Filtration solutions in offshore applications

Filtration systems for the oil and gas industry
Diversified and demanding:  
Filtration tasks in the oil & gas industry

Filtering liquid or gaseous media is essential in various sub-processes of the oil and gas production and processing. Filtration systems used here have to meet highest demands as due to the operating conditions they are exposed to extremely heavy duty:

- They have to filter large flow rates.
- They have to be resistant against aggressive environmental influences and aggressive influences of the media to be filtered.
- They have to reliably remove high-grade contaminations of the media to be filtered.
- They have to precisely reach exactly defined grades of filtration.
- They have to operate trouble-free in case of extreme and extremely fluctuating temperatures and pressures.
- Due to potential danger of accident they have to comply with highest safety standards.
- They have to operate trouble-free over a long period of time.

Therefore, in this branch of industry only filtration systems with maximum material quality and workmanship as well as highest functional reliability may be used.

In the oil & gas industry high-performance filtration systems are required for offshore as well as onshore applications.
BOLL & KIRCH is a world-leading specialist for the filtration of liquids and gases on a large scale and has been successfully developing, designing, producing and supplying filtration systems for decades.

In close cooperation with the filter users, teams of experts from various fields of competence with detailed knowledge of the typical, important and crucial demands, develop solutions and systems optimally fitted to the particular task.

The company is world market leader for filtration technology in the ship and engine construction sector and supplies leading manufacturers with systems used for treatment, processing, cleaning, conveying and compressing of water, fuels, lubricants, chemicals and gases.

Competent and qualified:
BOLL & KIRCH Filterbau GmbH

BOLL & KIRCH product range covers each of these tasks and fields of application offering a filter specially-designed to the customer’s requirements. BOLLFILTERs show their technical and functional advantages as well as their highly valued reliability on FPSO-vessels under topside, propulsion and subsea operating conditions.

BOLL FILTER product range covers each of these tasks and fields of application offering a filter specially-designed to the customer’s requirements. BOLLFILTERs show their technical and functional advantages as well as their highly valued reliability on FPSO-vessels under topside, propulsion and subsea operating conditions.

Filtration unit for injection water with three BOLLFILTER Automatic type 6.18, DN 400

Produced water unit with BOLLFILTER Automatic type 6.18, grade of filtration 50 micron

Lubricating oil unit for compressor station with BOLLFILTER Duplex type BFD-P

Wärtsilä diesel engine with BOLLFILTER Automatic type 6.46 for the filtration of lubricating oil

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**BOLLFILTER**

**Duplex**

**TYPE BFD**

Lube oil, fuel oil (HFO, LFO), water

DN 25 – DN 150

1 µm – 5 mm

**BOLLFILTER**

**Duplex**

**TYPE BFD-C DBB**

Gas

DN 20 – DN 150

0.5 µm – 250 µm

**BOLLFILTER**

**Simplex**

**TYPE BFB-P/-C**

Gas, lube oil, fuel oil (HFO, LFO), water

DN 26 – DN 200

0.5 µm – 250 µm

**BOLLFILTER**

**Simplex**

**TYPE 1.65.1**

Lube oil, fuel oil (HFO, LFO), water, other liquids (e.g. methanol, glycol)

DN 65 – DN 350

10 µm – 5 mm

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* Gas filtration with coalescing separation optional with demister
Approved and certified:  
BOLLFILTERs meet highest quality requirements

BOLL & KIRCH has been approved and certified for the construction of pressure tanks by all classification societies. The products have been accredited by:

- ABS - American Bureau of Shipping
- BV - Bureau Veritas
- CCS - China Classification Society
- CR - China Corporation Register of Shipping
- DNV - Det Norske Veritas
- GL - Germanischer Lloyd
- KR - Korean Register of Shipping
- LR - Lloyd’s Register
- MRS - Maritime Register of Shipping
- NKK - Nippon Kaiji Kyokai
- PRS - Polski Rejestr Statkow
- RINA - Registro Italiano Navale
- TÜV - German Technical Inspection Authority
- UDT - Urzad Dozoru Technicznego

Filter housings for offshore applications are made from rubber-lined carbon steel, SMO Steel, Duplex and Superduplex Steel. All fittings and internal parts are produced from Monel, SMO and Duplex-/ Superduplex Steel as well as Uranus B6 and Hastelloy.

The filter design complies with the following standards:

- PED 97/23/EG / AD 2000
- ASME VIII div. 1
- ASME VIII div. 1 with U-stamp
- PD 5500
- EN 13445
- CODAP
- AS 1210

Global presentation and worldwide presence:  
BOLL & KIRCH branch network and service stations

BOLL & KIRCH is worldwide present and operates a tight network of agencies and subsidiaries around the globe. Our entire service pledge - cooperation for project development, punctual delivery, product-related services and fast, reliable supply of Genuine Parts applies around the globe:

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