladding ensures a pleasant and quiet operating noise. It also has three intake openings for separate air supply for highly effective cooling of the system, the drive motor and the control cabinet. Thanks to their vertical design the SK compressors are real space savers.



Oil-water separator QWIK-PURE for condensate treatment
Picture source: Speick Naturkosmetik

Compressed air preparation

But even oil-free compressors require safe processing technology for sensitive production in the cosmetics industry. A refrigeration dryer from the SECOTEC TC 36 series is used to dry the compressed, moist air. Particularly in partial load operation, thanks to the energy saving control, excess cooling capacity can be temporarily stored in the thermal storage and used again for drying without using any electricity. The responsive heat exchanger system ensures stable pressure dew points at all times.

SECURE. CLEAN. MODULAR.

When generating compressed air, significant amounts of oil-containing condensate are produced. Oil-water separators adsorb the oil and thus ensure drainable water. SPEICK Naturkosmetik has chosen the QWIK-PURE 10 from BEKO Technologies for condensate treatment. By optimizing the compressed air, a valuable contribution could be made to the long-term cost balance of the entire system - an aspect that plays a very central role for SPEICK Naturkosmetik. Two coalescence filters and a dust filter from KAESER Kompressoren ensure needs-based, reliable and energy-efficient compressed air treatment. SPEICK Naturkosmetik is very satisfied with the entire installation. "The system is set up in such a way that troubleshooting can be carried out very easily in the event of a pressure drop. The entire system could now be accommodated in a technical room. In addition, the compressed air optimization made it possible to reduce costs significantly," explains Steffen Hohaus, authorized representative at SPEICK Naturkosmetik, with satisfaction.



The new compressed air station could be accommodated in a technical room.
Picture source: Speick Naturkosmetik

AQUAPIPE - DESIGNED FOR OUTSTANDING PERFORMANCE

Stainless steel system for compressed air, vacuum, inert gases and industrial liquids

AQUAPIPE, a product brand of the Airpipe Group, offers a versatile stainless steel pipe system for compressed air, vacuum, industrial liquids and inert gases. The Airpipe Group has more than two decades of experience in the pipeline industry. AQUAPIPE is characterized by quick and uncomplicated installation and is committed to comprehensive system solutions. The system complies with ISO 8573-1 Class 1-1-1.

Good reasons for AQUAPIPE

- **High-quality stainless steel:**
AQUAPIPE uses high-quality stainless steel of quality class 1.4301/V2A, to ensure optimal performance and longevity.
- **Versatility for industrial media:**
The AQUAPIPE system is suitable for a variety of industrial media and applications
- **Optimal solution from 18 mm to DN 250**
AQUAPIPE offers a wide range of pipes, fittings and tools for an optimized solution that meets all the requirements of 18 mm up to DN 250.
- **Full compatibility with market standards:**
AQUAPIPE M-profile press fittings in dimensions 18 to 108 are compatible with the pipes and pressing tools from the market, ensuring seamless integration and flexibility.
- **Best value for money:**
With AQUAPIPE you get the best price-performance ratio on the market, without compromise on quality and performance.
- **Cost-effective and stable in price:**
AQUAPIPE offers cost-effective affordable solutions while maintaining price stability is guaranteed, which means long-term planning and budgeting made easier.



M-profile press connection 18 - 108 mm
Picture source: AIRpipe



The technology

- **DN 150 to DN 250**
AQUAPIPE enables quick assembly and reusability thanks to the innovative clamp connection. The latest technology guarantees a full flow without cross-flow incision narrowing. In addition, it guarantees a secure, firm connection. The wide NBR seal ensures that AQUAPIPE piping system is 100 % leak-free. Customers benefit from absolute reliability ease and longevity for your applications.
- **18 mm to 108 mm**
Benefit from the M-profile press fittings integrated NBR seals (EPDM and FKM seals available), resistant to oils and moisture, perfect for use with compressed air, vacuum, inert gases and industrial liquidities. You save with lightning-fast installation time and effort. Superior reliability and longevity are for different people applications guaranteed.



APPLICATIONS

- * Compressed air in the food sector
- * Cooling water / cooling lubricant
- * Machining oils
- * Automotive industry
- * Cooling water for packaging (DN250)
- * Compressed air, nitrogen, argon
- * Cooling water for LED production

THE NEW KAESER MEASURING TECHNOLOGY

The invisible becomes visible!

