

High Flow Cartridge Filter Housings

CAPABILITY PROFILE

Cartridge Filter Horizontal & Vertical Housings

HSG Series Housings

Specifically designed for medium-to-high flow capacity general purpose filtration. Veolia HGS High Flow Cartridge Filter Housings offer flexible and reliable designs that incorporate easily into existing Veolia equipment systems. The single and multi-round housings range from one-round, four-round, and seven-round for High flow filters.



1a) 1R Vertical



1b) 1R Horizontal



1c) 4R Horizontal



1d) 7R Horizontal

Figures: 1a) Single round vertical housing
1b) Single round horizontal housing
1c) 4 round housing
1d) 7-round horizontal housing

FRP Housings

Veolia Fiberglass Reinforced Plastic (FRP) High Flow Cartridge Filter Housings are a low-cost option suitable for brackish and seawater reverse osmosis systems.

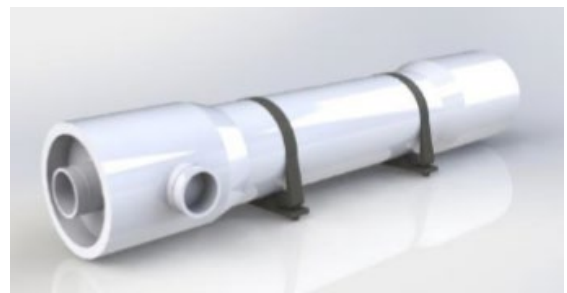


Figure 2: Fiberglass reinforced plastic (FRP) single round housing with straps

Features and Benefits

- Combine superior versatility with maximum value to meet the demands of a variety of applications.
- Engineered for filtration applications involving chemical systems, general pre-filtration, high-purity water, and final product purification
- Several options for certifications: ASME, PED, and ACS; available in multi-round configurations.
- Configuration direction of vertical and horizontal to make optimal use of floor space & accessibility.
- All high flow housings are compatible with Veolia High Flow.Z* filters. Different models can use 40 in or 60 in length filters with 6.5" outer diameter.

Applications

- Various pre-filtration applications
- Brackish and seawater reverse osmosis systems
- Food input water pre-filtration
- Beverage and distillery incoming water
- Pharmaceutical applications
- Cosmetic processing

Design Capabilities

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

Note: All HSG housings are welded by ASME-certified welders.

Specifications

Configuration(s)	Vertical or horizontal
Filters per Housing	1, 4, 7
Filter Cartridge Outer Diameter & Lengths:	
6.5" OD	40 in/ 1016 mm 60 in/ 1254 mm
Materials of Construction	
HSG	304 stainless steel
	316 stainless steel
	Carbon steel
FRP	Fiberglass reinforced plastic
Color	White
Performance Conditions	
Maximum pressure and temperature:	100psid (6.9 bar) @ 150°F (65.6°C)
Differential pressure recommendation:	Change filters at 10 psid: do not go beyond 15 psid
Max Flow per housing:	(40 in) 100-150 gpm (27-40 m³/hr)
	(60 in) 150 gpm (40 m³/hr)

Surface Finishes

All HSG housings have satin outside and mill finish interior.

The FRP housing is made of plastic and therefore does not require additional surface finishes.

Quality

High Flow filter housings are manufactured under a quality management system that has been certified to meet ISO 9001 standards. Each housing is assigned a serial number to ensure traceability of the data and materials used in the manufacturing process.

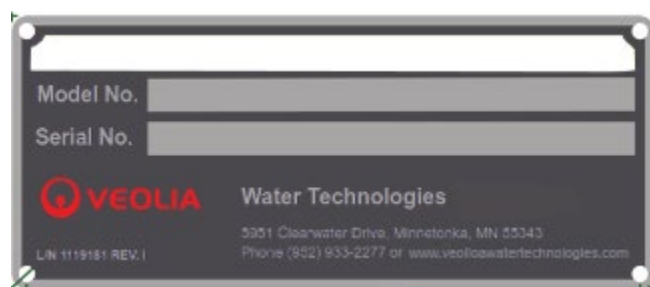


Image 3: Veolia Housing Label

High Flow Housing Certifications

- ASME for some US applications.
- PED for some European applications
- ACS compliance for specific French drinking water applications.
- Food contact requirements
- ISO 9001 criteria

Veolia filter housings are designed and manufactured for usage for a wide range of chemical solutions. Conditions will vary with each application, and users should carefully verify chemical compatibility. Please contact your Veolia representative for more information.

High Flow Housing Ordering Information

The different high flow housings are listed below with part number configuration examples.

All filter housings are compatible with the Veolia High Flow.Z Cartridge filter. Flow meters, valves and gauges are sold separately.

High Flow Housing Ordering Information

Example of HF housing with certification: HSG, HFZ,1R40316SS,H,ASME

Product Code Stamped	Filters per Housing	Cartridge Filter Length	Materials	Orientation	Certifications
HSG, HFZ	1R = 1 Cartridge 4R = 4 Cartridges 7R = 7 Cartridges	40 = 40 in 60 = 60 in	C = Carbon steel 304SS = 304 stainless steel 316SS = 316 stainless steel	V = Vertical H = Horizontal	ASME = American Society of Mechanical Engineering (US only) PED = Pressure Equipment Directive (EU only) ACS = Attestation De Conformité Sanitaire (France only)

Example of HX housing: HSG, HXHF0140-3.0V-316-A

Product HX	Filters per Housing	Cartridge Filter Length	Inlet/Outlet Size	Connection Type	Material
HX =HSG, HXHF	01 = 1 Cartridge	40 = 40 in	2.0 = 2 in 3.0 = 3 in	T = MNPT (standard) V = Victaulic (option) F = Flange (option)	316= 316 stainless steel

Example of FRP housing HSG-FLT,FRP,1RD,3.0MC,40,HFZ,150PSI,ASME

Product FRP	Filters per Housing	Inlet/Outlet Size	Connection Type	Cartridge Filter Length	Filter Type	Pressure Requirements	Certifications
FRP= HSG-FLT, FRP	1R = 1 Cartridge	3.0 = 3 in 4.0 = 4 in	MC = Mechanical Coupling	40 = 40 in 60 = 60 in	HFZ = High Flow.Z (Veolia) or similar High flow filter	100PSI = 100 psi 150PSI = 150 psi	ASME = American Society of Mechanical Engineering (US only) Blank = none



Code Stamped 4 Round
Horizontal Housing

Code Stamped 1 Round
Horizontal Housing

HX 1 Round
Vertical
Housing

Code Stamped 7 Round
Horizontal Housing

FRP 1 Round
Horizontal Housing

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