

MDI positively charged Nylon-66 membrane capsule filters are absolute retention, serial filtration devices for sterilization of liquids. The upstream layer with larger pore size protects the downstream final layer for enhanced throughputs.

The positive charge of the membrane offers enhanced capability to retain negatively charged contaminants such as endotoxins and colloids even smaller than the membrane pore size rating.

These filters are biologically inert, autoclavable, heat resistant, exhibiting wide chemical compatibility, and are suitable for a large number of filtration and sterilization applications including ophthalmic, and injectable solutions.

Special Features

- ◆ Positively charged to retain contaminants smaller than pore size rating
- ◆ High flow rates and throughputs
- ◆ Minimal extractables
- ◆ High heat resistance
- ◆ Wide chemical compatibility
- ◆ Absolute reliability
- ◆ Biologically inert
- ◆ Hydrophilic

Microbiologically Validated as per ASTM F 838-05
Complies with USFDA 21 CFR 210.3(b)(6)
Meets and Exceeds USFDA 21 CFR 177.1520

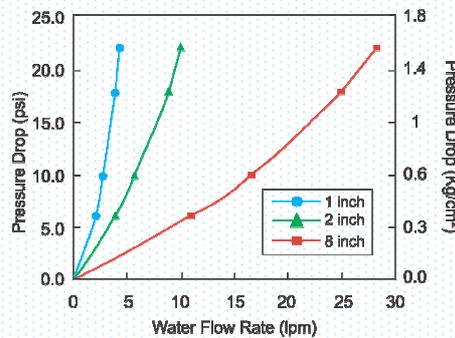
Application

- ◆ Filtration of pharmaceutical solutions
- ◆ Sterilizing filtration of wide variety of compatible organic solvents
- ◆ Sterilization of laboratory disinfectants
- ◆ Filtration of buffers and other non-aqueous solutions

Integrity Test Data (with Water)

Bubble Point	≥ 50 psi
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Typical Water Flow Rate



Specifications

Material of Construction
Housing – Polypropylene
Filter Media – Positively Charged Nylon-66 membrane
Drainage Layer – Polyester

Maximum Operation Pressure
 ≤ 4 Kg/cm² @ 30° C

Maximum Operating Temperature
 80° C @ < 2 Kg/cm²

Retention Efficiency
 LRV > 7 for *B. diminuta* ATCC 19146

Biosafety
 Passes Biological Reactivity Tests , *In Vivo* for Class VI of plastics as described in USP <88>

Sterilization

- ◆ Ethylene Oxide sterilizable
- ◆ Autoclavable at 125° C for 30 minutes, 1 cycle
- ◆ Can not be steam sterilized

Oxidizable Matter
 Passes test as per USP <1231>

Extractables with Water
 Passes NVR test as per USP <661>

Fiber Release
 Complies with USFDA CFR Title 21, Part 210.3(b)(6)

Particle Release
 Complies with USP <788> test for particulate matter in injections

Ordering Information:

Type	Size		Pore Size		Inlet/Outlet		X	Bell		Sterility		Pack Size	
	Code	Code	Code	Code	Code	Code		Code	Code	Code	Code	Code	
AseptiCap NSZ (0.45μm Upstream)	DNZX	1"	51	0.2 μm	01	1/4" SHB	A	Yes****	B	Non Sterile	1	1	01
		2"	52			1/4" MNPT	B						
AseptiCap NSZ (0.8μm Upstream)	DNZ5	5"	53			1/2" Hose Barb	D	Bell with cover****	C	EO Sterile	2		
		8"	57			1.5" Sanitary Flange	E						
						3/4" Sanitary Flange	S						
						Quick Connector	J						
						Single Step 1/2" Hose Barb*	Q	No Bell	X				
						Female Luer Lock	U						
						Male Luer Slip**	W						
						3/16" Hose Barb***	N						
						3/8" Hose Barb*	I						
EXAMPLE	DNZX	52	01			JJ	X	X	1	1	01		