



H-SCF-A/B Single-Round Sanitary Housings

Single-round, T-style,
Easy in Cleaning

H-SCF-A Sanitary Filter Housing specifically designed as a single-round filter housing for low volume liquid filtration. It is part of the H-SCF Filter Housing Series.



Strongly recommended for use in life science filtration applications, it meets sanitary requirements and GMP standards. Features include mechanical polishing with a Ra of 0.3µm, easy-to-clean, and thorough drainage, which eliminates concerns about remaining liquids. In addition, electro-polishing finish is also an available option.

Design Features

- Quality surface finishing - Internal Ra: 0.3µm; External Ra: 0.4µm. Sanitary design prevents entrapment or build-up of contaminants. All electro-polishing is also available.
- Vent & Drain: Threaded sleeve is separated by a stepped thread so that the connection tube will not wave when in draining or venting operation.
- Enlarged vent and drain - internal diameter connects with an 8mm tube.
- Quick-release closure clamp allows for quick disassembly – our sectional closure clamps increase pressure endurance by 20% compared to normal clamps.
- When running at high operating pressure, quick-release closure clamps provide perfecting sealing for PTFE o-rings. Max. Operating Pressure can reach 10 bar.
- Adjustable nut on the legs allows for filter length to be adjusted.



Surface Finish

Polish Type	Mirror Polish; Internal Electro-polished
Surface Option	Internal Ra: 0.38µm; External Ra: 0.4µm

Material of Construction

Housing Body	304;316L
Vent/Drain	304;316L
Clamp	304
Leg	304
O-ring / Gaskets	Silicon, Viton, EPDM, PTFE

Operating Conditions

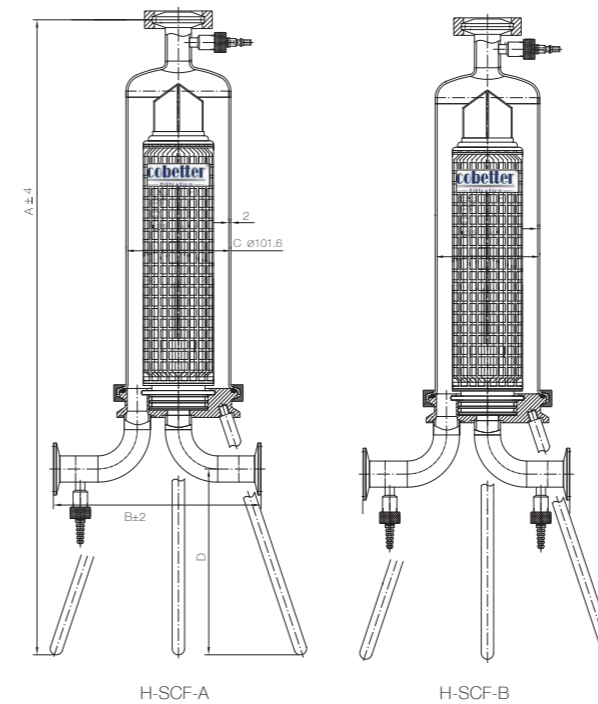
Max. Operating Pressure	0.6Mpa (6bar)
Max. Operating Temperature	90°C (194°F) / Design Temperature: 140°C
Steam Sterilization	In-situ / Autoclave @ 121°C / 30 min

Connection

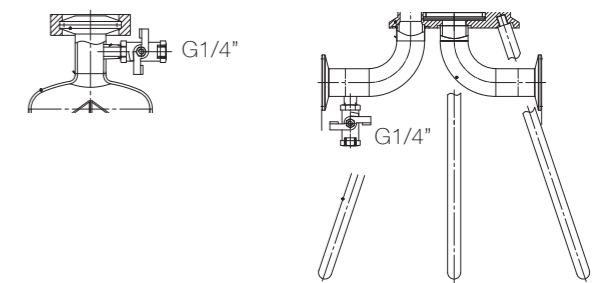
Body Connection	Tri-clamp, Strengthened clamp
Inlet / Outlet	1 inch (DN 25) clamp
Vent	4mm can connect with 8mm tube
Drain	4mm can connect with 8mm tube
Pressure Gauge	1.5 inch Tri-clamp

Drawings & Dimensions

For Pharmaceutical & Food and Beverage



For Chemical Application



	1 round 5 inch	1 round 10 inch	1 round 20 inch	1 round 30 inch	1 round 40 inch
A	496	614	864	1114	1364
B	201	201	201	201	201
C	101.6	101.6	101.6	101.6	101.6
D	180	180	180	180	180

