

## Gaskleen® Light Series Filter Assemblies

### Description

Gaskleen Light filter assemblies have been designed specifically to provide the high-purity gas filtration required in solar cell and liquid crystal display manufacturing. The assemblies are available in two styles: the TFA3 has a high-flow, compact design, for use where space is limited; the TFA6 is designed for applications where higher flow capacity is desired.

- 316L stainless steel electropolished housing
- All-fluoropolymer filter cartridge
- High temperature and pressure capabilities
- 100% integrity tested
- Cleanroom manufactured and packaged
- 100% helium leak tested
- Minimized packaging reduces waste while maintaining product purity

### Specifications

<b>Materials</b>	<ul style="list-style-type: none"> <li>• Medium: PTFE</li> <li>• Support: TFA3: None (S)TFA6: Fluoropolymer</li> <li>• Core and end caps: PFA</li> <li>• O-ring: TFA3: FEP encapsulated fluorocarbon (S)TFA6: None</li> </ul>
<b>Removal Rating<sup>1</sup></b>	<ul style="list-style-type: none"> <li>• <math>\geq 3</math> nm</li> </ul>
<b>Connections</b>	<ul style="list-style-type: none"> <li>• <math>\frac{1}{4}</math> in, <math>\frac{1}{2}</math> in or <math>\frac{3}{4}</math> in gasket seal (VCR<sup>2</sup> or compatible)</li> <li>• <math>\frac{1}{4}</math> in, <math>\frac{3}{8}</math> in or <math>\frac{1}{2}</math> in compression fittings</li> </ul>
<b>Operating Conditions</b>	<ul style="list-style-type: none"> <li>• Maximum operating pressure TFA3: 20.7 MPa at 122°C / 3,000 psig at 250°F (S)TFA6: 5.2 MPa at 140°C / 750 psig at 284°F</li> <li>• Maximum allowable forward differential pressure TFA3: 0.6 MPa at 21°C / 80 psid at 70°F (S)TFA6: 0.7 MPa at 20°C / 100 psid at 68°F</li> </ul>



#### Operating Conditions

- Maximum allowable reverse differential pressure  
TFA3: 0.3 MPa at 21°C / 50 psid at 70°F  
(S)TFA6: 0.3 MPa at 20°C / 50 psid at 68°F
- EU Pressure Equipment Directive:  
TFA3: Assemblies have been evaluated and designed using SEP per the European Union's Pressure Equipment Directive 97/23/EC and are not CE marked.  
(S)TFA6: Assemblies have been evaluated for compliance with the European Union's Pressure Equipment Directive 97/23/EC and are CE marked.

#### Leak Rating

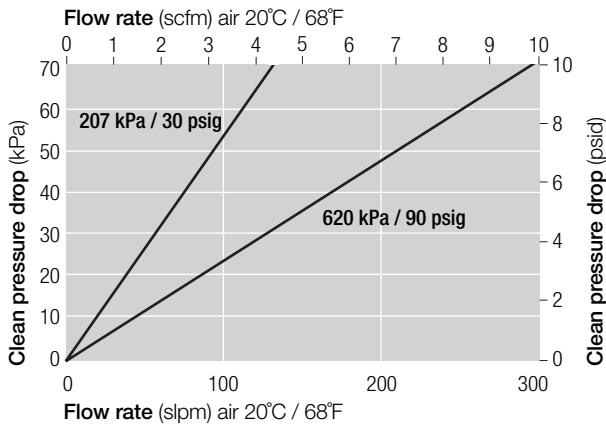
- 100% helium leak tested to  $10^{-9}$  atm-cm<sup>3</sup>/s

<sup>1</sup> Particle rating is based on laboratory testing with NaCl aerosol.

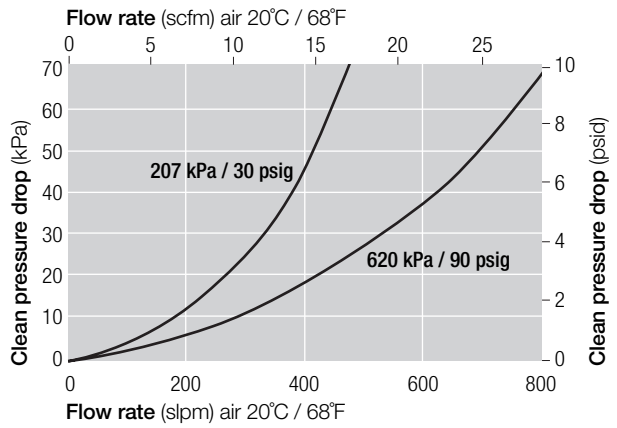
<sup>2</sup> VCR is a registered trademark of Swagelok Company

# Pressure Drop vs. Air Flow Rate

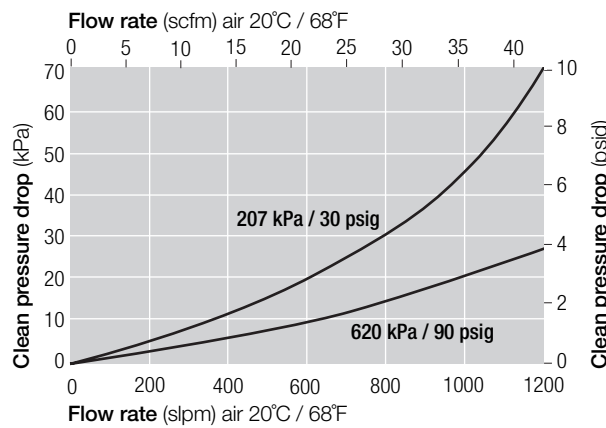
TFA3VMM4



TFA6VMM4 / STFA6SM4

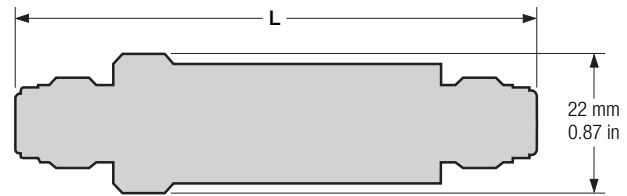


TFA6VMM8 / TFA6VMM12 / STFA6SM8

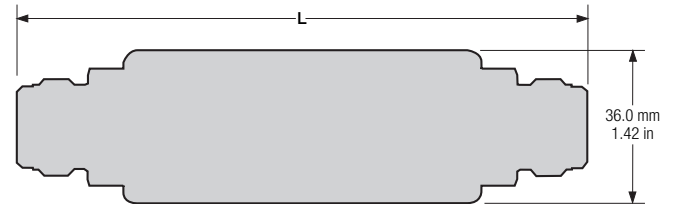


## Nominal Dimensions

TFA3



TFA6 / STFA6



## Part Numbers / Ordering Information

Part Number	Description	Nominal Length (L) (mm / in)
TFA3VMM4	¼ in gasket seal, (VCR or compatible) male / male	84 / 3.31
TFA6VMM4	¼ in gasket seal, (VCR or compatible) male / male	127 / 5
TFA6VMM8	½ in gasket seal, (VCR or compatible) male / male	127 / 5
TFA6VMM12	¾ in gasket seal, (VCR or compatible) male / male	140 / 5.5
STFA6SM4	¼ in compression seal, (Swagelok or compatible) male / male	113 / 4.4
STFA6SM6	¾ in compression seal, (Swagelok or compatible) male / male	118 / 4.6
STFA6SM8	½ in compression seal, (Swagelok or compatible) male / male	119 / 4.7

Unit conversion: 100 kilopascals = 1 bar



Pall Corporation

Microelectronics

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

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