BOLL Automatic Filter
TYPE 6.46

efficient, economical

BOLL & KIRCH Filterbau GmbH
THE TASK
Effectively lubricating oil cleaning in heavy oil operation

The economic operation of small and medium-sized diesel engines and generators with heavy oil over a long period makes increased demands on the cleaning of lubricating oil. The quality of filtration of the lubricating oil is one of the factors determining its useful life, smooth engine operation and hence also the level of operating costs. The filters used for this purpose must

• have a precision that will guarantee a specific degree of cleanliness of the circulating lubricating oil,
• have a reliability that will ensure uninterrupted and trouble-free engine running during operation over a long period even in the case of variable engine and lubricating oil conditions,
• prolong the life of the engine, by protecting engine bearings and reducing wear on bearings,
• help to keep operating costs low, being maintenance-free, with long service lives,
• reduce the costs of the consumable materials used up to now,
• be more economical than double filters with paper cartridges.

Trusted by shipbuilders and marine engineers the world over: BOLLFILTERS.

The BOLL automatic filter TYPE 6.46 is equally suitable for vertical ...

... and horizontal fitting and installation
Separation of lubricating oil filtration and care.

**THE CONCEPT**

The BOLL automatic filter TYPE 6.46 fulfills the task of protecting engine bearings. The removal of combustion residues from the lubricating oil is carried out by a separator or another auxiliary flow treatment section. This process is accomplished either by a perfect filtration result, but also by the best possible operating behavior. In high precision construction, it is technically simple and robust. The BOLL automatic filter TYPE 6.46, which can be mounted horizontally or vertically as an attachment or plug-in filter, has a housing made from grey cast iron. The BOLL automatic filter TYPE 6.46 is available in various sizes with nominal diameter ranging up to 190 mm and can be best adapted to engine manufacturers’ special requirements.

**THE SOLUTION**

Uninterrupted filtration, automatic backwashing.

The BOLL automatic filter TYPE 6.46 demonstrates its superiority not only by a perfect filtration result, but also by the best possible operating behavior. In high precision construction, it is technically simple and robust. The BOLL automatic filter TYPE 6.46, which can be mounted horizontally or vertically as an attachment or plug-in filter, has a housing made from grey cast iron. The BOLL automatic filter TYPE 6.46 is available in various sizes with nominal diameter ranging up to 190 mm and can be best adapted to engine manufacturers’ special requirements.

During the filter operation, the lubricating oil to be filtered passes through the inlet flange into the housing section. A partial flow of ca. 50% of the unfiltered oil is fed via the central pipe into the upper part of the filter housing and into the filter candle. The backflushing medium is then fed to the filter outlet and is fed back to the engine.

To protect the filter mesh, a fine protective mesh is equipped as a second filter in the filter candle. This fine protective mesh is equipped as a second filter in the filter candle. This fine protective mesh is opened and the lubricating oil is filtered via a protective mesh incorporated as a second filter stage. However, before this stage is reached, the differential pressure is increased to the filter mesh. This differential pressure indicator will register the disturbance and trigger an alarm if it continues.

**THE DETAILS**

Quality thanks to specialization

BOLL & KIRCH concentrates exclusively on the design and manufacture of liquid/solid separation filters. Most BOLL FILTERS are the result of our own research and development and are protected by patents. Customers can take advantage of our knowledge by involving our technicians and engineers in the early phases of their projects. Focusing the knowledge of both partners in simultaneous engineering ensures a perfect result. The global presence of BOLL & KIRCH in all important industrial centers guarantees customers worldwide reliability and service expected of suppliers in this technologically advanced filter systems. Service includes dispatching BOLLFILTER genuine parts all over the world within 24 hours.

**BOLL automatic filter TYPE 6.46**

Automatic filter with cross-flow back flushing

- **Areas of application**: Filtration of lubricating oil in small and medium-sized diesel engines.
- **Operating pressures**: 2 – 15 bar
- **Differential pressure resistance**: 0.5 bar
- **Operating temperature**: Max. 180°C
- **Housing material**: Cast iron
- **Inlet, grade of filtration**: 10 micro
- **Filter candle type**: Cardano surface filter
- **Backflushing control**: Manual
- **Optional accessories**: Lube oil filter units, integrated regulating valve, housing, preparation for inserting attachment, valves, mounting supports and pipes.

