

Duraclear® Filter



Table of Contents – Duraclear® Filters



Materials of Construction	3
Operating Characteristics	4
Cartridge Installation Instructions	5
Storage and Shelf Life	6
Part Number Matrix Description	
Cartridge	7

Materials of Construction

The Duraclear® filter is manufactured using high quality components made from non-toxic and biologically inert raw materials. All components of the Duraclear® filter are FDA listed for food contact use in the Code of Federal Regulations (CFR), Title 21 as below:

Components

Media:	Polypropylene	CFR Title 21, 177.1520
Upstream support:	Polypropylene	CFR Title 21, 177.1520
Downstream support:	Polypropylene	CFR Title 21, 177.1520
Outer netting:	Polypropylene	CFR Title 21, 177.1520
Core:	Polypropylene	CFR Title 21, 177.1520
End caps:	Polypropylene	CFR Title 21, 177.1520
	FDA blue vinyl	CFR Title 21, 177.1010
Gaskets:	Buna	CFR Title 21, 177.2600
	EPR	CFR Title 21, 177.2600
	Polyethylene	CFR Title 21, 177.1520
	Silicone	CFR Title 21, 177.2600
	Teflon®	CFR Title 21, 177.1550

Dimensions (Nominal Sizes)

<i>Cartridge</i>	<i>Diameter</i>	<i>Length</i>
Vinyl end caps	2 5/8" (6,7 cm)	9.75" (24,8 cm)
Polypropylene end caps	2 3/4" (7,0 cm)	10" (24,5 cm) vinyl only
		19.5" (49,5 cm)
		20" (50,8 cm)
		29.25" (74,3 cm)
		30" (76,2 cm)
		39" (99,1 cm)
		40" (101,6 cm)



Operating Characteristics

Cartridges

Maximum Operating Temperatures and Pressures

90°F @ 80 psid	150°F @ 50 psid	180°F @ 20 psid
(32°C @ Δp 5,5 bar)	(66°C @ Δp 3,4 bar)	(82°C @ Δp 1,4 bar)



Cartridge Installation Instructions

Gaskets

Meissner filters are available in a number of size and gasket combinations designed to fit standard filter housings. The filter should fit snugly in the clean housing. Improper installation can impair filtration efficiency.

1. Verify that the correct filter part number for the application has been chosen.
2. Keep the filter in its plastic bag to avoid contaminating the cartridge as long as possible. Cut the bag open at one end.
 - a. If the housing uses a tie rod, remove the seal nut. While holding the bagged cartridge, center the gasket and cartridge over tie rod onto the seat cup. Do not force, jam or drop the cartridge into place. Remove the bag. Screw the seal nut back onto the tie rod. (Hand tightening is normally sufficient to obtain a positive seal.) Be certain the cartridge is centered; the end cap and gaskets should be aligned and properly seated. Reassemble the housing.
 - b. If a tie rod is not used, place the gasket and cartridge over the center post of the housing bowl. Do not force, jam or drop the cartridge into place. Remove the bag. Be certain the cartridge is centered and the end cap and gaskets are aligned. Reassemble the housing, lining up the cartridge with the central post in the housing head.



Storage and Shelf Life

Meissner Filtration Products, Inc. manufactures a complete line of filter products. Filters are suitably bagged and boxed for shipping and may be stored in the original packaging in a clean dry area between 0°C to 38°C (32°F to 100°F) for extended periods of time. The following gives the minimum shelf life expectancies for Duraclear® products.

Five Years

Duraclear® filters have an expected shelf life greater than five years in the cartridge configuration.



Duraclear® - Media Description

D = This nominal rated, pleated, depth type filter is composed of continuous, self-bonded Polypropylene microfibers. The heavy duty core and support components are constructed of 100% Polypropylene or self-sealing vinyl.

CARTRIDGES

D	05	—	97	BK
Filter Media	Nominal Rating (µm)	—	Cartridge Length	End Cap Configuration
D	01, 03, 05, 10, 15, 25, 50	—	97 = 9.75" (24,8 cm) 10 = 10" (24,5 cm) (BK & FB end caps only) 19 = 19.5" (49,5 cm) 20 = 20" (50,8 cm) 29 = 29.25" (74,3 cm) 30 = 30" (76,2 cm) 39 = 39" (99,1 cm) 40 = 40" (101,6 cm)	BK = DOE; black vinyl end caps, industrial-grade BKC2B = SOE; black vinyl end caps -222/flat, Buna O-ring FB = DOE; blue vinyl endcaps, FDA acceptable material PB = DOE; Polypropylene end caps with Buna gaskets PE = DOE; Polypropylene end caps with EPR gaskets PP = DOE; Polypropylene end caps with Polyethylene gaskets PS = DOE; Polypropylene end caps with Silicone gaskets PT = DOE; Polypropylene end caps with Teflon® gaskets PV = DOE; Polypropylene end caps with Viton® gaskets

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