

**H-GCF GAS FILTER HOUSINGS**

Gas filter housings for air/gas filtration in biotechnology, chemical, electronic, and food & beverage industries

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## GAS FILTER HOUSINGS FOR AIR/GAS FILTRATION

H-GCF Gas Filter Housings are designed for air/gas filtration in biotechnology, chemical, electronic, and food & beverage industries.

The housings are compatible with standard cartridges to meet the requirements of air/gas filtration. Features include mechanical polishing with a Ra of 15 µin (0.3 µm), easy-to-clean, and thorough drainage which eliminates concerns about remaining liquids. Electro-polishing finish is also an available option.

FEATURE	BENEFIT
<b>Designed for cartridges</b>	Provides safe and secure sealing of cartridges with 226, 222, and DOE cartridges
<b>Quality surface finishing</b>	With an internal Ra of 0.38 µm (15 µin.) and external Ra of 0.4 µm (16 µin), the sanitary surface finish prevents entrapment or build-up of contaminants. All electro-polishing is also available
<b>Vent and drain options</b>	Available with vent and drain options to allow easy clean and thorough drainage.
<b>Standard housing options</b>	Housing flange connections are designed in accordance with international standards to allow connection to industry-standard connections.

## SPECIFICATIONS

<b>Surface finish</b>	Polish Type: Mirror Polish; Internal Electro-polished option Surface Option: Internal Ra: 0.38 µm (15 µin.) External Ra: 0.4 µm (16 µin.)
<b>Housing body, Vent/Drain</b>	304; 316L
<b>Clamp, Leg</b>	304
<b>O-ring/gaskets</b>	Silicone, FKM, EPDM
<b>Max. operating pressure</b>	Design Pressure X: 0.6 MPa (6 bar, 87 psi) Design Pressure Y: 1.0 MPa (10 bar, 145 psi) Design Pressure Q: 1.4 MPa (14 bar, 203 psi)
<b>Max. operating temperature</b>	90°C (194°F) / Design temperature: 140°C
<b>In-line steam sterilization</b>	In-situ / Autoclave for 30 minutes at 121°C
<b>Body connection</b>	Tri-clamp, strengthened clamp
<b>Inlet/Outlet</b>	Tri-clamp, Flange, Butt weld
<b>Drain</b>	1/4" Male NPT, 1/2" Tri-clamp
<b>Bowl Vent</b>	1/4" Female NPT, Tri-clamp



## Typical Applications

- Gas filtration

## DIMENSIONS

### DIMENSION A

	TRI-CLAMP with Threaded Vent/Drain Fitting	TRI-CLAMP with Tri-Clamp Vent/Drain (-T)	FLANGE with Threaded Vent/Drain Fitting
5"	227 mm (8.94")	227 mm (8.94")	220 mm (8.66")
10"	337 mm (13.27")	337 mm (13.27")	330 mm (12.99")
20"	597 mm (23.50")	597 mm (23.50")	590 mm (23.23")
30"	847 mm (33.35")	847 mm (33.35")	840 mm (33.07")

  

## ORDERING INFORMATION

EXAMPLE: **H-GCF0110SSTT25EXP** = 1 round, 10", 316L, 226, Tri-clamp, 1" TC I/O, with EPDM seals, mirror polish, 87 psi max, pharmaceutical

**H-GCF**

**Material**  
**F** = 304  
**S** = 316L

**Filter Length**  
**05** = 5"  
**10** = 10"  
**20** = 20"  
**30** = 30"

**Number of Filters**  
**01** = 1 round  
**03** = 3 round  
**05** = 5 round

**Vent and Drain Connection**  
 — (Blank) = Base Drain (1/4" Male NPT)  
 Bowl Vent (1/4" Female NPT)  
 -T = Bowl Vent (1" Sanitary Tri-Clamp)  
 Base Drain (1/2" Sanitary Tri-Clamp)

**Cartridge Configuration**  
**S** = 226  
**D** = DOE  
**T** = 222

**Housing Connection**  
**T** = Tri-Clamp  
**F** = Flange

**Inlet/Outlet**  
**T15** = 1/2" Sanitary Tri-clamp  
**T20** = 3/4" Sanitary Tri-clamp  
**T25** = 1" Sanitary Tri-clamp  
**T38** = 1.5" Sanitary Tri-clamp  
**T50** = 2" Sanitary Tri-clamp  
**F25** = 1" Flange, 150# ANSI  
**F32** = 1.5" Flange, 150# ANSI  
**F50** = 2" Flange, 150# ANSI  
**F100** = 4" Flange, 150# ANSI  
**H25** = 1" Butt weld  
 \*other options for 3 and 5 round available

**Seal Material**  
**S** = Silicone  
**E** = EPDM  
**V** = FKM  
**F** = PTFE

**Surface Finish**  
**A** = Mechanical Mirror Polish  
**B** = Additional Internal Electro-polished

**Design Pressure**  
**X** = 0.6 MPa (87 psi)  
**Y** = 1.0 MPa (145 psi)  
**Q** = 1.4 MPa (203 psi)

**Application**  
**P** = Pharmaceutical  
**F** = Food and Beverage  
**C** = Chemical  
**E** = Electronics



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