

Ultra High Purity Gas Filter



Catalog No. U-GF
JAN. 2013



To meet the requirements of SEMI E49.8-96, the Uni-Lok GF Series gas filter is optimized for gas filtering applications.

Uni-Lok GF Series is made up of 316L VAR stainless steel housing and sintered construction filter that will be the best solution for UHP application.

Features

- Sintered Construction 316L SS filter.
- Fully welded and compact designed body.
- High particle removal efficiency.
- High differential pressure rating.
- All Stainless steel housing.
- 100% Helium leak tested.

Specification

Removal Rating	> 99.9999999% at 0.003 μ m
Rated Flow	15 SLPM
	30 SLPM
	60 SLPM
Max. Working Pressure	206 bar (3000 psig)
Max. Operating Temperature	Ambient to 400°C
External Leakage Allowance - He	$\leq 1 \times 10^{-9}$ atm.cc/s

Internal Surface Finish Levels

Grade		EP
Body		316L SS Single Melting
		316L SS Double Melting
Filter Element		316L SS
Surface Roughness	Average	< 0.125 μ m

Helium Leak Test

Every GF series filters are inboard helium leak tested to a rate of 1×10^{-9} cm³/sec at seat and all seals.

Cleaning

All components are precisely cleaned with 18M Ω deionized water after the passivation procedure in accordance with our own UHP cleaning process (UNIP-705-38) Reference specification : SEMI E49.6.

Packaging

Each component is double bagged to ensure component cleanliness and to protect them from environmental contamination.

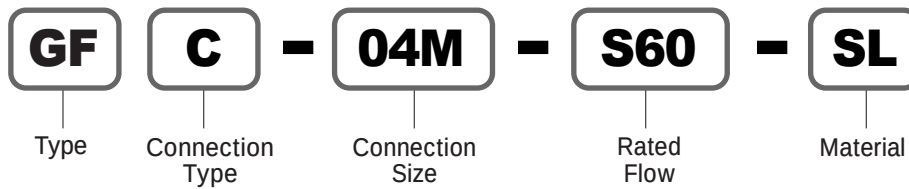
Referenced specification : SEMI E49.1.

Important Notification

Proper installation, materials compatibility, operation and maintenance of these valves are the responsibility of the user. The total system design must be taken into consideration to ensure optimal performance and safety.

Overall process of testing, cleaning, assembling and packaging for every GF series filters are performed in a certified clean room.

How To Order



Type	
GF	Gas Filter

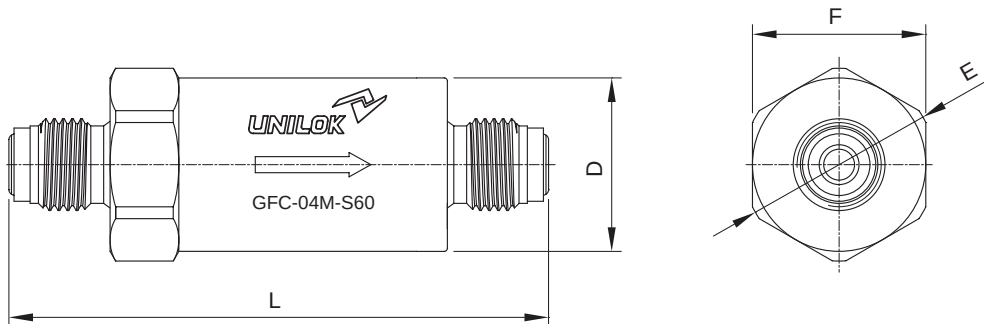
Connection Type	
U	Uni-Lok Tube Fitting
C-*M	Male UCR

Connection Size		
Fractional(Inch) Tube O.D. Designation		
Tube O.D.	inch	1/4
	mm	6.35
Designator		04T
UCR (Metal Face Seal) Size Designator		
UCR Size		1/4
Designator		04M / 04F

Rated Flow (SLPM)	
S15	15 SLPM
S30	30 SLPM
S60	60 SLPM

Materials	
DM	316L SS-Double Melting
SM	316L SS-Single Melting
SL	316L SS

Ordering Information & Dimensions



Part No.		End Connections		Dimensions (mm)			
		Inlet	Outlet	L	D	F	E
GF	U-04T-S15	Uni-Lok Tube Fitting		73	27	26.98	30
	C-04M-S15	Male UCR		84			
	U-04T-S60	Uni-Lok Tube Fitting		73			
	C-04M-S60	Male UCR		84			
	C-08M-S60	Male UCR		91			

Dimensions are for reference only and are subject to change without prior notice.

(주) 유니락



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