With the new KM series in the field of measurement technology, KAESER has achieved an innovative development in the world of compressed air technology. Intelligent sensors now offer comprehensive process data collection for your compressed air system. The sensors not only monitor the entire system, but also bundle data, analyze it and make it usable.

What does that mean for you?

If there are any irregularities in the system, you will be notified immediately so that you can act quickly. The compressed air management system SIGMA AIR MANAGER 4.0 also enables central monitoring and provides the important key figures.

Data analysis and visualization have never been so easy!

The technology from KAESER allows you to track exceeding and falling below limit values in real time. Defined parameters and KPIs offer comprehensive condition monitoring so that you always have an overview of your compressed air system.



The days of wasting energy are over! Thanks to the innovative KAESER measurement technology, the efficiency of your compressed air supply is always the focus. Targeted optimization of energy use has never been easier - you not only save resources, but also costs!

Be a pioneer in terms of efficiency and innovation - discover the KM series from KAESER now and revolutionize your compressed air system!

KAESER KM series - Intelligent process data acquisition

THE ADVANTAGES AT A GLANCE

- Real-time data collection
- Take into account all relevant measured values per measuring point
- Power over Ethernet (PoE)
- Easy data integration via SIGMA NETWORK

PROCESS DATA COLLECTION

- Real-time monitoring
- Data evaluation, key figure formation, monitoring, trouble shooting
- Understand and evaluate connections
- Monitor and examine the system

THE COMPRESSED AIR SYSTEM

- Uniform, high-quality sensor technology
- Easy installation and commissioning
- Certified products

CUSTOMER BENEFITS

- Energy saving potential becomes transparent and can be implemented specifically
- The exact determination of the actual conditions leads to the full utilization of energy saving potential
- Ensuring participation in KAESER continued developments in hardware and software

TIME IS CASH MONEY

How do you find the right filter element in no time?

This question is very easy to answer. A practical sticker from Hengst Filtration makes it possible to identify the right filter element at a glance. This allows machine operators and maintenance personnel to save time that they can use for other tasks.

A STICKER - THE PRACTICAL SOLUTION

Little things can often make the lives of machine operators and maintenance personnel of hydraulic systems unnecessarily difficult. An example of this is the nameplate on the filter housing, which is often so inconveniently placed that it is difficult to see or not accessible at all. This means that you have to look either in the system documentation or in old file folders - or even the old filter element needs to expand. This time-consuming process is simplified by a practical solution from Hengst Filtration:

Each filter element is provided with **a sticker** containing a **unique product key** and a **QR code** that leads directly to the Hengst Filtration website. The sticker also sticks to oil-wetted surfaces of the filter housing and provides a field for labeling the last change date. This ensures easy and clear identification of the filter element to be changed for future changes.

Since **the acquisition of Bosch Rexroth's hydraulic and lubricating oil filtration business in 2021**, the sticker includes both the current Hengst material numbers and the previous Bosch Rexroth material numbers to ensure that end users always find the right filter element. The filter elements can be easily ordered via the FILCOM online shop.



As standard, each filter element is accompanied by a sticker with a unique product key and a QR code for the Hengst Filtration website

Picture source: Hengst Filtration



More than 70 percent of all damage to hydraulic components or lubricated modules is caused by contaminated fluids.

Cornelius Böcher
Head of Sales at Hengst Filtration

TIME IS CASH MONEY

Filter elements play a crucial role in the service life and performance of hydraulic systems

Many well-known OEMs are convinced by Hengst Filtration and therefore integrate hydraulic filters as original equipment. This decision is based on the superior filtration performance of Hengst products, which helps to avoid warranty cases due to premature failure or wear of hydraulic components due to contamination in the fluid.

FILTER ELEMENTS WITH PURE POWER INCREASE SERVICE LIFE

In order to achieve **improved cleaning performance**, a **higher dirt holding capacity** and **increased pressure resistance**, the inner workings of the current filter element generation have been optimized. These improvements lead to longer filter element change intervals and reduce the frequency of hydraulic oil changes, which in turn reduces costs and conserves valuable resources. The filter elements with PURE POWER consist of an innovative six-layer material combination, including three inorganic microglass layers that ensure a high retention rate with minimal pressure losses, supplemented by an electrically conductive anti-static fleece.



