

Filter Housings

Quality Housings

GE Water & Process Technologies stainless steel filter housings are precision engineered to protect your filter investment and improve the overall performance of your system. GE offers a complete line of housings, including:

- Industrial Value (NDV)
- Industrial (ND)
- Sanitary (SN)
- HX Series (HX)

Made with stainless steel construction, GE housings provide proven corrosion resistance and strength - making them capable of handling frequent on/off cycling or harsh chemical environments.

GE housings are of the highest quality standards and available in various configurations to accept many styles of cartridges.

Custom-Designed Housings

Our standard products have drawings ready today with quick deliveries. We also offer custom designed housings with modifications engineered to meet your application needs. Contact our sales or customer service representatives to discuss options, pricing and delivery.

Table 1: Gasket and O-Ring Material Temperature Range

Gasket/O-Ring Material	°F Range	°C Range
Buna-N	-40 to +250	-40 to +121
Viton ¹	-15 to +400	-26 to +204
Silicone ²	-80 to +450	-62 to +232
EPDM, EPR	-65 to +300	-54 to +149
PTFE, Teflon ¹	-65 to + 500	-54 to +260

¹Viton and Teflon is a registered trademark of Dupont

²Gasket and O-ring material not available for the HX Series housings.

Industrial Value (NDV) Housings

Specifically designed for small and large capacity, general purpose filtration.



Figure 1: NDV Housing

Housing Features

- Designed for extremely cost-sensitive applications.
- Engineered for filtration applications involving chemical systems, general prefiltration, process water and final product purification.
- Constructed of corrosion-resistant 304 or 316 series stainless steel to ensure longevity and system purity.
- All wetted surfaces are electropolished for trouble-free maintenance and easy cleaning. (Mill finish is available as a more economical option.)
- T-Style and offset housing configurations available.



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Design Capabilities

Our NDV filter housing designs are fabricated to Non-Code American Society of Mechanical Engineers (ASME) for applications where cost is the primary driver.

Surface Finishes

All wetted and external surfaces are electropolished for ease of maintenance and to minimize contamination. (Mill finish is available as a more economical option.)

Table 2: Specifications

Materials	304 and 316 series stainless steel. Buna-N O-Rings standard (other compounds available)
Closure	1 round: Cover Nut 4 - 21 round: Swing Bolt 4 - 21 round: V-Band
Filter Connections	1 round: DOE 4 - 21 round: 222/DOE Universal Cup

Table 3: Housing Size

Housing Size	1 round	4, 5, 7 round	12 round	21 round
Filter Length (inch)	5, 10, 20, 30	10, 20, 30, 40	20, 30, 40	30, 40

Industrial (ND) Housings

Specifically designed for small to large capacity industrial filtration.



Figure 2: ND Housings

Housing Features

- Engineered for filtration applications involving chemical systems, general pre-filtration, high-purity water and final product purification.
- Constructed of corrosion-resistant 316L series stainless steel to ensure longevity and system purity.
- All wetted surfaces are electropolished for trouble-free maintenance and easy cleaning.
- ND housings are available in ASME Code and Non-Code.
- T-Style and offset housing configurations available.

Design Capabilities

Our Non-Code ND filter housing designs are fabricated to Non-Code ASME for applications where cost is the primary driver.

Our Code-Rated ND housings are fabricated in strict compliance with the ASME Boiler and Pressure Vessel Code, Section VIII, Division I.

Surface Finishes

All wetted surfaces are electropolished to minimize contamination. External surfaces are bead blasted and electropolished for ease of maintenance.

Table 4: Specifications

Materials	304 and 316L series stainless steel. EPDM, EPR O-Rings standard (other compounds available)
Closure	1 round: Heavy Duty Sanitary Clamp 3 - 21 round: Swing Bolt 3 - 21 round: V-Band
Filter Connections	1 round: DOE 3 - 21 round: 222/DOE Universal Cup

Table 5: Housing Size

Housing Size	1 round	3, 5, 7, 12, 21 round
Filter Length (inch)	5, 10, 20, 30, 40	10, 20, 30, 40

Sanitary (SN) Housings

Engineered to meet the most demanding beverage, biotech and pharmaceutical applications.



Figure 3: SN Housings

Housing Features

- Housing designs with 25 Ra standard internal surface finishes and no wetted threaded connections. Options available to 10 Ra finish.
- Engineered for filtration applications involving chemical systems, high-purity, general filtration and final product purification.
- Constructed of corrosion-resistant 316L series stainless steel to ensure longevity and system purity.
- Vent and drain valves configured for easy cleaning and efficient sampling.
- T-Style and in-line housing configurations available.

Design Capabilities

Our SN filter housings are designed to comply with 3A Dairy Standards.

Our SN filter housing standard design is fabricated to Non-Code ASME for applications where cost is the primary factor.

For additional charge, SN filter housings are fabricated in strict compliance with the ASME Boiler and Pressure Vessel Code, Section VIII, Division I.

Surface Finishes

All surfaces are electropolished to minimize contamination and for ease of cleaning. All wetted surfaces are standard 25 Ra. All non-wetted surfaces are 32 Ra.

Table 6: Specifications

Materials	316L series stainless steel. Silicone O-Rings Standard (other compounds available)
Closure	1 round: Heavy-duty Sanitary Clamp 3 - 21 round: Swing Bolt
Filter Connections	Code 7 (226), Code 8 (222)

Table 6: Housing Size

Housing Size	1 round	3, 5, 7, 12, 21 round
Filter Length (inch)	5, 10, 20, 30, 40	10, 20, 30, 40

HX Series (HX) Housings

Specifically designed for small to medium capacity, general purpose filtration.



Figure 4: HX Housings

Housing Features

- Engineered for filtration applications involving chemical systems, general pre-filtration, high-purity water and final product purification.
- One round HX filter housings work well for small industrial applications where cost is the primary consideration.
- The three round HX filter housings are designed for small- to medium-flow industrial applications.
- The seven round HX filter housings are designed for medium-flow industrial applications.
- T-Style and L-Style housing configurations available.

Design Capabilities

Our HX filter housing designs are fabricated to Non-Code ASME for applications where cost is the primary driver. (All HX housings are welded by ASME certified welders.)

Surface Finishes

All HX housings have satin outside finish and mill finish interior.

Table 7: Specifications

Materials	316 series stainless steel. Buna-N O-Ring (other compounds available)
Closure	1, 3, and 7 round: V-Band Clamp
Filter Connections	DOE, Code 8 (222), Cup-and-Post

Table 8: Housing Size

Housing Size	1 round	3 and 7 round
Filter Length (inch)	10, 20	20, 30, 40, 50