

# Ultramet-L<sup>®</sup> 6600 Series Filter Assembly



Data Sheet MEUL66EN

## Description

The Ultramet-L<sup>®</sup> 6600 Series Filter Assembly is an all 316L stainless steel filter designed for  $\geq 3$  nanometer ( $0.003 \mu\text{m}$ ) 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

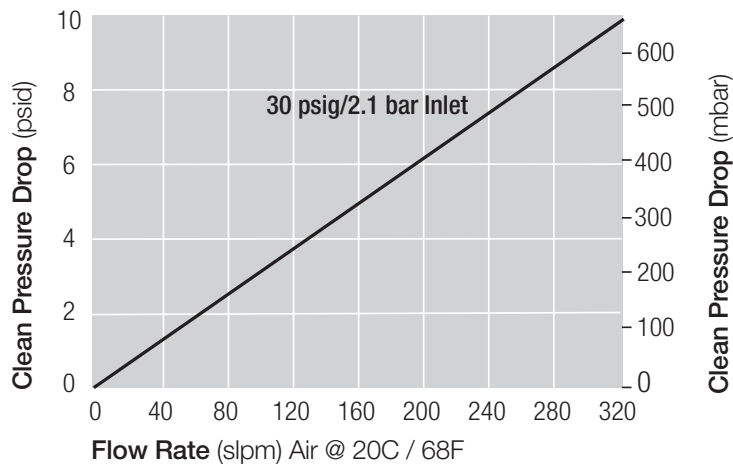
<b>Filter Medium</b>	316L stainless steel <sup>1</sup>
<b>Internal Surface Finish</b>	6601: $\leq 10 \mu\text{in} / 0.25 \mu\text{m} R_a$ 6602: $\leq 0.7 \mu\text{m} R_{\text{max}}$
<b>Housing</b>	Electropolished 316L stainless steel Housing material meets or exceeds VIM / VAR specifications
<b>Removal Rating</b>	$\geq 3 \text{ nm}$ <10 ppb moisture contribution (Qualified per SEMASPEC test method #90120397B-STD)
<b>Preconditioned Cleanliness</b>	<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
<b>Connections</b>	½" Gasket Seal, Male / Male (VCR <sup>2</sup> or compatible)

<b>Leak Rating</b>	100% helium leak tested to $10^{-9} \text{ atm}\cdot\text{cm}^3/\text{s}$ Design validated to $10^{-11} \text{ atm}\cdot\text{cm}^3/\text{s}$
<b>Maximum Operating Pressure</b>	750 psig @ 100 °F/52 bar @ 38 °C 550 psig @ 800 °F/38 bar @ 426 °C for inert gases only
<b>Maximum Forward Differential Pressure</b>	30 psid @ 68 °F/2.1bar @ 20 °C 15 psid @ 800 °F/1 bar @ 426 °C inert gases only
<b>Particle Removal Characteristics</b>	$10^9$ particle reduction up to 320 slpm/ 11.3 scfm
<b>EU pressure equipment directive</b>	Assemblies have been evaluated and are CE marked per the European Union's Pressure Equipment Directive 2014/68/EU

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

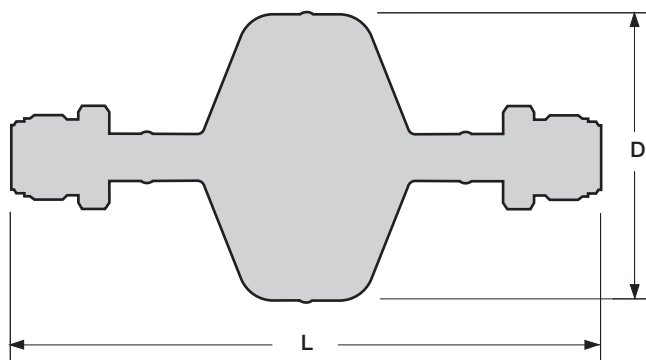
<sup>2</sup> VCR is a registered trademark of Swagelok Co.

## 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



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