

SCE-HB Series

Food & Beverage Sterile Air - 316L SS



Demands for the sterilization of compressed air and gas in the food industry, dairies and breweries are continuously increasing. Complete retention of micro-organisms such as bacteria, viruses and bacteriophages, the largest possible filter area, low differential pressure, and high cost effectiveness are standard requirements that a filter must meet.

As a solution for this application range, Parker domnick hunter specially developed the SCE-HB Series with an absolute retention rate of 0.01 micron in gas and compressed air. With the help of the pleated depth media with a void volume of 95% (PTFE: 85%; PVDF: 67%) the flow rate may be increased several times while maintaining a low differential pressure.

Parker domnick hunter's unique pleated SCE-HB Series has many advantages. The high particle retention capacity increases the life of the SERIES HB filter element while at the same time reducing operating costs. Heat-stabilized polypropylene together with an internal stainless steel core result in high mechanical stability and the hydrophobic PTFE-impregnated filter medium protects against the wetting of the filter medium with condensate or wet steam.

SERIES HB filter elements are revolutionizing sterile air filtration. They offer the user the most cost-effective and reliable filtration.



Contact Information:

Parker Hannifin Corporation
Finite Airtek Filtration Division
New York, USA
T 716 686 6400 F 877 857 3800
Toll Free 1-855-587-9323

Sales Office

Ontario, Canada
T 905 693 3000 F 866 958 1306
Toll Free 1-888-342-2623

www.parker.com/faf

Features & Benefits:

- **Flow efficient range of air/gas housing sizes**
- **Demi (TRUESEAL) and 10" to 30" (226) housing sizes**
- **Designed to maximize flow and minimize pressure drop**
- **Designed specifically for the food & beverage and sanitary process industries**
- **STANDARD product (economy and short delivery lead times)**
- **PLUS product (available in 3 different vessel classes - Standard CE, High Pressure & Oxygen Service)**
- **Standard and sanitary surface finishes available**
- **A number of inlet/outlet port connections**
- **1/4" NPT vent and drain**



ENGINEERING YOUR SUCCESS.

Specifications

STANDARD Range

Materials of Construction

- Housing: 316L Stainless Steel
- Body Seals: Silicone FDA
- Clamps: 304 Stainless Steel

Standard Surface Finish

- Internal: As Welded
- External: Polished 32 μ n Ra

All finishes pickled & passivated.

PLUS Range

Materials of Construction

- Housing: 316L Stainless Steel
- Body Seals: Viton FDA, EPDM FDA, PFE FDA
- Clamps: 304 Stainless Steel

Surface Finish

An improved sanitary finish is available.

- Internal: Better than 32 μ n Ra
- External: 10 μ n Ra

Welding

All assembly welds are full penetration. All welds are crevice and undercut free. Weld finish & detail drawings available upon request.

Certification

Supplied as standard with vessel inspection certificate.