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The BOLL automatic filter TYPE 6.46 demonstrates its superiority not only by a perfect filtration result, but also by the best possible operating behaviour. Its high-precision construction is extremely simple and robust. The BOLL automatic filter TYPE 6.46, which can be mounted horizontally or vertically as an attachment or plug-in filter, has a housing made from grey cast iron. The BOLL automatic filter TYPE 6.46 is available in various sizes with nominal diameters ranging from DN 50 to DN 125 and can be easily adapted to engine manufacturers' special requirements.

During the filter operation, the lubricating oil is filtered through the filter candle, which is open at both ends. From below, the other half flows from below into the filter candle. The filter candle mesh makes it possible to have filtration grades of up to 25 micron. The cleaned lubricating oil passes through the additional protective mesh to the filter outlet and is fed back to the engine. The candles are cleaned continuously and in sequence, with no interruption to the filtration process. A turbine mounted in the inlet flange drives the flushing arm continuously from filter candle to filter candle. A high surface cross-flow occurs on the inside of the candle which are separated through the flushing process. In addition the reduced pressure inside the candles produces a counter-flow of the cleaned oil from the outside of the filter candle back to the inside. These flows effect a thorough cleaning of the layer of dirt which has built up on the inside of the candle, whilst protecting the filter mesh from backwashing over a long period is achieved with small quantities of flushing oil and pressure are used in the operating pressure. Inspection glass on the cover is provided for operating check of carbon filtration.

If the filter candle cleaning operation is detained automatically, the differential pressure reaches a barrier or another auxiliary flow treatment section. This is controlled by an additional protective mesh of up to 25 micron. In both cases, the BOLL automatic filter TYPE 6.46 is characterised by even and continuous backflushing of the filter candles. Without any external energy or medium, it works completely independently, and achieves constantly good cleaning effects. With the added advantage of extremely low expenditure on spare parts and maintenance.

The candles are cleaned continuously and in sequence, with no interruption to the filtration process. A turbine mounted in the inlet flange drives the flushing arm continuously from filter candle to filter candle. A high surface cross-flow occurs on the inside of the candle which are separated through the flushing process. In addition the reduced pressure inside the candles produces a counter-flow of the cleaned oil from the outside of the filter candle back to the inside. These flows effect a thorough cleaning of the layer of dirt which has built up on the inside of the candle, whilst protecting the filter mesh from backwashing over a long period is achieved with small quantities of flushing oil and pressure are used in the operating pressure. Inspection glass on the cover is provided for operating check of carbon filtration.

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The BOLL automatic filter TYPE 6.46 fulfils the task of an indicator filter due to its function of an indicator filter. In both cases, the BOLL automatic filter TYPE 6.46 is characterised by even and continuous backflushing of the filter candles. Without any external energy or medium, it works completely independently, and achieves constantly good cleaning effects. With the added advantage of extremely low expenditure on spare parts and maintenance.

The BOLL Concept separates filtration from lubricating oil care. The BOLL automatic filter TYPE 6.46 fulfils the task of a lubricating oil filtration in the best possible way. It can be fitted directly to the engine as a main flow filter. Another solution is to incorporate it in the plant's pipe system, possibly with additional flushing oil treatment. A solution has proved to be advantageous both with regard to operational safety and from the point of view of economy.

In summary form

The concept

Separation of filtration and lubricating oil care

The solution

Uninterrupted filtration, automatic backflushing

The details

Quality thanks to specialization

THE COMPLETE OFFER

BOLL & KIRCH concentrates exclusively on the design and manufacture of liquid-solid separation filters. With BOLL-FILTERS the result of our own research and development and are protected by patents. Customers can take advantage of our technical expertise and the know-how and experience of our technicians.

