

Gaskleen® TM Filter Assembly

1 1/8 " C-Seal (1.5 nm)



Data Sheet MEGTMCENC

Description

Pall's Gaskleen™ filter assemblies are designed for ≥ 1.5 nm filtration of semiconductor process gases. The top mount filter is ideally suited for integrated gas delivery systems, providing easy access and changeout.

Features & Benefits

- 316L stainless steel housing
- State-of-the-art filter medium
- High temperature and pressure capabilities.
- Excellent gas displacement and desorption characteristics
- 100 % helium leak tested
- Manufactured and packaged in a cleanroom environment



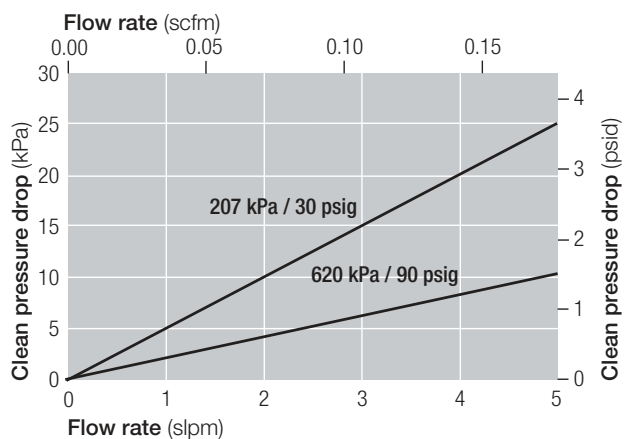
Specifications

Filter Medium	GTMF1013CC4	316L stainless steel
	GTMF3700CC4	
	GTMN1013CC4	Nickel
	GTMP3101CC4	PTFE
Core and End Caps (GTMP3101CC4)	PFA	
O-ring (GTMP3101CC4)	FEP encapsulated fluorocarbon	
Internal Surface Finish	$\leq 5 \mu\text{in } R_a / 0.13 \mu\text{m}$	
Internal Housing Surface Chmistry	Cr:Fe (1:1) chromium-enriched	
Housing	316L stainless steel	
	Housing material meets or exceeds VIM / VAR specifications	
Removal Rating	≥ 1.5 nm	
Particle Removal Characteristics	GTMF1013CC4	10^9 particle reduction up to 5 slpm
	GTMN1013CC4	10^9 particle reduction up to 3 slpm
	GTMP3101CC4	10^9 particle reduction up to 75 slpm
	GTMF3700CC4	10^9 particle reduction up to 100 slpm

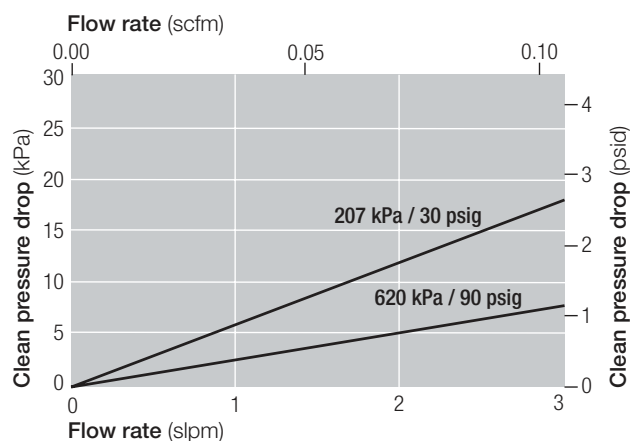
Connections	C-Seal, 1 1/8 " interface
Leak Rating	100% helium leak tested to 10^{-9} atm cm^3 / s Design validated to 10^{-11} atm cm^3 / s
Design Pressure (Maximum Operating Pressure)	3.5 MPa @ 100 °C / 500 psig @ 212 °F
Maximum Allowable Differential Pressure	GTMF1013CC4 / GTMN1013CC4 / GTMF3700CC4 0.7 MPa @ 38 °C / 100 psid @ 100 °F
	GTMP3101CC4 0.6 MPa @ 121 °C / 80 psid @ 250 °F
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.