Filter elements are easy to recognize: Practical sticker directly on the filter housing
Picture source: Hengst Filtration

Innovative in-line filter with patented cyclone effect

Hengst Filtration not only offers a variety of filter elements, but also a wide range of innovative filter housings, such as the **new in-line filter 250 LEN**. This uses the **patented cyclone effect**, which guides the incoming medium tangentially to the filter element, whereby coarse dirt particles are effectively separated and the service life of the filter is significantly extended. By combining the cyclone effect with filter elements with PURE POWER, significantly more particles are absorbed, while at the same time offering an outstanding retention rate and low differential pressure.



Hengst in-line filter type 250 LEN
Picture source: Hengst Filtration

In order to make operation easier even in times of shortage of skilled workers, Hengst Filtration **optionally integrates measuring connections with installed measuring couplings directly on the filter housing**. This measure allows end users to directly install sensors for pressure, temperature and particle counters and to integrate filtration into condition monitoring. This ranges from regular visual inspections by operators to networked measurement recording and evaluation in higher-level systems. This ranges from regular visual inspections by operators to networked measurement recording and evaluation in higher-level



Optimal filtration is the protection against damage to hydraulic components and guarantees a long service life.

Central systems on machine tools

Central systems for use on machine tools must meet a variety of requirements and face various challenges. This applies to both the handling of small to very small particles from the material removal and the tools, which are often used in 3-shift operation, as well as the filtration of different materials, which often have to be combined in the same coolant processing system.

In addition, these systems must constantly deal with temperature loads and at the same time meet the highest requirements for the purity and temperature resistance of the cooling lubricant. When using cooling emulsion, oil entry can also be important, which must be removed using effective oil separators. All of these aspects present both customers and suppliers with a variety of parameters and application criteria that need to be taken into account.

Know-how as a basis

The Belki Group from Denmark and its German partner, Belki Filtertechnik GmbH, have built a worldwide reputation as a leading provider and manufacturer of filter systems and oil separators for many decades. Their central systems also enjoy an excellent reputation for quality and performance.



Filtration with capacity

Belki central systems are designed exclusively according to the specific requirements of customers. Starting from a fundamental concept, central systems are designed and built that are both efficient, environmentally friendly and meet economic requirements. This is the only way to optimally address the often highly specialized needs and challenges in companies.

DEEP TECHNICAL UNDERSTANDING

This approach requires in-depth technical understanding and expertise in dealing with the process media used, such as grinding oil or aqueous cooling lubricant emulsions. Dosing, cooling, oil separation, particle filtration, degassing, redundancies and much more form the basis on which the experts build their individual solutions. The focus is on the optimal handling of these process media, followed by relieving employees in the production areas of tasks

connection with media maintenance as well as clear and simple operation of the systems. The emphasis on optimal accessibility is particularly well received.

CUSTOMIZED SOLUTIONS

If necessary, central systems can also be adapted to the specific structural conditions. Belki specializes in developing and producing additional equipment such as pump-back stations, collecting basins, inlet cascades, etc. quickly and efficiently in order to be optimally positioned.



Belki filter system BFA - modular filter system for filtering cooling lubricants
Picture source: Belki Filtertechnik GmbH

Modular filter systems

The modular BFA filter system from Belki was developed to filter cooling lubricants from machining processes. The filter system is flexibly configurable and can be equipped with various components such as magnetic filters, high-pressure pumps, oil separators and coolers as required.

Belki filter technology solution

Thanks to decades of experience in the filtration of liquid media, Belki Filtertechnik was able to sell such a modular filter system to a customer from the Lower Franconia area.

HOW THE BFA FILTER SYSTEM WORKS

In its basic configuration, the filter system for this customer consists of a BELKI deep-bed belt filter and an emulsion tank with a tank volume of 1,600 liters. Depending on customer requirements, pumps, magnetic filters and other components can be added. The pumps are activated via the machine control, and the pressure setting of the screw spindle pumps can be continuously regulated. Additional extensions such as oil separators, coolers and magnetic filters are possible and are particularly effective when processing cast iron.



Duplex filter Pi 370 from Filtration Group Industrial
Picture source: Belki Filtertechnik GmbH



View of the BFA filter system with FG duplex filter Pi 370
Picture source: Belki Filtertechnik GmbH

ADVANTAGES OF THE BELKI FILTER SYSTEM

Continuous filtration of the cooling lubricant offers numerous advantages in terms of quality, reliability and working environment. The modular design of the Belki filter system allows it to be adapted to individual customer requirements. It is also possible to subsequently expand the equipment to meet changing needs over the life of the machine or changes in the production process.

