

Filter Candle Guide 2020

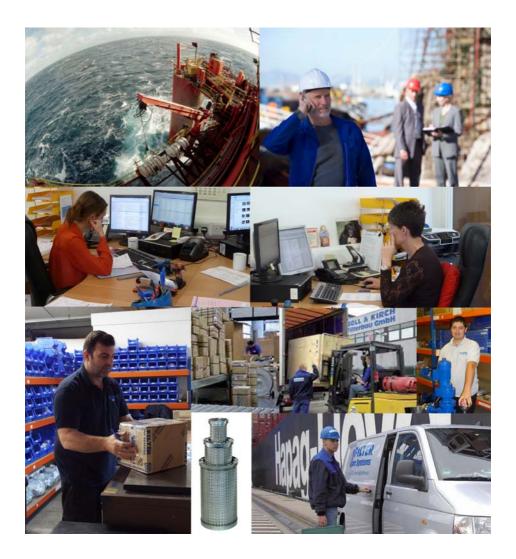
Caring for your Filter Candles and Elements



Maximise the efficiency of your filter and prolong the life of your candles and elements with careful handling and cleaning

Great filters by great people. Great people buy great filters

2 Filter Candle Care Guide 2020



The Filter Candle Care Team

Caring for your Filter Candles and Elements

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4 Introduction to Candle Care

If handled and cleaned correctly, Bollfilter candles have a long trouble-free life. To help engineering and maintenance staff take care of their Bollfilters correctly, we've prepared this simple booklet, which covers how to identify spare parts and clean the filter candles.

Identifying Essential Information

To help us help you get the correct information quickly. It is essential we can identify the filter. Providing us with the information below will help ensure a speedy response with the right parts or information.

Nameplate on Boll-Filters							
Each BOLLFILTER is equipped with a nameplate							
important	Typ Type 6.61	LL & KIR erbau Gm DN 200	СН	D-50170 Kerpen-Sindorf			
(when ordering spare parts,	Fabr. No. 3872 Baujahr Year of manufacturing max.zul. Druck	198/2 2008 Filterraum Filter room] _	F <u>10</u> Heizraum Heating room	 µm ~		
service, documents etc.)	max.allowable pressure min./max.zul. Temperatur min./max.all. temperature Volumen	10 100 150	bar C I		bar °C		
	CE			25 8 8	008		

Meet the Spares Team 5



Janine Harris

Head of Spares Department, has been at BOLLFILTER UK for 27 years. She started as an office junior, progressing onto becoming secretary to the then Managing Director, John Dow, which is when she pretty much learnt her trade, eventually going on to manage the Spares Department.Today, she is now permanently on the road, focusing on visiting customers, contract proposals, technical enquiries and new sales growth.

Laura Morgan

Deputy Spares Manager, has worked for BOLLFILTER UK for 13 years since leaving school. She is responsible for sending quotations to customers, processing orders and organising deliveries. She is often complimented by customers for her efficiency and outstanding customer service.

Contact: 01621 862184 laura@bollfilter.co.uk

Contact: 01621 862183 janine@bollfilter.co.uk



Alex Reade

The Warehouse Manager, he started working at BOLLFILTER UK in November 2018. He runs the company warehouse, despatching and receiving goods. Alex comes from a logistics background, managing goods at freight companies. He also worked at an auction house.

Contact: 01621 862180 alexr@bollfilter.co.uk

6 Meet the Service Team



Liam Fitzpatrick

Liam Fitzpatrick, is the Senior Service Engineer and has been with the company since July 2009. He carries out planned service work in numerous industry fields worldwide; these include shipping, steel works and water treatment.

Contact: 01621 731994 liam@bollfilter.co.uk



Alex Wood

Alex Wood, joined the Bollfilter UK team in September 2013. Alex is a Service Engineer. He carries out planned service work in numerous industry fields worldwide; these include shipping, steel works and water treatment.

Contact: 01621 731991 alex@bollfilter.co.uk



Chris Ludlow

Chris Ludlow, joined the Bollfilter UK team in February 2018. Chris started with a six month service engineer training period where he undertook both on the job training and official training at our head office in Germany. He is now fully trained and attends service work all over the world.

Contact: 01621 862180 chris@bollfilter.co.uk

Types of Filter Elements 7



Basket element (1) The basket element is suitable for coarse filtration or for minor contamination. The dirt collects in a basket-shaped filter insert and can be easily removed for cleaning.

