Doulton

Drinking Water Filters

Healthy water, healthy life.

A Quality Product
Made in England

Clean, healthy, great-tasting water **anytime, anywhere.**

Doulton® provide customers, whatever their situation, with top quality, UK manufactured water filters that perform consistently every time and gives them clean, healthy,
great-tasting water anytime, anywhere.

Brand

Doulton® water filters have now been manufactured continuously in the UK for more than 185 years. In the 19th Century, the River Thames was London's main water supply… and sewer. Henry Doulton discovered that filtering water through a porous ceramic could stop people becoming sick from cholera and other water-borne diseases.

Fairey Industrial Ceramics Limited (FICL) is the sole manufacturer of the world famous range of Doulton® ceramic drinking water filters. All ceramic water filter products are manufactured in FICL's factory based in North Staffordshire, UK, the traditional home of the ceramic industry in England.

Quality

In general, the smaller the pore size of a filter and the more complicated the path the water takes through the filter medium, the more effective it is at removing particles from water. A ceramic has a small and complex pore structure, making it an ideal filter medium.

The pore structure of Doulton® ceramic drinking water filters is accurately controlled. This expertise gives the candles the highly consistent pore structure necessary to remove a wide range of water borne contaminants over the life of the filter.

All stages of FICL's drinking water filter production process adhere to the stringent BS EN ISO 9001 quality standards. FICL holds the coveted NSF® and WRAS certificates, demonstrating that our drinking water filters have passed the highest international testing standards.

Our high quality standards are why the Doulton® brand name is so well known and respected for use in home water filtration systems around the world. Customers can, as a result of our exacting standards, expect the same high quality from our filters every time they are used.

Performance

Millions of ceramic filter candles are produced annually, which sell to 140 countries worldwide. This global success is because Doulton® drinking water filters are so versatile – they will do a job on any water supply:

- **Highly effective barrier to particles and pathogens** a pore structure down to 0.2 microns to offer maximum protection
- **Long Life / Long term value** the filters may be cleaned, when used on turbid water, which allows re-use and gives 6-12 months life
- **Natural** the ceramic is made from 100% natural earths and uses coconut shell carbon
- **Minerals maintained** the filters do not remove those minerals from the water which are beneficial to health
- **Enhanced anti-bacterial properties** FICL's ceramics contain trace elements of silver to inhibit microbiological growth within the ceramic element
- **Multi-stage filtration in one cartridge** other filter media can be put inside the ceramic filter candle. Activated carbon can be incorporated to remove chlorine, or an ion exchange media to remove heavy metals such as lead

Price

Bottled water is expensive to buy, produces a lot of plastic waste, and the carbon footprint of transporting those bottles of water is enormous.

- **Healthy water that doesn't cost the Earth**
  Installing a filter system offers a much greener as well as cheaper alternative way of drinking good quality water.

Continuing the revolution in **Ceramic Filtration Technology.**

Filter Grades

Doulton® ceramic filter elements are available in 6 grades. The grade you ultimately choose will depend on which contaminants you want to remove from the water.

At the heart of every Doulton® water filter candle is a Sterasyl® silver impregnated ceramic microfilter.

The incorporation of silver locked within the ceramic structure inhibits the growth of bacteria on the filter, eliminating the need for boiling.

By incorporating activated carbon in the form of granular carbon or carbon block, the Sterasyl® ceramic can also be produced in Super Sterasyl®, Supercarb® and Chlorasyl® grades which combine the advantages of ceramic and carbon treatment within a single filter element.

At the top end of the product range the ATC Super Sterasyl® and Ultracarb® candles have an additional ion exchange media which reduces Lead and other harmful heavy metals.

The Supercarb SI® and Ultracarb SI® candles also incorporate a slow release scale inhibitor to reduce the unwanted effects of scale build-up.