Ordering Information

	Number of Filters	Filter Length	Material	End Cap	Housing Connection	Inlet / Outlet	Sealing Materials	Surface Finish	Design Pressure	Application
H-SCF-A	1	05	F	S	I	T25	S	A	X	P
H-SCF-B (Two Drains)	1 1 round	05 5 inch 10 10 inch 20 20 inch 30 30 inch	F 304 S 316L	S 226 T 222 D DOE	T Tri-clamp	T25 Tri-clamp DN 25	S Silicone E EPDM V Viton F PTFE	A Mirror Polish B Internal Electro-polished	X 0.6MPa Y 1.0MPa	P Pharmaceutical F Food and Beverage C Chemical





H-SCF / SDF / SEF / SFF Multi-Round Sanitary Housings

High Flow Rate Sanitary Grade

H-SCF Multi-Round Sanitary Filter Housing designed for liquid filtration with varying flow rates.

Strongly recommended for use in life science filtration applications, it meets sanitary requirements and GMP standards. Features include mechanical polishing with a Ra of 0.3µm, easy-to-clean, and thorough drainage, which eliminates concerns about remaining liquids. In addition, the filter housing is available with a detachable plate for thorough cleaning with strict cleaning requirements.

It is also available in an electro-polish finish for filter housings with 12 rounds or less.



Configurations

- H-SCF: bottom-opening; fixed plated; bottom-in bottom-out flow pattern
- H-SDF: top-opening and bottom-opening; fixed plate; bottom-in bottom-out flow pattern
- H-SEF: bottom-opening; detachable plate; bottom-in bottom-out flow pattern
- H-SFF: top-opening and bottom-opening; detachable plate; bottom-in bottom-out flow pattern

Operating Conditions

Max. Operating Pressure	0.6 Mpa (6 bar) / 1.0 Mpa (10 bar)
Max. Operating Temperature	90°C(194°F)/ Design Temperature: 140°C
Steam Sterilization	In-situ / Autoclave @ 121°C / 30 min

Connection

Body Connection	Flange / Swing Bolt
Inlet / Outlet	Tri-clamp
Vent	Tri-clamp; ID 4mm and for 8mm tube
Pressure Gauge	1.5 inch Tri-clamp

Surface Finish

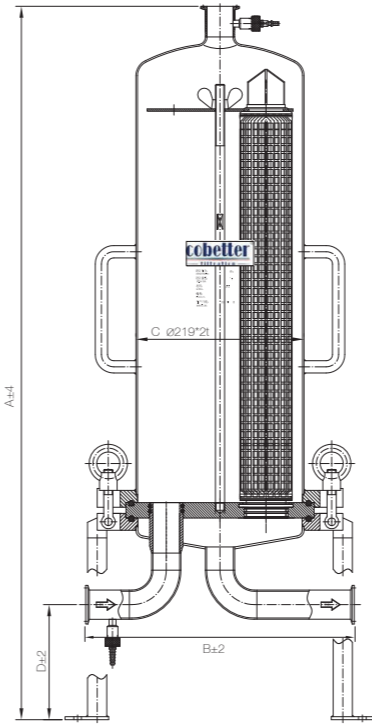
Polish Type	Mirror Polish; Internal Electro-polished
Surface Option	Internal Ra: 0.38µm; External Ra: 0.4µm

Material of Construction

Housing Body	304; 316L
Vent / Drain	304; 316L
Vent Clamp	304
Eyebolt	304
Leg	304
O-ring/Gaskets	Silicon, Viton, EPDM

Design Features

- Ultra-fine polishing - Internal Ra: 0.38µm; External Ra: 0.4 µm. Absolute sanitary polish - all electro-polished finish is available for filter housings with 12 rounds or less.
- Tri-clamp connection for vent, - no blind spots
- Adjustable nuts on legs ensure stable operation
- Detachable plate – optional for complete cleaning in critical applications



Drawings & Dimensions

	3 round				5 round				7 round				9 round		12 round	
	10"	20"	30"	40"	10"	20"	30"	40"	10"	20"	30"	40"	30"	40"	30"	40"
A	680	930	1180	1430	700	950	1200	1450	720	970	1220	1470				
B	350	350	350	350	400	400	400	400	420	420	420	420				
C	219	219	219	219	250	250	250	250	273	273	273	273				
D	150	150	150	150	150	150	150	150	150	150	150	150				
													1280	1530	1300	1500
													480	480	500	500
													325	325	350	350
													150	150	150	150

