



## Pegasus™ LV6 Virus Prefiltration



### *Extending Virus Filter Capacity in the Most Challenging Feeds*

Aggregates that foul virus filters come in different sizes and with different physiochemical properties. There are aggregates and/or conditions for which adsorption based prefilters fail and for which sized based prefiltration gives better performance in protecting and extending the life of the subsequent virus filter. Pegasus LV6 is such a size-based prefilter delivering high flow and high capacity for aggregates in the nanometer range that would normally foul the virus filter. Pegasus LV6 membrane in combination with the patented Ultipleat® filter construction provides robust high flow rates and total throughput of both Pegasus LV6 and the subsequent virus filter, which minimizes process costs. The high filter area per filter cartridge reduces the required amount of filter elements per installation and also minimizes the total hold-up volume of the virus filter system by protecting the virus filter. The proven hydrophilic PVDF sub-microporous membrane enables high transmission of proteins.

### *Features and Benefits*

- ▶ Improvement of subsequent virus filter throughput and flow
- ▶ Reducing virus filter sizing and cost
- ▶ High flow rate and total throughput performance
- ▶ High filter area per filter cartridge
- ▶ Reducing prefilter sizing
- ▶ Reducing total virus system hold-up volume
- ▶ Low binding and high transmission for high protein yields
- ▶ Prewetted for ease of use
- ▶ SIP and CIP compatible

## High Quality Standards

- ▶ Non-Fiber-Releasing per 21 CFR
- ▶ Biological Tests:
  - Meets USP Biological Reactivity, *in-vivo*, for Class VI-121 °C plastics
- ▶ Effluent Quality Tests (P tests):<sup>1</sup>
  - Meets Cleanliness per USP Particulates in Injectables
  - Non-Pyrogenic per USP Bacterial Endotoxins (< 0.25 EU/mL)
  - Meets Total Organic Carbon and Conductivity per USP Purified Water, pH per USP packaged waters

<sup>1</sup>Confirmed for each filter lot

### Materials of Construction

Membrane	Acrylate-modified polyvinylidene fluoride (PVDF)
Membrane Support and Drainage Layers	Polyethylene/polypropylene
Core and Endcaps	Polypropylene
Filter Cage	Polypropylene with encapsulated reinforcing ring
O-rings	Ethylene propylene

### Operating Conditions

Recommended Operating Differential Pressure	1 – 2 bar differential (14.5 – 29 psi differential)
Maximum Differential Pressure	4.1 bar (60 psi) during integrity testing 3.1 bar (45 psi) for continuous service 0.3 bar (5 psi) during steam sterilization

### Autoclave/Steaming<sup>1</sup>

Autoclavable or steamable <i>in-situ</i> for up to 3 cycles	Maximum Temperature 125 °C
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<sup>1</sup> Contact Pall for recommended procedures to qualify filters under actual conditions of use.

### Typical Aqueous Extractables (NVR)

Out of Box, T0	Average 32 mg Standard Deviation 3.6 mg
After Autoclaving at 125 °C ± 5 °C	Average 56 mg Standard Deviation 3.6 mg

### Filter Area (Nominal)

1.65 m<sup>2</sup> (17.8 ft<sup>2</sup>) per 254 mm (10 in.) element

### Flow Rate/Differential Pressure

12 L/min per 254 mm (10 in.) module Water Flow Rate at 2.1 bar (30 psi) differential pressure

### Process Scale-up with Pall Pegasus Grade LV6 Virus Filters

Part Number	Filter Area
FTKLV6047025 (25 Filter Discs)	11.1 cm <sup>2</sup> (0.012 ft <sup>2</sup> )
FTKLV604705 (5 Filter Discs)	
AB* ULV67PJ	1.65 m (17.8 ft <sup>2</sup> ) per 254 mm (10 in.)

\* Length Code: 1 = 254 mm (10 in.), 2 = 508 mm (20 in.), 3 = 762 mm (30 in.).

### Other Pall Direct Flow Virus Filters and Prefilters

Membrane	Type Description
Pegasus Prime	>4 log TR for viruses >20 nm
Pegasus SV4	>4 log TR for viruses >20 nm
UDV50	> 6 Log TR for viruses > 50 nm
DV20	> 3 Log TR for viruses > 20 nm
Pegasus Protect	0.2 µm
DVD	Sub 0.1 µm virus prefilter
DJL	0.1 µm (+0.2 µm prefilter layer)
DFL	0.2 µm (double-layer)

## Ordering Information

Part Number	Nominal Length	Removal Rating	Adapter	O-ring Material
AB1ULV67PJ	254 mm (10 in.)	50 nm	Double 226 O-ring with bayonet lock and finned end	Ethylene propylene
AB2ULV67PJ	508 mm (20 in.)	(nominal)		
AB3ULV67PJ	762 mm (30 in.)			

Part Number	Description
FTKLV6	47 mm test disc for filterability and validation trials



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