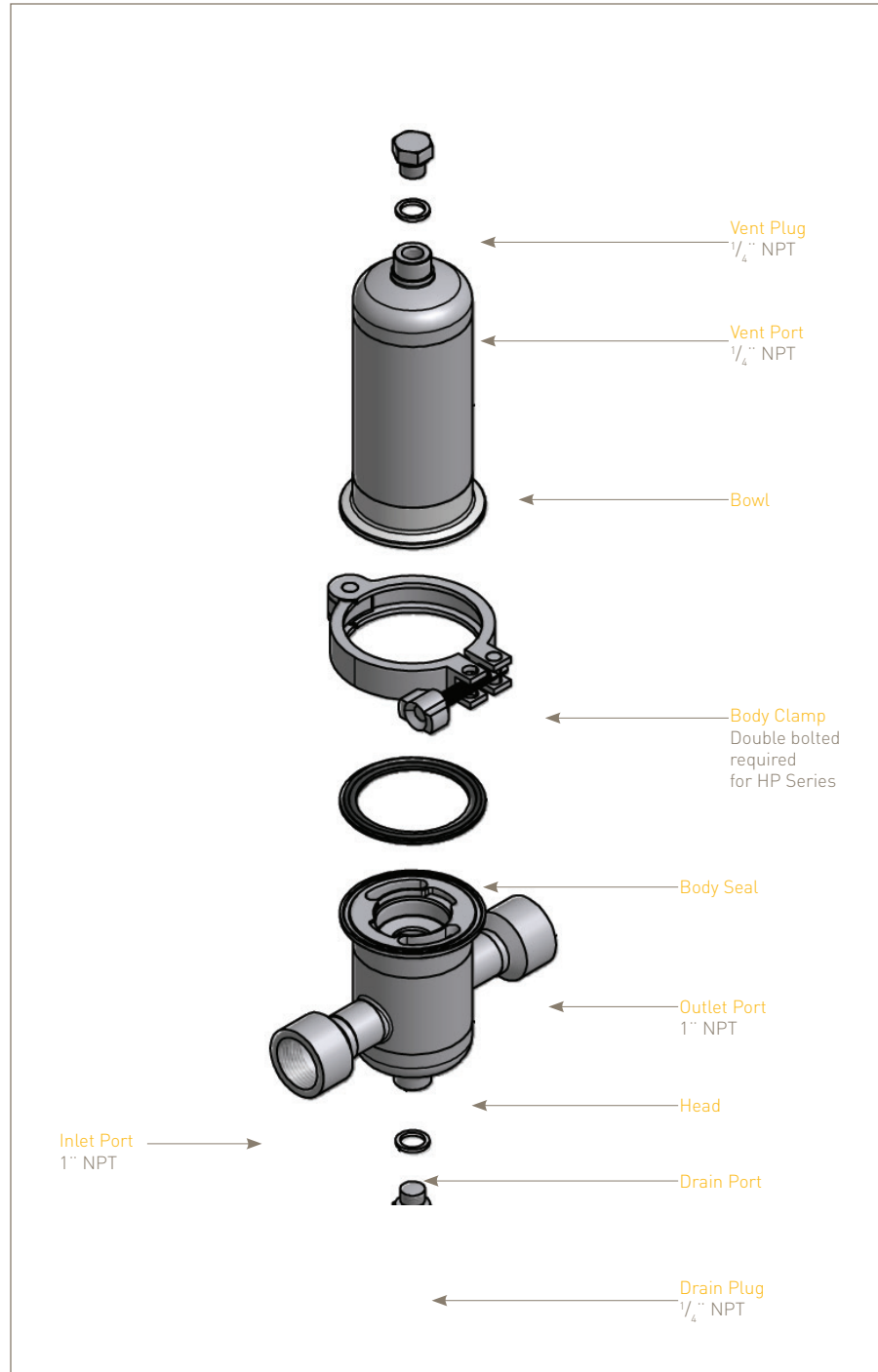
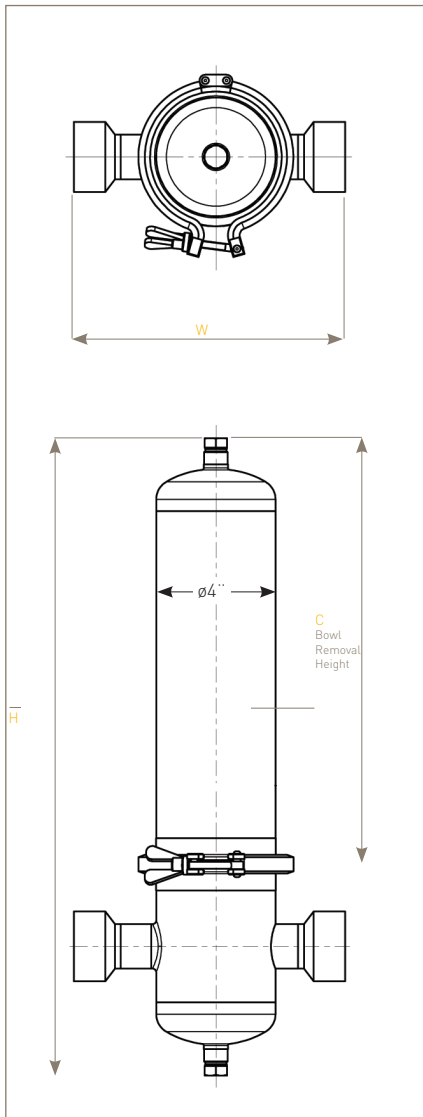
Material Test Certification

EN10204 3.1 supplied upon request.

Design Basis

Generally in accordance with ASME VIII Division 1.

Note: All housings and cartridges are to be ordered separately.