Ordering Information

	Number of Filters	Filter Length	Material	End Cap	Housing Connection	Inlet / Outlet	Sealing Material	Surface Finish	Design Pressure	Application
H-SCF	<u>3</u>	<u>10</u>	<u>F</u>	<u>S</u>	<u>D</u>	<u>T38</u>	<u>S</u>	<u>A</u>	<u>X</u>	<u>P</u>
H-SDF	03 3 round	10 10 inch	F 304	S 226	D Swing Bolt	T38 Tri-clamp DN38 (3-5 round)	S Silicone	A Mirror Polish	X 0.6MPa	P Pharmaceutical
H-SEF	05 5 round	20 20 inch	S 316L	T 222	C C-Clamp	T50 Tri-clamp DN50 (7-12 round)	E EPDM	B Internal Electro-polished	Y 1.0MPa	F Food and Beverage
H-SFF	07 7 round	30 30 inch		D DOE		F32 Flange DN32 (3-5 round)	V Viton			C Chemical
	09 9 round	40 40 inch				F40 Flange DN40 (7-12 round)	P Encapsulated Viton			
	12 12 round									

Note: Encapsulated Viton is not applicable for H-SEF&H-SFF type Housing





H-SCFC / SDFC / SEFC Multi-Round Sanitary Liquid Filter Housing

High Flow Rate Sanitary Grade

H-SCFC Multi-Round Sanitary Filter Housing specially designed for filtration requiring over 12 filter elements.

Flow redesign with flow pattern of side-in and bottom-out reduce cost when compared to bottom-in bottom-out flow pattern. In addition, top-inlet opening eliminates the need to move the housing body while installing the filter elements, thus reducing filter change-out time.

Rocker arm design makes it easier to move the top cap of the filter housing.

The three-part design and detachable plate allow for a complete cleaning when rigorous cleaning requirements are necessary.

Configurations

H-SCFC: top-opening; fixed plate; side-in and bottom-out flow pattern

H-SDFC: top-opening and bottom-opening; fixed plate; side-in and bottom-out flow pattern

H-SFFC: top-opening and bottom-opening; detachable plate; side-in and bottom-out flow pattern



Surface Finish

Polish Type	Mirror Polish; Internal Electro-polished
Surface Option	Internal Ra: 0.38µm; External Ra: 0.4µm

Material of Construction

Housing Body	304; 316L
Vent / Drain	304; 316L
Vent Clamp	304
Eyebolt	304
Leg	304
O-ring/Gaskets	Silicon, Viton, EPDM

