

BECODISC stacked disc cartridges



Powering Business Worldwide

Robust and compact stacked disc cartridges for a wide variety of filtration applications

Eaton is a leading supplier of complete depth filtration solutions and develops, manufactures and provides high-quality depth filtration media for food, beverage, fine chemical and pharmaceutical applications.

The individual cells of the BECODISC® stacked disc cartridges are constructed using either BECO® or BECOPAD® depth filter sheets. In addition to handling simplicity, reduced setup times, increased personnel and product protection, the enclosed BECODISC system offers protection against bypass effects. Additional benefits include:

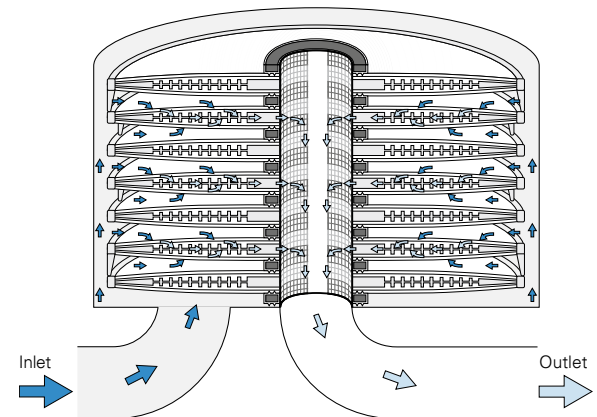
- Precise sealing of the filter cells through polypropylene or polyamide edge molding
- Excellent stability, even during sterilization, through high assembly pressure compressing the filter cells and bound tightly with a three-segment stainless steel sleeve
- Efficient flow path within the filter cell through an internal drainage plate
- Full filter surface area utilization through defined, consistent cell distance

The product range also contains enclosed BECO INTEGRA® DISC housings in a range of designs and sizes. They meet many demanding filtration tasks and process safety requirements.

Eaton stacked disc cartridges meet national and international quality standards, such as:

- LFGB standard (German Food, Commodity and Feed Act) in Germany
- FDA guidelines (Food and Drug Administration) from the USA
- Polypropylene components meet European Directive 10/2011

For further information, please refer to the Declaration of Conformity documents, technical data sheets and Validation Guides, especially for the pharmaceutical industry.



BECODISC flow diagram in enclosed filter housing



BECODISC Stacked Disc Cartridge Ranges

Selection guide

For a wide range of applications



BECODISC

Premium stacked disc cartridges with BECOPAD depth filter sheets made of cellulose, characterized by high-purity, strength and performance for excellent color and flavor fidelity.

Main applications:

Wine, beer, fruit juices, spirits, food, fine/specialty chemistry, biotechnology, pharmaceutical, cosmetics



BECODISC BS

Stacked disc cartridges with excellent clarification performance for reliable removal from particles to microorganisms due to optimal pore structure and adsorption.

Main applications:

Wine, beer, fruit juices, spirits, food, fine/specialty chemistry, biotechnology, pharmaceutical, cosmetics



BECODISC BT

Stacked disc cartridges with high dirt-holding capacity and burst strength for filtration of liquids with high viscosity or particle load.

Main applications:

Fine/specialty chemistry, biotechnology, pharmaceutical, cosmetics, food, fruit juices



BECODISC BA

Stacked disc cartridges specifically manufactured with reduced calcium and magnesium for prevention and removal of haze while preserving color and flavor.

Main applications:

Spirits, flavors and fragrances

Activated carbon for correction of color and odor



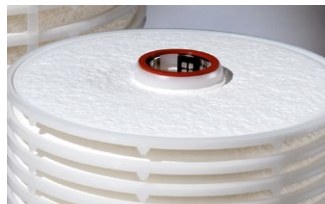
BECODISC BC/BW

Immobilized activated carbon imparts high adsorption capacity to carbon stacked disc cartridges for removal of colors, odors and undesirable byproducts from liquids.

Main applications:

Fine/specialty chemistry, biotechnology, pharmaceutical, cosmetics, fruit juices, spirits, food

Low endotoxin content suitable for pharmaceutical applications



BECODISC P

Stacked disc cartridges with BECOPAD P depth filter sheets composed of high-purity cellulose with low extractables, extremely low endotoxin content (<0.025 EU/ml) after rinsing with 25 l/m² WFI (Water for Injection) and up to 50 % reduction of rinse volume.

