

mdi Capsule Filters type AseptiVent- DTL incorporate single layer of PTFE membrane encased in a strong polypropylene housing. These are designed to meet the demand for air/gas as well as aggressive solvent filters. These capsule filters can withstand rigors of the processes, especially in pharmaceutical and biopharmaceutical industries. These ensure clean processing owing to their non-fiber releasing characteristics.

These are available in a variety of sizes and end connections to suit specific filtration needs in critical and specialized process applications.

mdi AseptiVent- DTL filters are tested for key performance parameters such as chemical compatibility, heat stability and flow rates.

Material of Construction

Housing	: Polypropylene
Filter Medium	: PTFE Membrane
Support Layers	: Polypropylene
Vent/Drain Rings	: Silicone

Application

- ◆ Fermentor exhaust
- ◆ Dry powder injectable filling
- ◆ Venting of sterile collection vessels
- ◆ Tablet coating
- ◆ Nitrogen blanketing in SVP
- ◆ Cleaning sterile surfaces
- ◆ Sterile air for cell factories



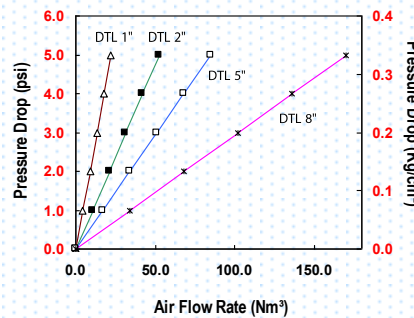
Special Features

- ◆ Essentially hydrophobic
- ◆ High heat stability
- ◆ Wide chemical compatibility
- ◆ Heat sealed to ensure 'no leaching'
- ◆ 100% Integrity tested

Integrity Test Data (70% IPA)

Pore Size	Bubble Point
0.2 μm	≥ 22 psi (≥ 1.54 Kg/cm ²)
0.45μm	≥ 8 psi (≥ 0.56 Kg/cm ²)

Air Flow Rate



Microbially Validated as per ASTM F 838-05

Complies with USFDA 21 CFR 211.72

Meets and Exceeds USFDA 21 CFR 177.1520



Specifications

Material of Construction

PTFE Membrane

Pore Size

0.2 μm, 0.45 μm

Wettability

Hydrophobic

Bacterial Retention

0.2μm: LRV > 7 for *B. diminuta* per cm² of filter area

0.45μm: LRV > 7 for *S. marcescens* per cm² of filter area

Maximum Operating Temperature

80 °C continuous @ ≤ 2 Kg/cm²

Maximum Operating Pressure

≤ 3.5Kg/cm² @ 25°C

Sterilization

- ◆ ETO Sterilizable
- ◆ 30 autoclave cycles at 121°C for 30 minutes

Biosafety

Passes the biological tests for Class VI of plastics as described in USP

Oxidizable Matter

Passes test as per USP

Extractables with Water

Within limits as specified in USP

Ordering Information:

Type	Code	Size	Code	Pore Size	Code	Inlet/Outlet	Code	X	Bell	Code	Sterility	Code	Pack Size	Code	
DTL	DTLX	1"	51	0.2 μm	01	1/4:" SHB	A		Yes	B	Non Sterile	1	1	01	
		2"	52			0.45 μm	02	1/4" MNPT	B	No Bell	X	ETO Sterile			2
		5"	53					1/2" MNPT	C						
		8"	57					1/2" Hose Barb	D						
								1.5" Triclover	E						
								6 mm Walther	G						
								3/8" FNPT	H						
								1/4" MPC	J						
				12 mm Walther	Y										

EXAMPLE DTLX 51 01 AA X X 1 01