Pressure Drop vs. Air Flow Rate (20 °C / 68 °F)

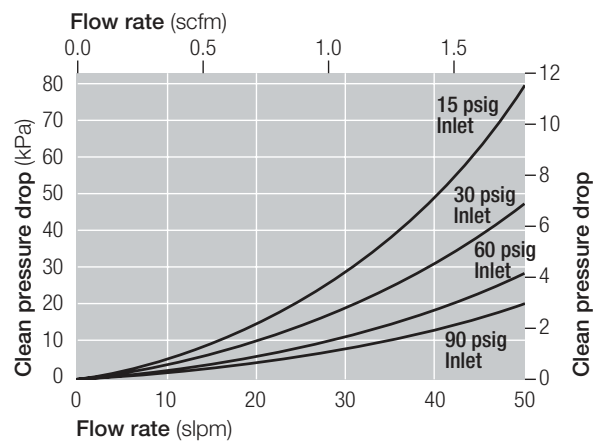
GTMF1013CC4



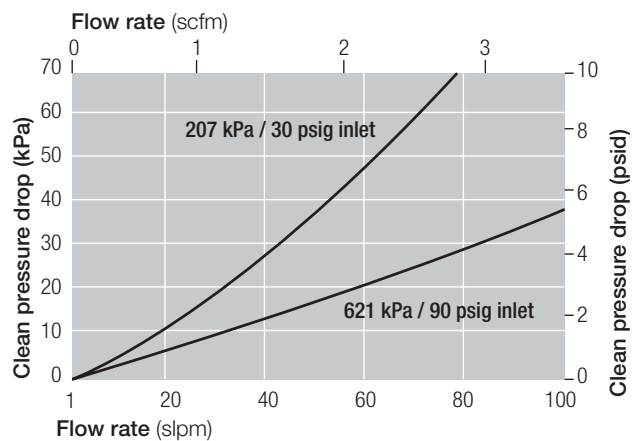
GTMN1013CC4



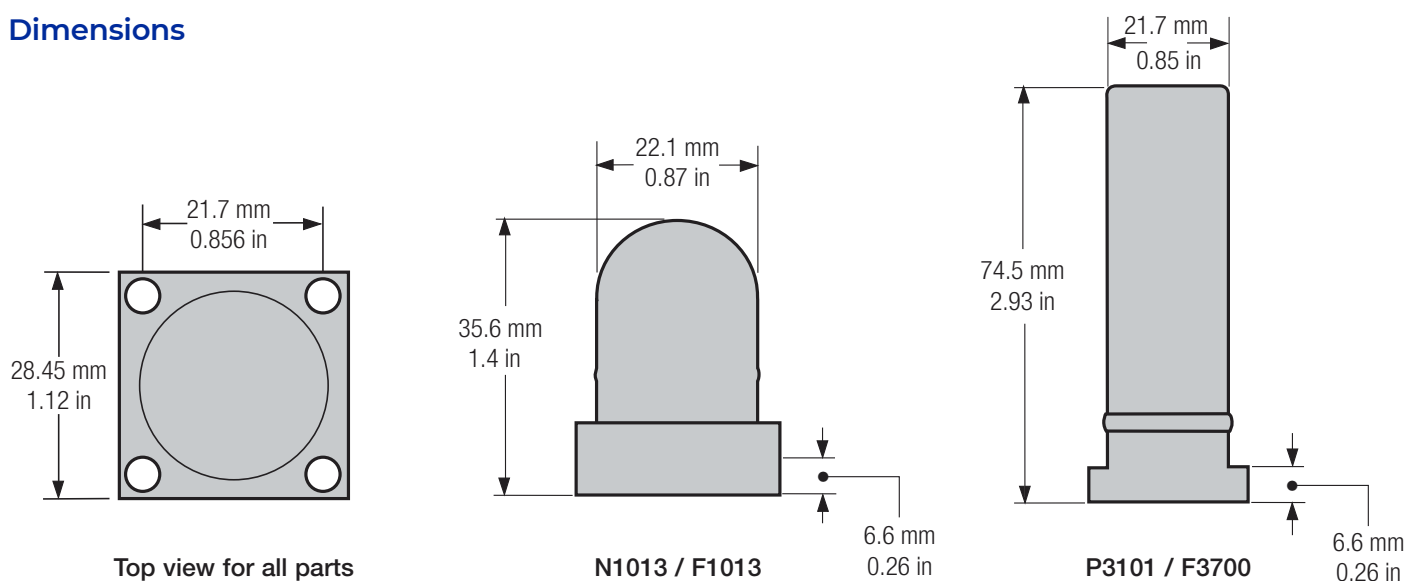
GTMP3101CC4



GTMF3700CC4



Dimensions



Part Numbers / Ordering Information

Part Number	Description	Nominal Height (mm / in)	Nominal Shell Diameter (mm / in)	Design Flow Rate (slpm)
GTMF1013CC4	All 316 L stainless steel	35.6 / 1.4	22.1 / 0.87	0 – 5
GTMN1013CC4	316 L stainless steel housing Nickel filter	35.6 / 1.4	22.1 / 0.87	0 – 3
GTMP3101CC4	316 L stainless steel housing All fluoropolymer element	74.5 / 2.93	21.7 / 0.85	0 – 75
GTMF3700CC4	All 316 L stainless steel	74.5 / 2.93	21.7 / 0.85	0 – 100