Gaskleen® Light Series Filter Assemblies

Data Sheet MEGLENc

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.

Features & Benefits

- 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

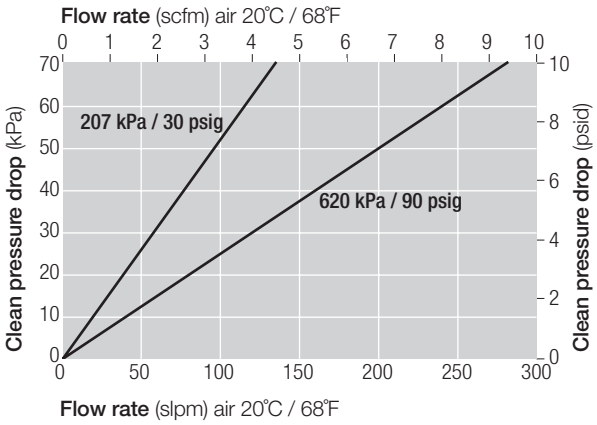
Filter Medium		PTFE
Support	**TFA3**	None
	(S)TFA6	Fluoropolymer
Core and End Caps		PFA
O-ring	**TFA3**	FEP encapsulated fluorocarbon
	(S)TFA6	None
Removal Rating[1]		≥ 3 nm
Connections		¼" , ½" or ¾" gasket seal (VCR[2] or compatible)
		¼" , ⅜" or ½" compression fittings
Maximum Operating Pressure	**TFA3**	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
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
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 2014/68/EU and are not CE marked.
	(S)TFA6	Assemblies have been evaluated for compliance with the European Union's Pressure Equipment Directive 2014/68/EU and are CE marked.
Leak Rating		100% helium leak tested to 10^{-9} atm-cm³/s

[1] Particle rating is based on laboratory testing with NaCl aerosol.

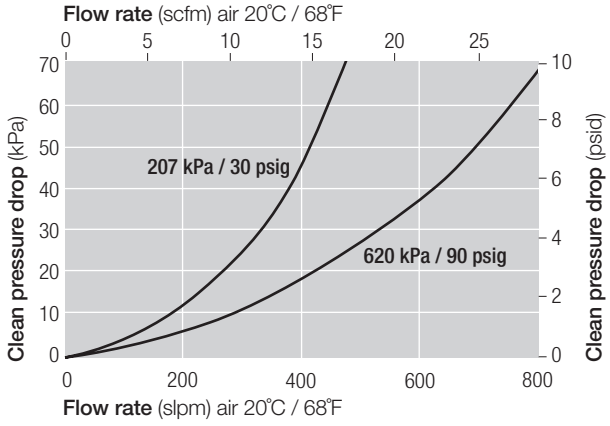
[2] VCR is a registered trademark of Swagelok Compan

Pressure Drop vs. Gas Flow Rate

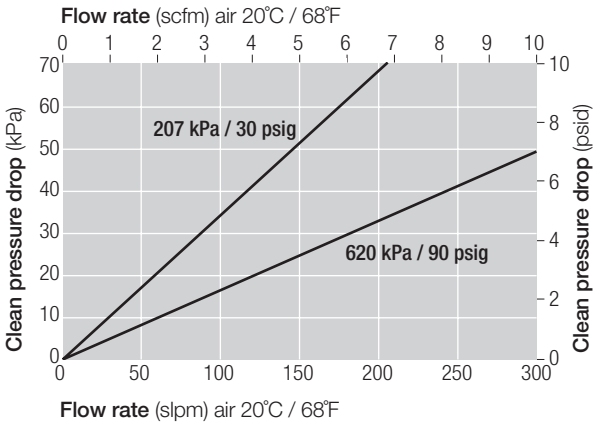
TFA3VMM4



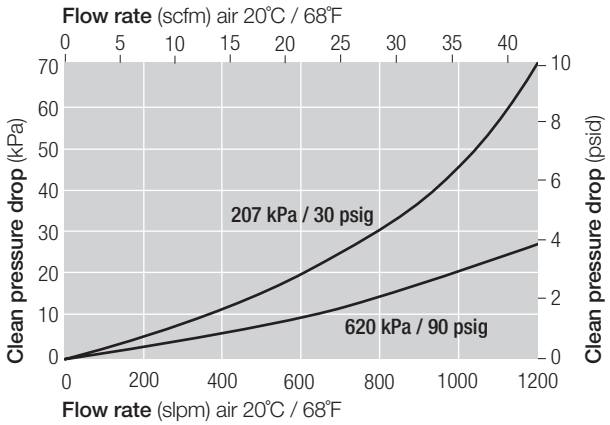
TFA6VMM4 / STFA6SM4



TFA3VMM68ELBJ

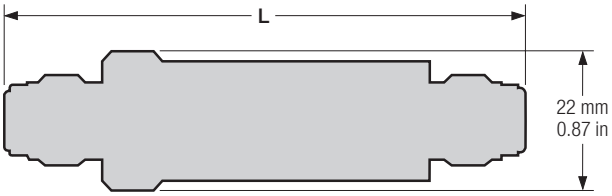


TFA6VMM8 / TFA6VMM12 / STFA6SM8

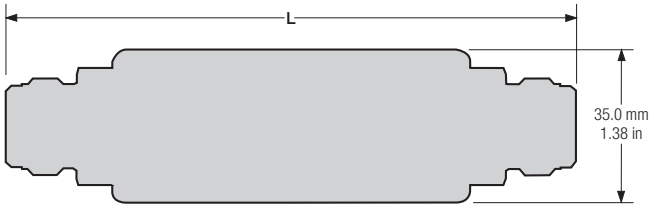


Dimensions

TFA3



TFA6 / STFA6



Part Numbers / Ordering Information

Part Number	Description	Nominal Length (L) (mm / in)
TFA3VMM4	¼" gasket seal, (VCR or compatible) male / male	84 / 3.31
TFA3VMM68ELBJ	⅜" or ½" gasket seal, (VCR or compatible) male / male	127 / 5
TFA6VMM4	¼" gasket seal, (VCR or compatible) male / male	127 / 5
TFA6VMM8	½" gasket seal, (VCR or compatible) male / male	127 / 5
TFA6VMM12	¾" gasket seal, (VCR or compatible) male / male	140 / 5.5
STFA6SM4	¼" compression seal, (Swagelok or compatible) male / male	113 / 4.4
STFA6SM6	⅜" compression seal, (Swagelok or compatible) male / male	118 / 4.6
STFA6SM8	½" compression seal, (Swagelok or compatible) male / male	119 / 4.7

Unit conversion: 100 kilopascals = 1 bar

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