

# AseptiCap WS-y Hydrophilic PVDF Membrane Large Capsule Filters

mdi AseptiCap WS-y are low protein binding hydrophilic PVDF gamma sterilizable membrane capsule filters offering serial filtration incorporating a larger pore size upstream membrane to protect the downstream membrane for enhanced throughput.

These capsule filters are validated to meet compendia and regulatory requirements and are well characterized. They meet key process requirements such as absolute retention efficiency, extremely low extractables, high throughputs, wide chemical compatibility and other important characteristics.

# **Key features**

- Absolute retention
- 100% integrity tested
- Low protein binding
- Low extractables
- Low hold up volume

# **Applications**

### **Sterile Filtration of**

- **Antibodies**
- **Protein Solutions**
- **Buffers**
- Vaccine concentrates
- Small Volume Parenterals

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



# **Specifications**

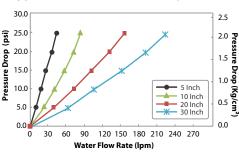
### Pore Size

0.2 μm and 0.45 μm

### Materials of Construction

Membrane	Hydrophilic PVDF				
Plastic Components	Polypropylene				

## Typical Water Flow Rates, 0.2 µm Filters



# Microbial Retention

**0.2um**: LRV >7 for *B. diminuta* (ATCC

19146) per cm<sup>2</sup>

**0.45μm**: LRV >7 for Serratia marcescens

(ATCC 14756) per cm<sup>2</sup>

# **Maximum Operating Temperature** $80 \,^{\circ}\text{C} \,@ < 30 \,\text{psi} \,(2 \,\text{Kg/cm}^2)$

### **Maximum Differential Pressure**

60 psi (4 Kg/cm<sup>2</sup>) @ 30 °C

### **Bubble Point**

**0.2 μm:** > 50psi (3.51Kg/cm<sup>2</sup>) with Water **0.45 µm:**  $> 30 \text{ psi } (2.11 \text{ Kg/cm}^2) \text{ with water}$ 

By Irradiation: Gamma irradiatiable up to 50 kGy

By Autoclave: Autoclavable at 125°C for 30 minutes, 1 cycle after gamma irradiation. Cannot be in-line steam sterilized

Passes Bioreactivity test, In Vivo, as per USP <88> for Class VI plastics

### **Cytotoxicity**

Passes Biological Reactivity Tests, In Vitro, USP <87> for cytotoxicity

### **Bacterial Endotoxin**

Aqueous extracts exhibit < 0.25 EU/ml as established by Limulus Amebocyte Lysate (LAL) Test as per USP <85>

### Fiber Release

Passes test as per USP and comply with USFDA 21 CFR Part 210.3(b)(6) for fiber release

# Particle Release

The filtrate complies with USP <788> test for particulate matter in injections

# **TOC and Conductivity**

Meets the WFI requirements of USP for TOC <643> and Conductivity <645> after flushing with a specified volume of WFI

### Extractables with WFI

Passes test as per USP <661>

### **Oxidizable Substances**

Within limits as specified in USP < 1231>

# **Ordering Information**

Туре		Size		Pore Size		Inlet /Outlet		Radiation Sterilizable		Inline/T-Line		Sterility		Pack Size	
	Code	Length and EFA	Code		Code		Code		Code		Code		Code		Code
AseptiCap WS	LWSX	5" (3000 cm <sup>2</sup> )	53	0.2µm	01	1½" Sanitary Flange	E	Yes	R	Inline	Х	Non-Sterile	1	1	01
(0.45 μm		10" (6000 cm <sup>2</sup> )	54	0.45µm	02	Single Step ½" Hose Barb	Q	No**	Х	T-Line***	Т	Gamma Sterile	3		
upstream)		20" (12000 cm <sup>2</sup> )	55			3/4" Sanitary Flange*****	E	*0.45 µm capsule filters are available with 0.8 µm upstream only **Gamma sterile capsule filters cannot be gamma irradiated again ***T-line Capsule Filters are available with 1½ "Sanitary Flange I/O Connections only ****1" Hose Barb connection is not available in 5" capsule filters							
AseptiCap WS	LWS5	30" (18000 cm <sup>2</sup> )	56	]		3%" Hose Barb****	1								
(0.8 µm upstream)*		<b>EFA:</b> Effective Fil	tration	Area		1" Hose Barb	Z								
Example		l			*****3/4" Sanitary Flange is available only in 5" and 10" capsule filters Size 5" is available in Inline Capsule filters only										

For Non-Sterile: LWSX5601QQRX101

**LWSX** 

For Gamma Sterile: LWSX5601QQXX301

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