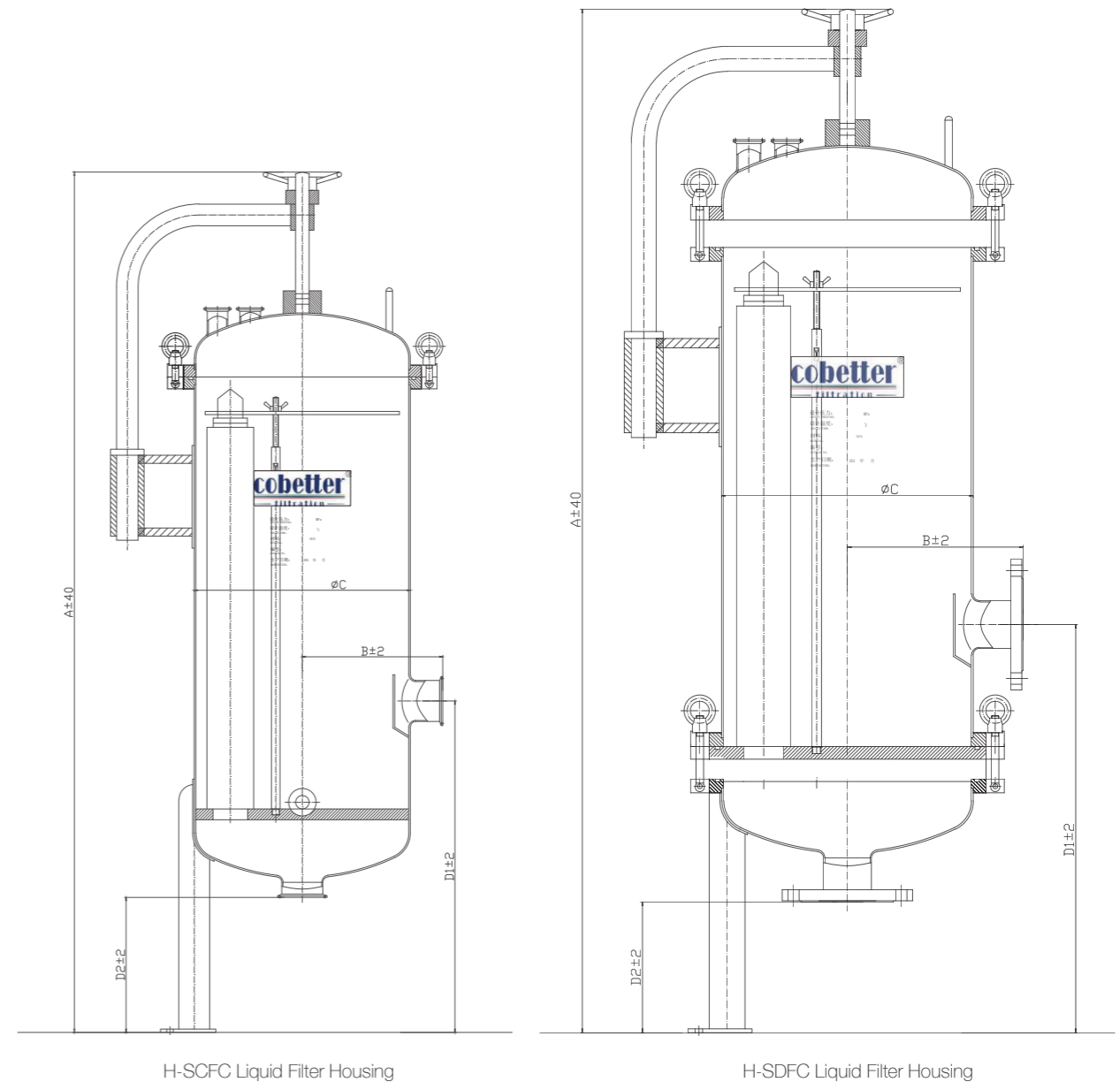
Operating Conditions

Max. Operating Pressure	1.0 Mpa (10 bar)
Max. Operating Temperature	90°C(194°F) / Design Temperature: 140°C
Steam Sterilization	In-situ / Autoclave @ 121°C / 30 min

Connection

Body Connection	Flange (Eyebolt)
Inlet / Outlet	Tri-clamp
Vent	Tri-clamp; ID 4mm and for 8mm tube
Pressure Gauge	1.5 inch Tri-clamp

Drawings & Dimensions



H-SCFC Liquid Filter Housing

H-SDFC Liquid Filter Housing

Ordering Information

	Number of Filters	Filter Length	Material	End Cap	Housing Connection	Inlet / Outlet	Sealing Material	Surface Finish	Design Pressure	Application
H-SCFC	<u>3</u>	<u>10</u>	<u>F</u>	<u>S</u>	<u>D</u>	<u>T50</u>	<u>S</u>	<u>A</u>	<u>X</u>	<u>P</u>
H-SDFC	15 15 round 18 18 round 21 21 round 24 24 round 27 27 round 30 30 round 33 33 round 36 36 round ...	10 10 inch 20 20 inch 30 30 inch 40 40 inch	F 304 S 316L	S 226 T 222 D DOE	D Swing Bolt C C-Clamp	T50 Flange DN50 (15Round) T65 Flange DN65 (18-24Round) F80 Flange DN80 (27-30Round) F100 Flange DN100 (33Round)	S Silicone E EPDM V Viton P Encapsulated Viton	A Mirror Polish B Internal Electro-polished	X 0.6MPa Y 1.0MPa	P Pharmaceutical F Food and Beverage C Chemical





H-SPF/H-SPFII/H-SPFIII In-line Sanitary Filter Housing

Single-Round, In-line-Style,
Easy in Cleaning

H-SPF In-line Sanitary Filter Housing designed and manufactured according to sanitary-grade requirements and GMP standards. Widely used in life-science applications.



Due to the compact design of the top-in and bottom-out flow pattern, we recommend to use the filter housings as vent or pipe connector.

HSPF II Filter Housing designed for filtration with low volume requirements. Small filter elements with 56mm diameter will fit in this housing.

Design Features

- Quality surface finishing - Internal Ra: 0.3µm; External Ra: 0.4µm. Sanitary design prevents entrapment or build-up of contaminants. All electro-polishing is also available.
- Vent & Drain: Threaded sleeve is separated by a stepped thread so that the connection tube will not wave when in draining or venting operation.
- Enlarged vent and drain - internal diameter connects with an 8mm tube.
- Quick-release closure clamp allows for quick disassembly – our sectional closure clamps increase pressure endurance by 20% compared to normal clamps.
- When running at high operating pressure, quick-release closure clamps provide perfecting sealing for PTFE o-rings. Max. Operating Pressure can reach 10 bar.
- Adjustable nut on the legs allows for filter length to be adjusted.