Filter Performance

Verified by independent laboratories

Candle Grade 49mmø **Selection of the most appropriate grade of candle allows filter performance to be matched to the requirements of the local water conditions.**		**Sterasyl®** Silver impregnated ceramic microfilter	**Super Sterasyl®** Sterasyl® microfilter plus granular activated carbon	**ATC Super Sterasyl®** Sterasyl® microfilter plus granular activated carbon and lead removal media	**Supercarb®** Sterasyl® microfilter plus carbon block core	**Chlorasyl®** Sterasyl® microfilter plus carbon block core	**Ultracarb®** Sterasyl® microfilter plus carbon block core and lead removal media
Filtration Rating (% particulate filtration efficiency)							
	Absolute (defined as >99.99%)	0.9 micron	0.9 micron	0.9 micron	0.9 micron	0.9 micron	0.9 micron
	Nominal (defined as >99.9%)	0.5 to 0.8 micron	0.5 to 0.8 micron	0.5 to 0.8 micron	0.5 to 0.8 micron	0.5 to 0.8 micron	0.5 to 0.8 micron
Working Pressure (for pressure filter use)							
	Minimum	10 psi	10 psi	N/A	10 psi	10 psi	10 psi
	Maximum	125 psi	125 psi	N/A	125 psi	125 psi	125 psi
Working Parameters							
	Working temperature range	5 - 30 (ºC)	5 - 30 (ºC)	5 - 30 (ºC)	5 - 30 (ºC)	5 - 30 (ºC)	5 - 30 (ºC)
	Working ph range	5.5 - 9.5	5.5 - 9.5	5.5 - 9.5	5.5 - 9.5	5.5 - 9.5	5.5 - 9.5
	Suitable for use in Gravity filters	Yes	Yes	Yes	No	No	No
	Recommended change frequency	12 months	6 months	6 months	6 months	6 months	6 months
Flow Rate							
Unrestricted Flow at 3 Bar Pressure	Litres per minute	5	4.5	N/A	3.7	3.7	3.3
	US gallons per minute	1.33	1.2	N/A	1	1	0.9
To achieve maximum performance	Litres per minute	N/A	1.5	1.2 l/hr under gravity	1.9	1.9	1.9
	US gallons per minute	N/A	0.4	0.3 g/hr under gravity	0.5	0.5	0.5
Capacity							
Before replacement to	Litres	10,000	2000	1500	3800	3800	2300
guarantee performance	US gallons	2600	535	400	1000	1000	600
Quality Approval	NSF certified version available	YES+	NO	NO	YES+	No	YES+
	WRAS approved	YES	YES	NO	YES	No	YES
	Turbidity reduction to NSF std. 53	>98%	>98%	>98%	>98%	>98%	>98%
Pathogenic Organisms							
% Bacteria Removal	E. Coli / Cholera / Shigella / Typhoid / Klebsiella Terrigena	>99.99%	>99.99%	>99.99%	>99.99%	>99.99%	>99.99%
% Cyst Removal	Cryptosporidium	>99.99%	>99.99%	>99.99%	>99.99%	>99.99%	>99.99%
	Giardia	>99.99%	>99.99%	>99.99%	>99.99%	>99.99%	>99.99%
Trace Organics Removal							
Insecticides	Lindane @ 0.1ppb presence	N/A	NO DATA	NO DATA	>85%	NO DATA	>85%
Herbicides	Atrazine @ 1.2ppb presence	N/A	NO DATA	NO DATA	>85%	NO DATA	>85%
Phenols	TCP @ 1.2ppb presence	N/A	NO DATA	NO DATA	>50%	NO DATA	>50%
Polyaromatic Hydrocarbons	PAHs @ 0.2ppb presence	N/A	NO DATA	NO DATA	>95%	NO DATA	>95%
Trihalomethanes	Chloroform @ 150ppb presence	N/A	NO DATA	NO DATA	>50%	NO DATA	>50%
Inorganics Removal							
Free Chlorine Removal	2mg cl/l challenge	N/A	Under Gravity >95% Under Pressure >50%	>95% under gravity	>97% NSF Class 1 std. 42	>97% (1000 USG)	>96% NSF Class 1 std. 42
Monochloramine Reduction	3mg cl/l challenge	N/A	N/A	N/A	N/A	95% (600 USG)	N/A
Lead Removal	@ pH 6.5 after 2,244L	N/A	N/A	>94% under gravity	N/A	No	>99.3% NSF std. 53
	@ pH 8.5 after 2,244L	N/A	N/A	N/A	N/A	No	99.2% NSF std. 53
Scale Inhibition		Slow release scale inhibition available with Ultracarb SI® and Supercarb SI® ceramic filter candles.					

+ NSF certified replacement elements are Doulton Sterasyl®, Doulton® Supercarb® and Doulton® Ultracarb® as verified by testing in HIP Inline and QT Inline systems.