Ring filter element (2) The ring filter element is similarly constructed to the basket element, but has an additional concentric mesh cylinder, increasing the filter area by about 30%

Multi-mantle element (3) The multi-mantle element insert consists of several cylindrical filter mantles. These provide a large filter surface for only a small space requirement and permits the employment of fine-meshed cloths. Filtration takes place from the outside in.

Star-pleated element (4) The star-pleated element has a large filter surface yet a small diameter due to the pleating of the filter element. This makes long cleaning intervals possible and the use of fine meshes with low pressure losses.

Filter candle insert (5) This insert contains several mesh candle elements of the same size and mesh connected in parallel. This gives a large filter surface with a very compact design. The filter candles are outstanding for their particularly high resistance to differential pressure.

Filter candle insert for backflushing filters (6) As in the ordinary filter candle insert, several filter candles are screwed into a single candle holder. The holder is fixed to the filter housing and remains there during backflushing in the filter chamber.

Filter cartridge (7) The filter cartridge consists of non-woven pleated plastic, glass fibre or paper element. It is capable of filtering very fine dirt particles.

8 Candle Elements for Automatic Filters



Candle Elements for Automatic Filters

The filter element is the main component of every filter. It essentially consists of a supporting body and the filter media which is fitted into it. Various designs provide differing sized filtration surfaces. The required degree of filtration and cleaning can be achieved for every medium with the ideal combination of core components.



Basket element

The basket element is suitable for coarse filtration or for minor contamination. The dirt collects in a basket-shaped filter insert and can be easily removed for cleaning.

10 Ring Filter Element



Ring filter element

The ring filter element is similarly constructed to the basket element, but has an additional concentric mesh cylinder, increasing the filter area by about 30%.

Multimantle Element 11



Multi-mantle element

The multi-mantle element insert consists of several cylindrical filter mantles. These provide a large filter surface for only a small space requirement and permits the employment of fine-meshed cloths. Filtration takes place from the outside in.

12 Star Pleated Element



Star-pleated element

The star-pleated element has a large filter surface yet a small diameter due to the pleating of the filter element. This makes long cleaning intervals possible and the use of fine meshes with low pressure losses.

Disposable Elements 13



Disposable elements

The filter cartridge consists of non-woven pleated plastic, glass fibre or paper element. It is capable of filtering very fine dirt particles.

14 Particle / Coalescence Element





Particle / coalescence element

The high-quality, extremely durable particle and coalescence elements are used for gas filtration and coalescence separation in chemical, petrochemical plant, the offshore sector and power stations.

Filter Candle Element 15



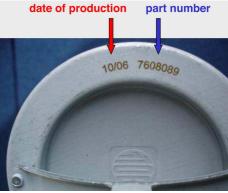
Filter candle element

This insert contains several mesh candle elements of the same size and mesh connected in parallel. This gives a large filter surface with a very compact design. The filter candles are outstanding for their particularly high resistance to differential pressure.

16 Filter Element Marking

BOLLFILTER Paper Cartridge Features and Markings





BOLLFILTER Candle Features and Markings



Spring Loaded Candle markings

BATCH Number

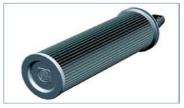
PART Number

BOLL Trademark



Each element of a BOLLFILTER is marked with the BOLL trademark





Filter Element Marking 17

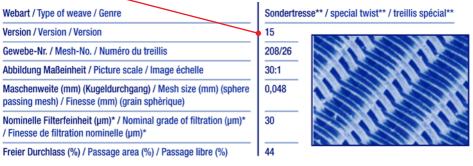
BOLLFILTER Elements / Marking



A 6-digit code number stamped on the element along with the BOLL trademark guarantee 100% 'Bollfilter Genuine Parts' quality.

First 4 digits: month and year of manufacture. The last 2 digits are the code number of the filter mesh.

Stamping "15" means mesh 208/26:0.048mm mesh size.



Quotes 01621 862180 spares3@bollfilter.co.uk

18 Identifying Filter Mesh Type on Filter Candles

6-digit code number stamped on the element along with the BOLL trademark guarantee 100% 'Bollfilter Genuine Parts' quality.

First 4 digits: month and year of manufacture. The last 2 digits are the code number of the filter mesh.

Stamping "19" means mesh 294/31: 0.034mm mesh size.