Surface Finish

Polish Type	Mirror Polish; Internal Electro-polished
Surface Option	Internal Ra: 0.38µm; External Ra: 0.4µm

Operating Conditions

Max. Operating Pressure	0.6Mpa (6bar) / 1.0Mpa (10bar)
Max. Operating Temperature	90°C (194°F) / Design Temperature: 140°C
Steam Sterilization	In-situ / Autoclave @ 121°C / 30 min

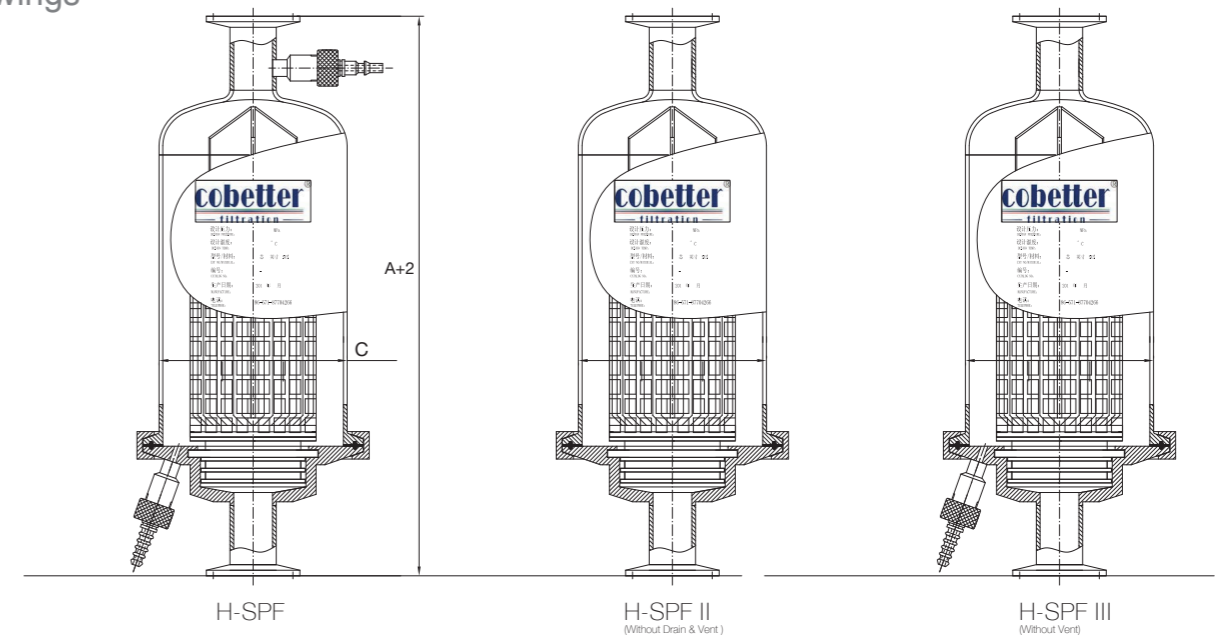
Material of Construction

Housing Body	304;316L
Vent / Drain	304;316L
Clamp	304
O-ring / Gaskets	Silicon, Viton, EPDM

Connection

Body Connection	Tri-clamp, Strengthened clamp
Inlet / Outlet	1 inch (DN 25) clamp
Vent	4mm can connect with 8mm tube
Drain	4mm can connect with 8mm tube

Drawings



Dimensions

		1 round 2.5 inch	1 round 5 inch	1 round 10 inch	1 round 20 inch	1 round 30 inch
A	Height	240	315	425	685	935
C	Diameter	101.6	101.6	101.6	101.6	101.6

Ordering Information

	Number of Filters	Filter Length	Material	End Cap	Housing Connection	Inlet / Outlet	Sealing Material	Surface Finish	Design Pressure	Application
H-SPF	1	05	F	S	I	T25	S	A	X	P
H-SPF II (Without Drain & Vent)	1 1 round	05 5 inch	F 304	S 226	T Tri-clamp	T25 Tri-clamp DN 25	S Silicone	A Mirror Polish	X 0.6MPa	P Pharmaceutical
H-SPF III (Without Vent)		10 10 inch	S 316L	T 222		T38 Tri-clamp DN 38	E EPDM	B Internal Electro-polished	Y 1.0MPa	F Food and Beverage
		20 20 inch		D DOE		T50 Tri-clamp DN 50	V Viton			C Chemical
		30 30 inch								

