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 fiter 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 best sloution 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	>99.999999% at 0.003μm		
	15 SLPM		
Rated Flow	30 SLPM		
	60 SLPM		
Max. Working Pressure	206 bar (3000 psig)		
Max. Operating Temperature	Ambient to 400°C		
External Leakage Allowance - He	≤1x10 ⁹ atm.cc/s		

Interials Surface Finish Levels

Grade		EP		
Body		316L SS Single Melting		
		316L SS Double Melting		
Filter Element		316L SS		
Surface Roughness Averge		< 0.125μm		

Helium Leak Test

Every GF series filters are inboard helium leak tested to a rate of 1x10° cm³/sec at seat and all seals.

Cleaning

All components are precisely cleaned with 18Mo 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.

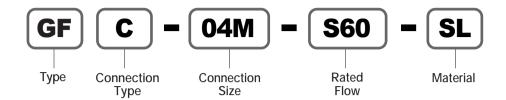
Referenced specification: SEMI E49.1.

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



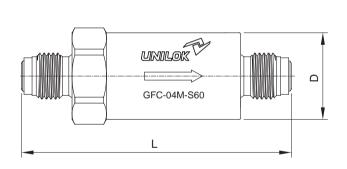
Туре				
GF	F Gas Filter			
Connection Type				
U	Uni-Lok Tube Fitting			
C-*M	Male UCR			

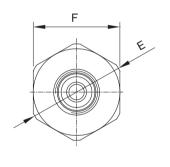
Connection Size				
Fractional(Inch) Tube O.D. Designation				
Tube O.D.	inch	1/4		
	mm	6.35		
Designator		04T		
UCR (Metal Face Seal) Size Designator				
UCR Size		1/4		
Designator		04M / 04F		

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
	U-04T-S15	Uni-Lok T	ube Fitting	73			
GF	C-04M-S15	Male UCR		84	27	26.98	30
	U-04T-S60	Uni-Lok Tube Fitting		73			
	C-04M-S60	Male UCR		84			
	C-08M-S60	Male	Male UCR				

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



















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