* Independently tested, see website for full technical and performance specifications and product availability.

Filter elements **Ceramic technology you can trust.**

Candle or Cartridge format?

There are two ceramic filter formats: Candle and Cartridge. The format you need will depend on the type of filter housing you are using and the flow rate you require.

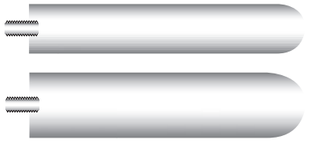
Candle

Candles have a domed end and a plastic mount on the top to fix them into the filter housing. All Doulton® filter housings use candle format filter elements.

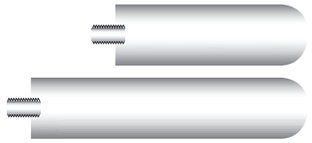
Other sizes can be manufactured to individual customer specifications.

Ceramic filter candles are available in:

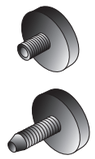
2 standard diameters:
Slimline: 2 inches/49 mm.
Imperial: 2¾ inches/67mm



2 standard lengths:
7 inches/177mm
10 inches/254mm.



Candles are manufactured as standard with a ¼ inch BSP threaded mount, available in two lengths:
Short mount: ¾ inch/19mm.
Long mount: 1 ½ inch/36mm
The type of mount as well as the length and diameter of the candle will be dictated by the filter housing.



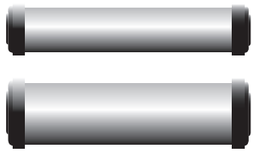
Element & Grade Availability

Grade	Candle 7" Candle	Candle 10" Candle	Cartridge Slimline	Cartridge Imperial
Sterasyl®	✔	✔	✔	✔
Super Sterasyl®	✔	✔		✔
ATC Super Sterasyl®	✔	✔		✔
Supercarb®		✔	✔	✔
Chlorasyl®		✔		
Ultracarb®		✔	✔	✔

Cartridge

Cartridges (OBEs) have a plastic mount and rubber washer at both ends. They are designed to fit industry standard 10 inch filter housings.

Cartridges are manufactured at a standard length of 9 ¾"/248mm and two standard diameters:
Slimline: 2 inches/49mm
Imperial: 2¾ inches/67mm



Water treatment cartridges

Water treatment cartridges allow the removal of additional contaminants from your drinking water.

They are compatible with the under-counter and counter-top range of housings and can also be used in the DUO™ housing alongside your choice of ceramic filter candle.

Sediment & Particle Pre Filter

In areas of high sediment, this pre filter will remove sediment and particles down to 5 microns in size.

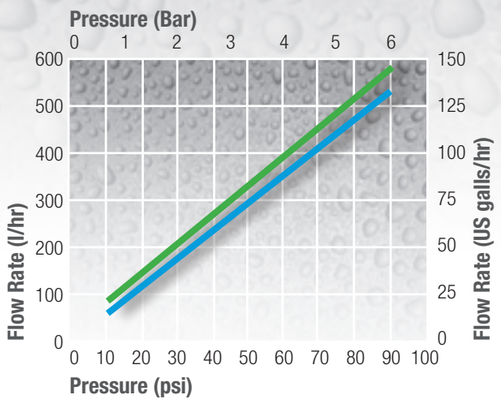
Cleansoft™ Pre Filter

Protect against the damaging effects of hard water by using the Cleansoft™ limescale reduction cartridge. This will reduce hardness in drinking water and the unpleasant 'chalky' taste that hard water can have.

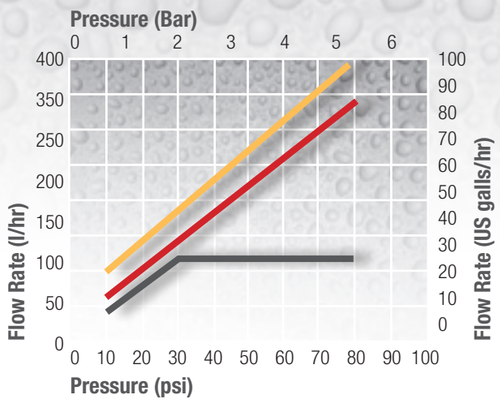
Fluoride Pre Filter

The fluoride reduction cartridge reduces unwanted naturally occurring and added fluoride to safe levels in your mains supplied drinking water.