Main applications:

Pharmaceutical, fine/specialty chemistry, biotechnology

[A Validation Guide is available upon request.](#)



BECODISC BP

Stacked disc cartridges with excellent clarification performance for reliable removal of particulate, microorganisms and retention of endotoxins due to optimal combination of depth filtration and adsorption. An endotoxin content of <0.125 EU/ml after rinsing with 50 l/m² WFI is achieved.

Main applications:

Pharmaceutical, fine/specialty chemistry, biotechnology

[A Validation Guide is available upon request.](#)

Technical data and configurations

Range	Type (PP version)	Depth filter sheet	Nominal retention rate µm	Thickness mm	Ash content %	Bursting strength wet kPa ¹	Water throughput Δ p = 100 kPa ¹ l/m ² /min	Endotoxin content EU/ml
BECODISC	B1C3 ²	BECOPAD 115 C ²	0.1 – 0.2	4.1	<1	>150	26	-
	B123 ²	BECOPAD 120 ²	0.1 – 0.3	3.9	<1	>150	54	-
	B173 ²	BECOPAD 170 ²	0.2 – 0.4	3.9	<1	>150	77	-
	B223 ²	BECOPAD 220 ²	0.3 – 0.5	3.9	<1	>150	100	-
	B273 ²	BECOPAD 270 ²	0.5 – 0.7	3.9	<1	>150	135	-
	B353 ²	BECOPAD 350 ²	0.7 – 1.0	3.9	<1	>150	160	-
	B453 ²	BECOPAD 450 ²	1.0 – 2.0	3.9	<1	>150	300	-
	B553 ²	BECOPAD 550 ²	2.0 – 3.0	3.9	<1	>150	570	-
B583 ²	BECOPAD 580 ²	8.0 – 10.0	3.9	<1	>150	3571	-	
BECODISC BS	B01S	BECO Steril S 100	0.1	3.9	58	>50	30	-
	B02S	BECO Steril S 80	0.2	3.9	50	>80	46	-
	B03S	BECO Steril 60	0.3	3.8	50	>50	60	-
	B04S	BECO Steril 40	0.4	3.8	49	>50	69	-
	B05S	BECO SD 30	0.5	3.8	50	>50	84	-
	B06S	BECO KDS 15	0.6	3.8	50	>50	115	-
	B08S	BECO KDS 12	0.8	3.8	50	>50	155	-
	B10S	BECO KD 10	1.0	3.8	50	>50	185	-
	B15S	BECO KD 7	1.5	3.8	50	>50	225	-
	B20S	BECO KD 5	2.0	3.8	50	>50	270	-
	B25S	BECO KD 3	2.5	3.8	50	>40	425	-
	B30S	BECO K2	3.0	3.8	46	>50	1550	-
	B40S	BECO K1	4.0	3.8	42	>60	1900	-
	BECODISC BT	B15T	BECO CP07S	15.0	3.6	35	>110	4290
B20T		BECO CP03S	20.0	3.7	35	>90	7140	-
B25T		BECO CP02S	25.0	3.3	17	>90	9520	-
B30T		BECO CP01S	30.0	4.6	16	>100	12500	-
B27T ²		BECO CP2KS ²	27.0	2.9	<1	>150	9760	-
B40T ²	BECO CP1KS ²	40.0	4.3	<1	>150	22620	-	
BECODISC BA	BA20	BECO SELECT™ A 20	0.8	4.4	43	>40	160	-
	BA40	BECO SELECT A 40	2.5	4.4	43	>40	300	-
BECODISC BC/BW	B30C	BECO ACF07 with protective fleece	-	3.8	15	>40	1415	-
	B30W	BECO ACF07	-	3.8	15	>40	1415	-
BECODISC P	B171 ²	BECOPAD P 170 ²	0.2 – 0.4	3.9	<1	>150	77	<0.025 ³
	B271 ²	BECOPAD P 270 ²	0.5 – 0.7	3.9	<1	>150	135	<0.025 ³
	B351 ²	BECOPAD P 350 ²	0.7 – 1.0	3.9	<1	>150	160	<0.025 ³
	B551 ²	BECOPAD P 550 ²	2.0 – 3.0	3.9	<1	>150	570	<0.025 ³
	B581 ²	BECOPAD P 580 ²	8.0 – 10.0	3.9	<1	>150	3571	<0.025 ³
BECODISC BP	B01P	BECO PR Steril S100	0.1	3.9	58	>50	30	<0.125 ⁴
	B02P	BECO PR Steril S 80	0.2	3.9	50	>80	46	<0.125 ⁴
	B04P	BECO PR Steril 40	0.4	3.9	49	>50	61	<0.125 ⁴
	B08P	BECO PR 12	0.8	3.9	50	>130	175	<0.125 ⁴
	B20P	BECO PR 5	2.0	3.9	50	>60	330	<0.125 ⁴
	B40P	BECO PR 1	4.0	4.3	48	>45	2381	<0.125 ⁴

