

# Ultramet-L® 6600 Series Filter Assembly (1.5 nm)



Data Sheet MEUL66ENa

## Description

The Ultramet-L® 6600 Series Filter Assembly is an all 316L stainless steel filter designed for  $\geq 1.5$  nanometer ( $0.0015 \mu\text{m}$ ) filtration of semiconductor process gases.

## Features & Benefits

- All 316L stainless steel construction
- State-of-the-art 316L stainless steel media
- Preconditioned to ultraclean levels
- Accommodates extremely high flow rates for assembly size
- Excellent gas displacement and desorption characteristics
- High temperature and pressure capabilities
- 100% helium leak tested
- Cleanroom manufactured and packaged
- CE marked in accordance with PED 2014/68/EU



## Specifications

Filter Medium	316L stainless steel <sup>1</sup>
Internal Surface Finish	6601: $\leq 10 \mu\text{in}$ / $0.25 \mu\text{m R}_a$ 6602: $\leq 0.7 \mu\text{m R}_{\text{max}}$
Housing	Electropolished 316L stainless steel Housing material meets or exceeds VIM / VAR specifications
Removal Rating	$\geq 1.5 \text{ nm}$
Particle Removal Characteristics	$10^9$ particle reduction up to 320 slpm / 11.3 scfm  <10 ppb moisture contribution (Qualified per SEMASPEC test method #90120397B-STD) <10 ppb THC contribution (Qualified per SEMASPEC test method #90120396B-STD) <10 ppb O <sub>2</sub> contribution (Qualified per SEMASPEC test method #90120398B-STD)  <1 particle/(ft <sup>3</sup> or m <sup>3</sup> ) particle contribution above background
Preconditioned Cleanliness	
Connections	$\frac{1}{2}$ " Gasket Seal, Male / Male (VCR <sup>2</sup> or compatible)

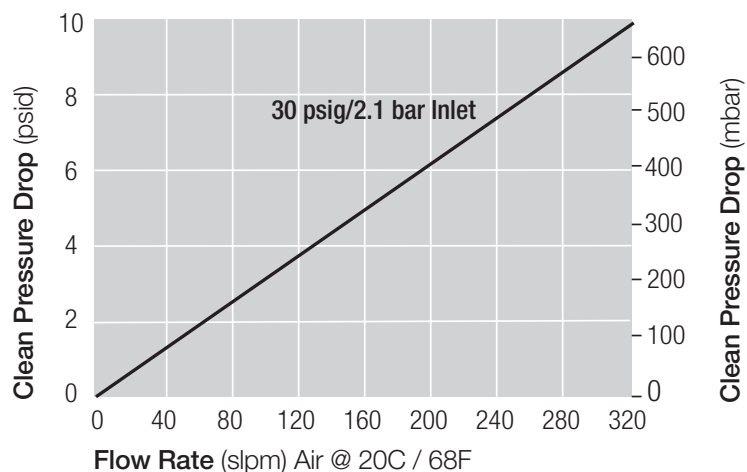
Leak Rating	100% helium leak tested to $10^{-9} \text{ atm}\cdot\text{cm}^3/\text{s}$ Design validated to $10^{-11} \text{ atm}\cdot\text{cm}^3/\text{s}$
Maximum Operating Pressure	52 bar @ 38 °C / 750 psig @ 100 °F 38 bar @ 426 °C / 550 psig @ 800 °F for inert gases only
Maximum Forward Differential Pressure	2.1 bar @ 20 °C / 30 psid @ 68 °F 1 bar @ 426 °C / 15 psid @ 800 °F inert gases only
EU Pressure Equipment Directive	Assemblies have been evaluated and designed using SEP per the European Union's Pressure Equipment Directive 2014/68/EU and are not CE marked.

<sup>1</sup> The 6600 Series Filter Assembly is also available with a nickel filter. Contact Pall Microelectronics for more information.

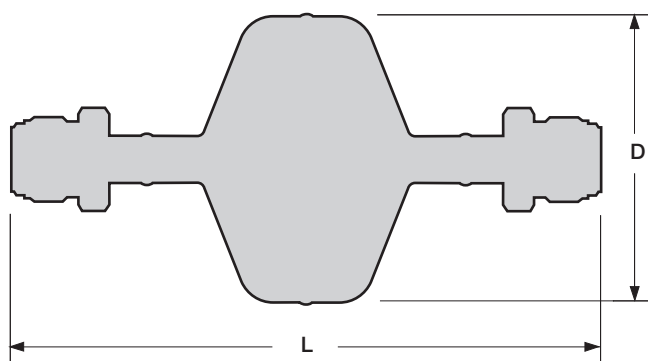
<sup>2</sup> VCR is a registered trademark of Swagelok Co.

## Pressure Drop vs. Gas Flow Rate

### 76 mm Ultramet-L Assemblies



## Dimensions



## Part Numbers / Ordering Information

Part Number	Description	Length (L) (in / mm)	Diameter (D) (in / mm)
GLFF6601VMM8	½" Gasket Seal (VCR or Compatible) Male / Male, ≤ 10 µin / 0.25 mm R <sub>a</sub>	6.06 / 154	3.02 / 76.7
GLFF6602VMM8	½" Gasket Seal (VCR or Compatible) Male / Male, ≤ 0.7 µm R <sub>max</sub>	6.06 / 154	3.02 / 76.7

Unit conversion: 1 bar = 100 kilopascals



### Microelectronics

25 Harbor Park Drive  
Port Washington, NY 11050  
+1 516 484 3600 telephone  
+1 800 360 7255 toll free US

### Nihon Pall Ltd.

6-5-1, Nishishinjuku,  
Shinjuku-ku  
Tokyo 163-1325 Japan  
+81 3 6901 5700 telephone  
+81 3 5322 2109 fax

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