

MDI AseptiCap WS-γ 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
- Very low hold up volume in filters

### 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

### Ordering Information

Type	Size		Pore Size		Inlet /Outlet		Radiation Sterilizable		X	Sterility		Pack Size		
	Code	Length and EFA	Code	Code	Code	Code	Code	Code		Code	Code	Code	Code	
AseptiCap WS (with 0.45µm Upstream)	DWSX	1" (100 cm <sup>2</sup> )	31	0.2µm	01	¼" SHB	A	Yes	R		Non-Sterile	1	1	01
		1" (250 cm <sup>2</sup> )	51	0.45µm	02	½" Hose Barb	D	No****	X		Gamma Sterile	3		
	2" (500 cm <sup>2</sup> )	52			1½" Triclover	E								
AseptiCap WS (with 0.8µm Upstream)*	DWS5	5" (1000 cm <sup>2</sup> )	53			¾" Sanitary Flange	S			*0.8 µm upstream is available with 0.45µm capsule filters only **Single step ½" hose barb and 3/8" Hose Barb end connections are not available in 1" capsule filter ***Male luer slip end connection is available as outlet only in 1" capsule filters ****3/16" hose barb end connection is available in: - 1" and 2" capsule filters as inlet and outlet - 5" as outlet only *****Gamma sterile capsule filters cannot be gamma irradiated again				
		8" (2000 cm <sup>2</sup> )	57			Quick Connector	J							
						Single Step ½" Hose Barb**	Q							
						Female Luer Lock	U							
						Male Luer Slip***	W							
				3/16" Hose Barb****	N									
				3/8" Hose Barb**	I									
Example	DWSX	53		01		QQ		R	X		1			01

For Non-Sterile: DWSX5301QQRX101

For Gamma Sterile: DWSX5301QQXX301

DST DWSX01R1620D



### Specifications

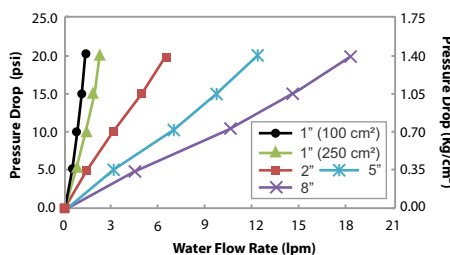
#### Pore Size

0.2 µm

#### Materials of Construction

Membrane	Hydrophilic PVDF
Plastic Components	Polypropylene

#### Typical Water Flow Rates, 0.2µm



#### Microbial Retention

**0.2 µm:** LRV >7 for *B. diminuta* (ATCC 19146) per cm<sup>2</sup>

**0.45 µm:** LRV >7 for *Serratia marcescens* (ATCC 14756) per cm<sup>2</sup>

#### Maximum Operating Temperature

80 °C @ ≤30 psi (2 Kg/cm<sup>2</sup>)

#### Maximum Differential Pressure

60 psi (4 Kg/cm<sup>2</sup>) @ 30 °C

#### Bubble Point (with water)

**0.2 µm:** ≥ 50psi (3.51Kg/cm<sup>2</sup>)

**0.45 µm:** ≥ 30 psi (2.11 Kg/cm<sup>2</sup>)

#### Sterilization By Gamma Irradiation

Gamma irradiatable up to 50 kGy

#### Toxicity

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 NVR test as per USP <661>

#### Oxidizable Substances

Passes test as per USP <1231>