Arranging filters, pumps, etc. on a steel frame with lifting eyes makes assembly and cleaning of the filter system much easier. All components can be assembled in an elevator without the need to separate pipes or wires. This saves the customer time and simplifies the maintenance process.

The long-term availability and efficiency of systems is the key to high productivity and effectiveness. Thanks to the **FILCOM logistics concept**, the FG duplex filter could be delivered quickly to Belki Filtertechnik.

A duplex filter Pi 370 from Filtration Group Industrial takes on the function of the police filter for supplying the sensitive IKZ flushing of the processing center. The filter is equipped with wire mesh filter elements with a fineness of 25 µm.



Both companies see the collaboration between FILCOM GmbH and Belki Filtertechnik as a great advantage in promoting processes together and always being a step ahead of developments.

PRESSURE - LEVEL - FLOW

Welcome to TIVAL Sensors!

TIVAL Sensors GmbH was founded in 2005 and was founded by Dipl.-Ing. Hartmut Linde launched. The company's goals are clearly defined: striving for competent service, high-quality products and guaranteed short delivery times. A fair partnership with customers and partners is essential. The company originally started with mechanical pressure switches, and the FF4 series is still valued on the market today as a particularly robust quality product.

Electronic components of the automation technology

With the changing markets and technological progress, TIVAL Sensors GmbH is concentrating more and more on electronic components of automation technology.

TIVAL Sensors GmbH offers a variety of products, particularly in the area of water treatment, such as electronic pressure switches and pressure transmitters. The portfolio also includes devices for level monitoring and measurement as well as devices for flow recording, temperature measurement and other components.

The company has approvals for special applications such as hazardous areas, shipbuilding and fire protection, which makes the product portfolio even more versatile.



APPLICATIONS

- Water technology in general
- Hydraulics
- Shipbuilding
- Car washes for road and rail vehicles
- Gas station technology (storage tanks)
- Firefighting water technology
- AdBlue storage
- Compressed air
- Swimming pool technology
- Chamber filter presses
- High-pressure water jet technology
- Filter technology (tunnel construction)
- Groundwater monitoring
- Irrigation technology
- Agricultural machinery
- Wastewater technology (polymer preparation systems)
- Biogas technology and much more



Special approvals for shipbuilding make the portfolio even more versatile.

Pressure switch FF4

APPLICATION

- Compressed air technology
- Water technology
- Construction machinery
- Water extinguishing systems
- Oil pressure monitoring

DESCRIPTION

The TIVAL pressure switches from the FF4 series can be used universally. The devices can be used as follows:

- Monitoring and controlling the pressure of liquids and gases in pipelines, boilers, pressure containers and apparatus.
- Tasks in process control, cooling, compressed air technology and hydraulic applications
- Pressure monitoring of cooling and lubrication systems in different machines
- Automatic switching of compressor and pump motors e.g. for water supply, additional pumps, fire extinguishing equipment and compressed air systems

FUNCTION

The pressure of the medium to be monitored at the sensor presses against a flat membrane, a bellows or a piston (depending on the pressure range). A lever and spring system enables flutter-free switching with the help of a cascade jump switch. If there is no pressure on the sensor element, contact 1-2 is closed. This can be used as an "ON" signal for a pump or compressor.

When the pressure exceeds the upper switching point, contact 1-2 opens and contact 1-4 closes. The connected motor is switched off. Contact 1-4 is often used as an "OFF" switch.

Contact 1-2 is closed again when the pressure falls below the preset lower switching point. The upper and lower switching points can be adjusted independently using a screwdriver. Both switching points are easy to read on the scale.

Changeover with manual reset max.

If the pressure rises above the set value, contact 1-2 opens and contact 1-4 closes and locks. If the pressure has fallen below the set value, the contact can be unlocked using the manual reset button.



Pressure switch FF4 series
Picture source: TIVAL Sensors GmbH



Available variants

- Gold-plated contacts
- Cable glands M20 for protection class IP 65
- Viton membrane for aggressive media
- Manual reset for maximum pressure exceeded
- DNV - approved version
- UL / CSA - approved version
- ATEX - approved version
- VdS - approved version



THE ENTIRE WORLD OF

COMPRESSED AIR ■

FILTRATION ■

TECHNOLOGY. ■

 www.filcom.de

FILCOM GMBH

Schönbuchstr. 1
DE-73760 Ostfildern

T +49 (0)711 / 441 33 22-30

F +49 (0)711 / 441 33 22-22

E info@filcom.de