Typical Candle Flow Rates 49mmØ



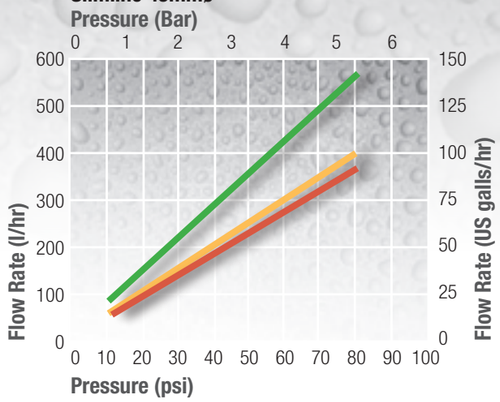
- Sterasyl®
- Super Sterasyl® / ATC Super Sterasyl®



- Supercarb® unrestricted flow
- Ultracarb® unrestricted flow
- NSF® restricted flow

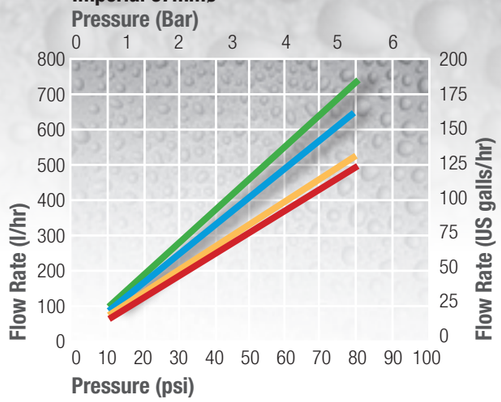
Typical Cartridge Flow Rates

Slimline 49mmø



- Sterasyl®
- Supercarb®
- Ultracarb®

Imperial 67mmø



- Sterasyl®
- Super Sterasyl®
- Supercarb®
- Ultracarb®

Filter housings **A solution for every situation.**

Under-counter Inline filters

Designed to be fitted to the mains cold water pipe underneath the kitchen counter and are highly robust as they are under water pressure all the time.

HIP/Sterasyl® Inline
HIP/Supercarb® Inline
HIP/Ultracarb® Inline

NSF

Material	Food Grade Plastic
Connections	3/8 inch push fit inlet & outlet suitable for 3/8 inch flexible plastic pipe
Number of filter candles	1
Type of filter candle	10 inches long x 2 inches in diameter (254 x 49mm) short threaded mount
Compatible candles	
***Flow Rate**	80 US galls/hour (300 l/hour)

DUO™

Material	Food Grade Plastic
Connections	3/8 inch push fit inlet & outlet suitable for 3/8 inch flexible plastic pipe
Number of filter elements	1 Ceramic Filter Candle 1 Pre Filter Water Treatment Cartridge
Type of filter candle	10 inches long x 2 inches in diameter (254 x 49mm) short threaded mount
Compatible candles	
***Flow Rate**	80 US galls/hour (300 l/hour)

QT Supercarb Inline
QT Ultracarb Inline

NSF

Material	Food Grade Plastic
Connections	3/8 inch push-fit inlet & outlet suitable for connection to flexible plastic pipe
Number of filter candles	1
Type of filter candle	10 inches long x 2 inches in diameter (254 x 49mm) short threaded mount
Compatible candles	
***Flow Rate**	73 US galls/hour (275 l/hour)

HIS

Material	Stainless Steel Body, Chromium Plated Brass Head
Connections	½ inch BSP threaded inlet & outlet
Number of filter candles	1
Type of filter candle	10 inches long x 2 inches in diameter (254 x 49mm) short threaded mount
Compatible candles	
***Flow Rate**	80 US galls/hour (300 l/hour)

Grade

- Sterasyl®
- Super Sterasyl®
- ATC Super Sterasyl®
- Supercarb®
- Chlorasyl®
- Ultracarb®

HIS PUSH-FIT

Material	Stainless Steel
Connections	3/8 inch push fit inlet & outlet suitable for 3/8 inch flexible plastic pipe
Number of filter candles	1
Type of filter candle	10 inches long x 2 inches in diameter (254 x 49mm) short threaded mount
Compatible candles	
***Flow Rate**	80 US galls/hour (300 l/hour)

RIO 2000 High Flow

Material	Polypropylene
Connections	1 inch BSP parallel threaded inlet & outlet
Number of filter candles	6
Type of filter candle	8 inches long x 1.2 inches in diameter (200 x 32mm) threaded short mount
Compatible candles	
***Flow Rate**	400 US galls/hour (1500 l/hour)

Due to a policy of continuing product development Fairey Industrial Ceramics Limited reserves the right to change any information without prior notice.