质量安全保证服务

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THE DETAILS

BOLL automatic filter TYPE 6.46

A turbine, with cross-flow backflushing

Area of application

Any type of centrifugal or turbomachines used for liquid engines

Operating pressures

2 – 10 bar

Differential pressure resistance

Minimum differential pressure

Operating temperature

Max. 100°C

Housing material

Grey cast iron

max. grade of filtration

25 micron

Filter candle type

candles open at both ends

Backflushing control

Continuous, turbo-driven

Cleaning method

Individual candles –rotary/flooding/corrosive cleaning

Optional accessories

Baffle or outlet valve; integrated regulating valve housing; preparation for measuring attachments, consoles, mounting supports and pipes.

Tabulate

Infl./Outlet

DN 25

DN 65

DN 80

DN 100

DN 125

DN 150

Cold throughput

in m3/h min.

1.2

1.2

1.3

2.5

4.5

4.5

Operating pressures

2 – 10 bar

Differential pressure resistance

Minimum differential pressure

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During the filter operation, the lubricating oil to be filtered flows through the filter candle. The cleaned lubricating oil passes through the additional protective mesh into the central pipe in the mesh insert into the upper part of the housing and into the filter outlet and is fed back to the engine. The other half flows from below into the filter candle. The filter candle mesh makes it possible to have filtration grades of up to 25 micron. The cleaned lubricating oil passes through the additional protective mesh to the filter outlet and is fed back to the engine. The candles are cleaned continuously and in sequence, with no interruption to the filtration process. A turbine mounted in the inlet flange drives the flushing arm continuously from filter candle to filter candle. A high surface cross-flow occurs on the inside of the candle which are separated through the flushing process. In addition the reduced pressure inside the candles produces a counter-flow of the cleaned oil from the outside of the filter candle back to the inside. These flows effect a thorough cleaning of the layer of dirt which has built up on the inside of the candle, whilst protecting the filter mesh from backwashing over a long period is achieved with small quantities of flushing oil and pressure are used in the operating pressure. Inspection glass on the cover is provided for operating check of carbon filtration.

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In summary form

The concept

Separation of filtration and lubricating oil care

The solution

Uninterrupted filtration, automatic backflushing

The details

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**The Concept**

Separation of filtration and lubricating oil care.

The BOLL Concept separates filtration from lubricating oil. The BOLL automatic filter TYPE 6.46 keeps all solids away from the bearings. Instead of combination resistance from the lubricating oil, on the other hand, it is carried out by a separate or another auxiliary filter treatment section. This solution has proved to be advantageous both in regard to operational safety and from the point of view of economy.

The BOLL automatic filter TYPE 6.46 is characterised by even and continuous backflushing of the filter candles. Without any external energy or medium, it works completely independently, and achieves consistently good cleaning effects, with the added advantage of extremely low expenditure on spare parts and maintenance.

The candles are cleaned continuously and in sequence, with no interruption to the filtration process. A suction arm, mounted in the inlet flange, drives the backflushing mechanism. It moves the flushing arm continuously from filter candle to filter candle. A high surface cross-flow occurs on the inside of the candles which are separated throughout the flushing process. In addition the reduced pressure inside the candles produces a counter-flow of the cleaned oil from the outside of the filter candle back to the inside. These flows effect a thorough cleaning of the layer of dirt which has built up on the inside of the candle, whilst protecting the filter mesh from backflushing over a long period (achieved with small quantities of flushing oil and pressure in the operating pressure. Inspection glass on the cover is provided for operating check of backflushing.

In both cases, the BOLL automatic filter TYPE 6.46 demonstrates its superiority not only by a perfect filtration result, but also by the best possible operating behaviour. In high precision construction it is constructed simple and robust. The BOLL automatic filter TYPE 6.46 can be mounted horizontally or vertically as an attachment or plug-in filter. It has a housing made from grey cast iron. The BOLL automatic filter TYPE 6.46 is available in various sizes with nominal diameters up to 150 mm and can be easily adapted to engine manufacturers’ specific requirements.

**The Solution**

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The BOLL automatic filter TYPE 6.46 demonstrates its superiority not only by a perfect filtration result, but also by the best possible operating behaviour. In high precision construction it is constructed simple and robust. The BOLL automatic filter TYPE 6.46 is available in various sizes with nominal diameters up to 150 mm and can be easily adapted to engine manufacturers’ specific requirements.