¹ 100 kPa = 1 bar | ² Without the addition of mineral components | ³ Determination after rinsing with 25 l/m² WFI (Water for Injection) | ⁴ Determination after rinsing with 50 l/m² WFI

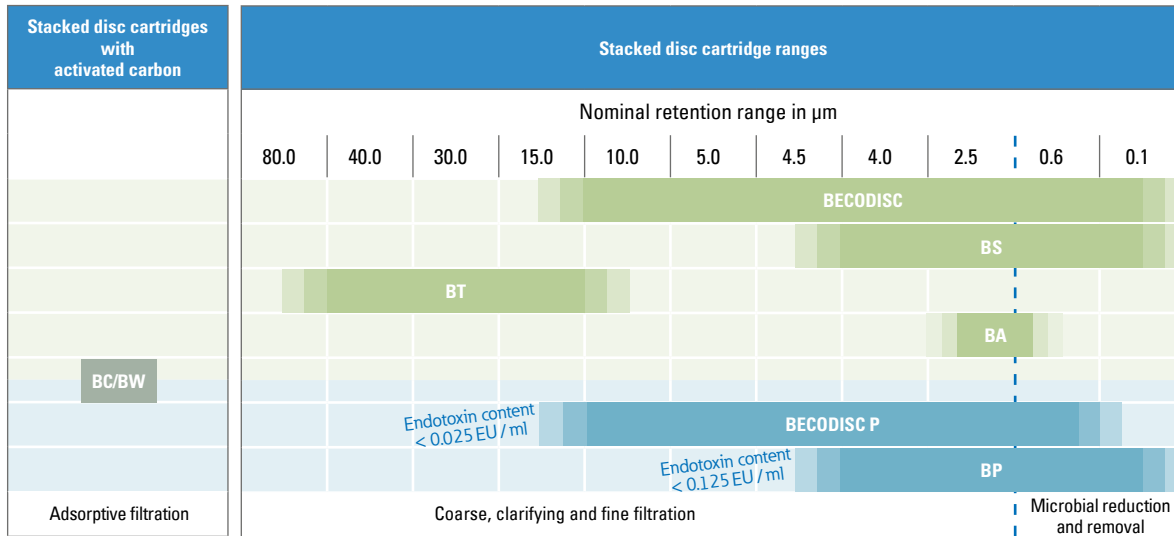
	BECODISC 12", Ø 295 mm					BECODISC 16", Ø 402 mm				
Number of cells	16	14	9 ¹	9	5	16	14	9 ¹	9	5
Filter surface area [m ²]	1.9	1.65	1.1	1.1	0.59	3.7	3.2	2.1	2.1	1.15
Pre-coat volume [l] ²	-	3.6	8.0	-	-	-	7.0	15.4	-	-
Overall height flat adapter [mm]	276	276	276	195	101	276	276	276	195	101
Overall height double O-ring adapter [mm]	329	329	329	248	-	329	329	329	248	-
Protective fleece (polyester) ³	-	-	✓/-	-	-	-	-	✓/-	-	-
Cell spacer rail	-	-	✓	-	-	-	-	✓	-	-

¹ Special stacked disc cartridge configuration with cell spacer rails providing increased mechanical stability for holding filter cake