BOLLFILTER Multi mantle Element markings



Automatic Filter Venting Assembly 19



Available as complete unit or individual parts



20 Controllers, Flow Gauges, Valves & Switches



Control valves

Type 2300 Control Panel

New panel Type 2300 now available This will slowly phase out the 2200

How to programme the 2200/2300 video: Contact details below to get permission to view

video or request a copy of the video.

For further details please contact us

Telephone: 01621 862180 email: spares3@bollfilter.co.uk



Differential Pressure Indicator (DPI) 21



Differential Pressure Indicator (DPI) opened up to show the component parts



Filter outlet "clean side" Filter inlet "dirty side"

How to overhaul this DPI

video: Contact details below to get permission to view video or request a copy of the video.

22 Genuine replacement paper filters



Disposable Cartridges

P451 Filters



5PS50 Filters

Bollfilter UK 'O' ring and Gasket selection 23



0 ring set



Vent set seals



Diaphragm for DPI

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24 The Essential Toolkit



Candle Removal Key

Motor Hand Crank



Control Panel Key

Boll 5.04 Cleaning Unit 25

To properly clean your elements use this system



To efficiently regenerate filter elements that have become ingrained with contaminants, and secure full functionality, it is recommended to manually clean the filter mesh from time to time.

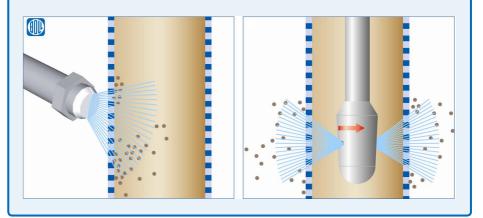
Optimum results are achieved by using the BOLL high-pressure cleaning unit type 5.04 in combination with the special cleaning fluid BOLLCLEAN 2000. The unit is suitable for both the cleaning of individual filter elements and for complete filter inserts. Moreover, it can be used for the cleaning of other small parts.

Left Lance 5.02

For most general cleaning applications

Right Lance 5.01

With rotary nozzle, particularly suitable for cleaning screw-in and plug-in candles with heavy contamination



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26 Boll 5.04 Cleaning Unit





Cleaning of Filter Elements

Boll & Kirch Cleaning Lances

Using the Boll and Kirch cleaning lances in combination with a high pressure water jet gives the best results in cleaning efficiency





Cleaning Unit BOLL Ultrasonic TYPE 5.05 27

Ultrasonic cleaning is the simple, clean and effective method



Fine cleaning method for contaminated filter elements with sieve meshes. Highly energetic liquid jets remove virtually all ingrained dirt particles from the mesh of the filter screen. Ultrasonic cleaning is the simple, clean and effective method to restore filter meshes to their original filtration level, open condition.

The cleaning process is easy and trouble free. Ultrasonic waves emitted from two sides remove the dirt particles from the mesh of the filter screen. The removed contamination falls out of the lower, open end of the filter element.

VERSATILE, ROBUST AND EASY TO MAINTAIN

Two different frequencies are available, one for a primary cleaning (25 kHz) and one for a gentle fine cleaning (45 kHz). A programmable sweep function uses permanent acoustic modulation to ensure even distribution of energy to deliver consistent cleaning results.

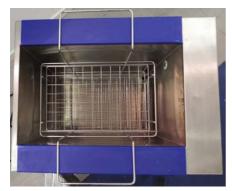
Due to its construction and functionality the filter element cleaning unit can be used under various operating conditions, is easily maintained and because of its robust stainless steel structure it withstands even intensive usage.

REDUCE COSTS, SAVE THE ENVIRONMENT

The unit is designed to facilitate stable fastening on board ship, even in rough sea. The bevelled tank bottom allows for quick and complete draining of the spent fluid. The entire control unit is placed in a compact module. For reasons of maintenance it can be replaced quickly and without special knowledge.

28 Cleaning Unit BOLL Ultrasonic TYPE 5.05







Above left Heating goes on Right Ultrasonic then goes on

Modern BOLLFILTER 5.05 Unit with many updated features for 2016







Dirty Candle

Left

Right Cleaning in action



Cleaning Unit BOLL Ultrasonic TYPE 5.05 29



Candles from BOLL 6.46 Lube Oil Filter encrusted with Oil sludge before cleaning



Candles after 8 hours cleaning, the Oil sludge has now gone

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BOLLFILTER UK Filter Candle Guide

Request a call from one of our team

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Great filters by great people. Great people buy great filters