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If the filter candle cleaning operation is disturbed or interrupted, once the differential pressure reaches 2 bar, overflow valves open and the lubricating oil is filtered via a protective mesh incorporated as a second filter stage. However before this stage is reached, the differential pressure indicator will register the disturbance and trigger an alarm if it continues.

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**THE COMPLETE OFFER**

Commercial production on CNC and DNC controlled precision tools.

Service and repair systems for smooth and effective production.

BOLL FILTER genuine parts leave the factory within 24 hours.

**THE TABLE**

<table>
<thead>
<tr>
<th>Application</th>
<th>Filter Candle</th>
<th>Filter Candle</th>
<th>Filter Candle</th>
</tr>
</thead>
<tbody>
<tr>
<td>Area of application</td>
<td>3 5 7 10 22</td>
<td>3 5 7 10 22</td>
<td>3 5 7 10 22</td>
</tr>
<tr>
<td>Nominal Diameter</td>
<td>50 65 80 100 125 150</td>
<td>50 65 80 100 125 150</td>
<td>50 65 80 100 125 150</td>
</tr>
<tr>
<td>Operating Pressure</td>
<td>2 10 bar</td>
<td>2 10 bar</td>
<td>2 10 bar</td>
</tr>
<tr>
<td>Differential Pressure Resistance</td>
<td>2 10 bar</td>
<td>2 10 bar</td>
<td>2 10 bar</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>Max. 150°C</td>
<td>Max. 150°C</td>
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</tr>
<tr>
<td>Housing Material</td>
<td>nodular cast iron</td>
<td>nodular cast iron</td>
<td>nodular cast iron</td>
</tr>
<tr>
<td>Series of Filtration</td>
<td>24 minutes</td>
<td>24 minutes</td>
<td>24 minutes</td>
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<tr>
<td>Filter Candle Type</td>
<td>candles opened to both ends</td>
<td>candles opened to both ends</td>
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<tr>
<td>Anti-clogging Protection</td>
<td>own medium</td>
<td>own medium</td>
<td>own medium</td>
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<tr>
<td>Backflushing Control</td>
<td>continuous, turbo-driven</td>
<td>continuous, turbo-driven</td>
<td>continuous, turbo-driven</td>
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<tr>
<td>Cleaning Mode</td>
<td>individual candles, separate flush/cleaning housing</td>
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<td>Optional Accessories</td>
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<td>Motor</td>
<td>0.5 2 5 7 10 22</td>
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<tr>
<td>Output m³/h min.</td>
<td>18 32 48 78</td>
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<td>Maximum differential pressure</td>
<td>20 30 40 50 60 70</td>
<td>20 30 40 50 60 70</td>
<td>20 30 40 50 60 70</td>
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<tr>
<td>Leakage testing point at 1 bar</td>
<td>1.2 1.2 1.2</td>
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<tr>
<td>Leakage testing point at 2 bar</td>
<td>2.6 2.6 2.6</td>
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<td>Gasket material</td>
<td>steatite, graphite, NBR</td>
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THE ADVANTAGES  
Economically and ecologically trend-setting

In economic terms, the best is always the result of “as much as possible” for “as little as necessary”. Where the use of lubricating oil is concerned, this means: consistent, precise filtration and regeneration of the lubricant with minimal losses, a requirement for a forward-looking business. One-off investment in high quality filter systems becomes more cost-effective with increased service life and improved protection of rotating machinery. And even in the majority of existing plants, expansion and improvement is possible when replacement time comes along.

BOLLFILTERs consistently remove dirt particles from contaminated liquid and recycle cleaned liquid back into the process. They help to ensure the plant’s operational safety continuously over a long period. This saves resources, protects the environment and reduces costs. BOLLFILTERS are the best insurance for the product and the process.
A new addition to the lubricating oil automatic filter range is the TYPE 6.64, whose special features include differential-pressure control and external medium supported backflushing.

For further information, see the BOLL automatic filter TYPE 6.64 brochure.