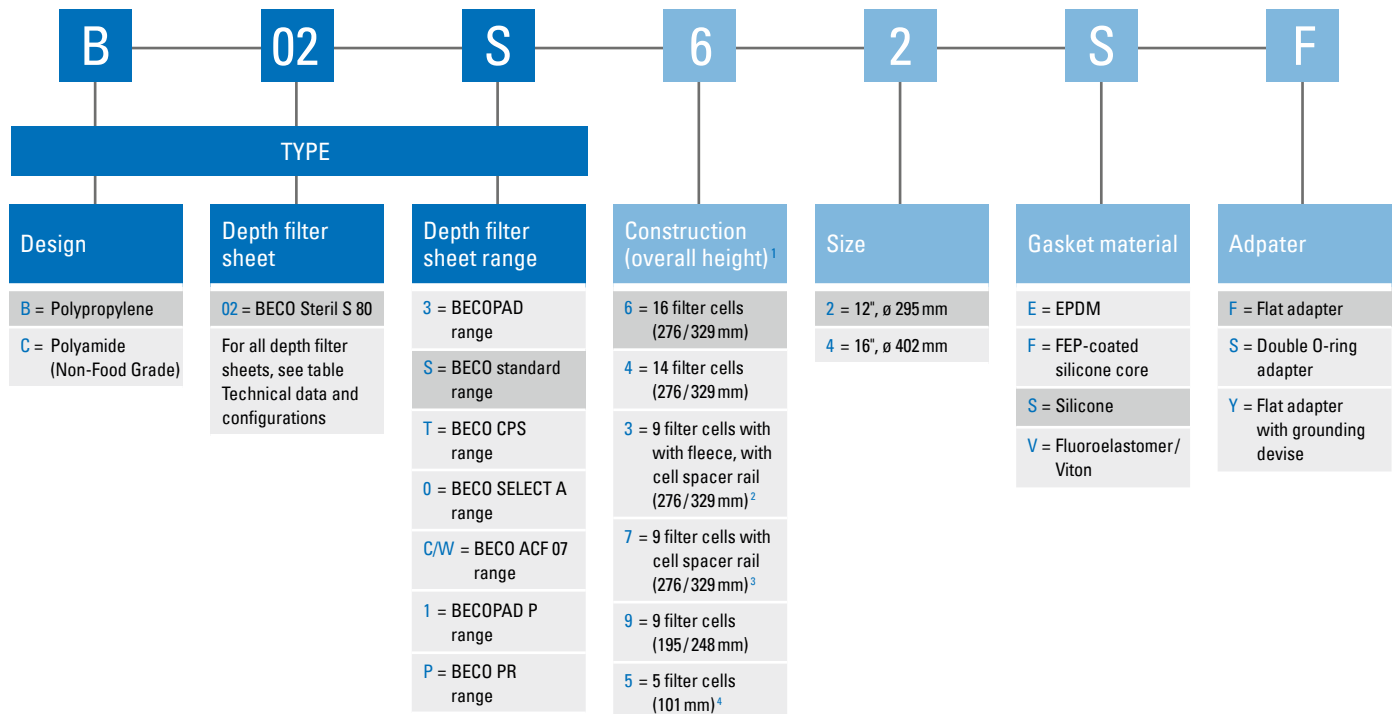
² Calculated values (BECO depth filter sheets with 4.0 mm thickness) | ³ BECODISC B30C and C30C stacked disc cartridges: designs with protective fleece



Retention ranges and filtration tasks



Ordering information



Example: B02S62SF

Polypropylene BECODISC BS stacked disc cartridge with BECO Steril S 80 depth filter sheets of the BECO standard range, 16 filter cells, 276 mm high, in 12" size with silicone gaskets and flat adapter.

¹ Flat adapter/Double O-ring adapter

² Cannot be combined with BECOPAD, BECOPAD P depth filter sheets and BECO ACF 07 depth filter sheets with activated carbon (B30W)

³ Cannot be combined with BECO ACF 07 depth filter sheets with activated carbon (B30C)

⁴ Cannot be combined with double O-ring adapter

North America
44 Apple Street
Tinton Falls, NJ 07724
Toll Free: 800 656-3344
(North America only)
Tel: +1 732 212-4700

Europe/Africa/Middle East
Auf der Heide 2
53947 Nettersheim, Germany
Tel: +49 2486 809-0

Friedensstraße 41
68804 Altlußheim, Germany
Tel: +49 6205 2094-0
An den Nahewiesen 24
55450 Langenlonsheim, Germany
Tel: +49 6704 204-0

China
No. 3, Lane 280,
Linhong Road
Changning District, 200335
Shanghai, P.R. China
Tel: +86 21 5200-0099

Singapore
100G Pasir Panjang Road #07-08
Singapore 118523
Tel: +65 6825-1668

Brazil
Rua Clark, 2061 - Macuco
13279-400 - Valinhos, Brazil
Tel: +55 11 3616-8400

**For more information, please
email us at filtration@eaton.com
or visit www.eaton.com/filtration**

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