

Ultramet-L®

6600 Series Filter Assembly



Description

The Ultramet-L® 6600 Series Filter Assembly is an all 316L stainless steel filter designed for ≥ 3 nanometer ($0.003 \mu\text{m}$) filtration of semiconductor process gases.

- 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 97/23/EC

Specifications

Materials

- Electropolished 316L stainless steel housing
- 316L stainless steel filter media¹
- Internal surface finish: 6601: $\leq 10 \mu\text{in}$ / 0.25 mm
 R_a / 6602: $\leq 0.7 \mu\text{m}$ R_{max}
- Cr:Fe (1:1) Chromium enriched internal surface chemistry
- VAR PLUS housing material meets or exceeds typical VIM/VAR specifications
- Housing material meets or exceeds VIM/VAR specifications

Removal Rating

- $\geq 0.003 \mu\text{m}$

Preconditioned Cleanliness

- < 10 ppb moisture contribution (Qualified per SEMASPEC test method #90120397B-STD)
- < 10 ppb THC contribution (Qualified per SEMASPEC test method #90120396B-STD)
- < 10 ppb O₂ contribution (Qualified per SEMASPEC test method #90120398B-STD)
- < 1 particle/(ft³ or m³) particle contribution above background

Connections

- $\frac{1}{2}$ " Gasket Seal, Male/Male (VCR² or compatible)

Operating Conditions

- Maximum Operating Pressure: 750 psig @ 100°F/52 bar @ 38°C
550 psid @ 800°F/38 bar @ 426°C for inert gases only
- Maximum Forward Differential Pressure: 30 psid @ 68°F/2.1 bar @ 20°C
15 psid @ 800°F/1 bar @ 426°C inert gases only

Particle Removal Characteristics

- 10⁹ particle reduction up to 320 slpm/11.3 scfm

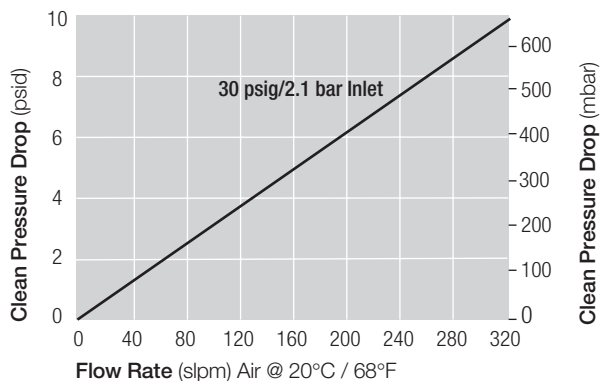
Leak Rating

- 100% helium leak tested to 10⁻⁹ atm·cm³/s
- Design validated to 10⁻¹¹ atm·cm³/s

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

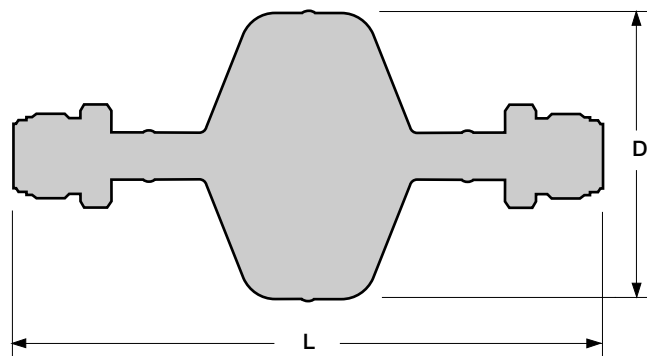
² VCR is a registered trademark of Swagelok Co.

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, $\leq 10 \mu\text{in} / 0.25\text{mm } R_a$	6.06 / 154	3.02 / 76.7
GLFF6602VMM8	½" Gasket Seal (VCR or Compatible) Male/Male, $\leq 0.7 \mu\text{m } R_{\text{max}}$	6.06 / 154	3.02 / 76.7

Unit conversion: 1 bar = 100 kilopascals



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