Counter-top filters

Situated on the kitchen counter next to the sink, counter-top filters are very popular with people who want very easy access to their water filters.

HCP

Material	Food Grade Plastic
Connections	Diverter valve fits onto most common threaded kitchen mixer taps
Number of filter candles	1
Type of filter candle	10 inches long x 2 inches in diameter (254 x 49mm) short thread
Compatible candles	
***Flow Rate**	80 US galls/hour (300 l/hour)

HCS

Material	Stainless Steel Body, Chromium Plated Brass Base
Connections	Diverter valve fits onto most common threaded kitchen mixer taps
Number of filter candles	1
Type of filter candle	10 inches long x 2 inches in diameter (254 x 49mm) short thread
Compatible candles	
***Flow Rate**	80 US galls/hour (300 l/hour)

* Please refer to filter performance table for flow rates for specific candle grades

Filter housings **Versatile and flexible.**

Wall-mounted filters

Providing easy access, these filters are designed to be wall-mounted in close proximity to the kitchen sink.

HBA MK1

Material	Nylon Coated Aluminium
Connections	½ inch BSP threaded inlet & outlet
Number of filter candles	1
Type of filter candle	10 inches long x 2 inches in diameter (254 x 49mm) short thread
Compatible candles	
***Flow Rate**	80 US galls/hour (300 l/hour)

HBA MK11

Material	Food Grade Plastic
Connections	½ inch BSP threaded inlet & outlet
Number of filter candles	1
Type of filter candle	10 inches long x 2 inches in diameter (254 x 49mm) short thread
Compatible candles	
***Flow Rate**	80 US galls/hour (300 l/hour)

Grade

- Sterasyl®
- Super Sterasyl®
- ATC Super Sterasyl®
- Supercarb®
- Chlorasyl®
- Ultracarb®

Outdoor Recreation Water filters

For situations where there is no reliable pressurised mains water supply.

HCA

Material	High Density Polypropylene
Connections	Water is poured manually into the upper chamber
Number of filter candles	1 or 2 candles
Type of filter candle	7 inches long x 2 diameter (178 x 49mm) long threaded mount & wing nut
Compatible candles	
***Flow Rate**	0.22 or 0.40 US galls/hour (0.85 or 1.5 l/hour) - depending on number of candles installed

LP2

Material	Food Grade Plastic
Connections	Water is poured manually into the upper chamber
Number of filter candles	2
Type of filter candle	7 inches long x 2 diameter (178 x 49mm) long thread and wing nut
Compatible candles	
***Flow Rate**	0.45 US galls/hour (1.7 l/hour)

SS

Material	Stainless Steel
Connections	Water is poured manually into the upper chamber
Number of filter candles	2 candles
Type of filter candle	7 inches long x 2 diameter (178 x 49mm) long thread and wing nut
Compatible candles	
***Flow Rate**	0.5 US galls/hour (1.7 l/hour)

Due to a policy of continuing product development Fairey Industrial Ceramics Limited reserves the right to change any information without prior notice.

* Please refer to filter performance table for flow rates for specific candle grades.

Doulton®

High Efficiency Filter
99.99% plus filtration of bacteria, cysts and particles*.

Long-Life / Value for Money
Cleanable filter surface for prolonged life.

Anti-Bacterial Action
Proprietary system to inhibit microbiological growth on the filter. No boiling required.

Retains Essential Minerals
Keeps the minerals beneficial to health.

No Power Required
Cost effective to run. Protects without power.

MANUFACTURED BY FAIREY INDUSTRIAL CERAMICS LIMITED
Lymedale Cross, Lower Milehouse Lane, Newcastle-under-Lyme
Staffordshire, ST5 9BT. United Kingdom.

*Independently tested; see website for full technical and performance specifications and product availability.

State restrictions may limit the availability of certain products in California, Iowa and Wisconsin. For product availability in these States please refer to our website:

www.faireyceramics.com

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