Example: Showing Demi A Size with 1" NPT connections

SCE-HB Series Stainless Steel food & beverage sterile air housing - 316L SS

VALIDATED absolute filtration for particle-free, sterile & pharmaceutical grade compressed air & gases

Model*	Connection Size	Max Recommended Flow @ 100 psi g (cfm)	Dimensions						Design Pressure (psi g)
			H - Height		W - Width		C - Bowl Removal Height		
			in	mm	in	mm	in	mm	
SCE02NSNNB-ZCHB	1/4" NPT	73	8	203.2	4.4	111.8	4.5	114.3	145
SCE05NSNNB-ZCHB	3/8" NPT	73	8.1	205.7	4.4	111.8	4.5	114.3	145
SCE07NSNNB-ZCHB	1/2" NPT	73	8.4	213.4	4.4	111.8	4.5	114.3	145
SCE09NSNNB-ZCHB	3/4" NPT	151	12.1	307.3	4.4	111.8	8.0	203.2	145
SCE11NSNNB-ZCHB	1" NPT	151	12.4	315	4.4	111.8	8.0	203.2	145
SCE12NSNNB-ZCHB	1 1/4" NPT	151	12.6	320	10.2	259.1	8.0	203.2	145
SCE13NSNNB-ZCHB	1 1/2" NPT	151	12.6	320	9.5	241.3	8.0	203.2	145
SCE14NSNNB-ZCHB	2" NPT	507	20.6	523.2	9.5	241.3	13.9	353.06	145
SCE18NSNNB-ZCHB	2" NPT	682	30.5	774.7	9.5	241.3	23.7	602	145
SCE19NSNNB-ZCHB	2" NPT	780	40.1	1018.5	9.5	241.3	33.4	848.4	145

*Selection - The above filter types have NPT connections, alternative pipe connections are available as detailed below, please consult our Customer Service Department for selection.

Replacement Elements

Model*	Element No. Single Pack	Element No. Three Pack
SCE02NSNNB-ZCHB	ZCHB-BT-S1	ZCHB-BT
SCE05NSNNB-ZCHB	ZCHB-BT-S1	ZCHB-BT
SCE07NSNNB-ZCHB	ZCHB-BT-S1	ZCHB-BT
SCE09NSNNB-ZCHB	ZCHB-AT-S1	ZCHB-AT
SCE11NSNNB-ZCHB	ZCHB-AT-S1	ZCHB-AT
SCE12NSNNB-ZCHB	ZCHB-AT-S1	ZCHB-AT
SCE13NSNNB-ZCHB	ZCHB-AT-S1	ZCHB-AT
SCE14NSNNB-ZCHB	ZCHB-1C	N/A
SCE18NSNNB-ZCHB	ZCHB-2C	N/A
SCE19NSNNB-ZCHB	ZCHB-3C	N/A



Notes:

1. Connection - NPT as standard. Other connections available upon request.
2. Housing features aseptic silicone housing seal and element o-rings (other materials available upon request); locking tab element connection; 1/4" vent/drain ports; internals polished; as standard.
3. Element features FDA approved materials; hydrophobic pleated PTFE-impregnated borosilicate fiber media; heat-treated polypropylene construction with locking tabs for positive seal; steam sterilizable in place; 176°F (80°C) max. continuous operating temperature, 287°F (142°C) @ 40 psi g (2.78 bar g) for 15 minutes (sterilization).
4. Options: high pressures - 232 psi g (16 bar g)
5. Validation documentation available upon request.
6. Larger sizes available upon request.

Range - 10" to 30"

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Code - Vessel Class		Code - Connection Size		Code - Connection		Code - Seal		Code - Bowl		Code - Head		Code - Surface Finish		Internal	External
CE	Standard	02	1/4" "09"	N	NPT	E	EPDM	N	1/4" NPT	N	1/4" NPT	B	Sanitary	0.4 µm	0.25 µm
HP*	High Pressure	05	3/8" "09"	W	Weld Prepared	P*	PTFE					I	Standard	As Welded	0.8 µm
OX	Oxygen Service	07	1/2" "09"	F*	ANSI RF150	S	Silicone								
		09	3/4" "13"	H	ANSI RF300	V	Viton								
		11	1" "13"	T	Tri-Clamp										
		12	1 1/4" "13"												
		12	1 1/4" "13"												
		13	1 1/2" "13"												
		14	2" "10"												
		18	2" "20"												
		19	2" "30"												

* Supplied complete with a double bolted clamp

* Not suited for High Pressure option.

* Double bolted clamp required

Code - Clamp Options

01	Double Bolted Clamp
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Use postfix 01 when requiring double bolted clamp option with CE & OX type housings

Code - Tagged

T	Yes
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For Tagged Options customer identification numbers required at time of ordering

Worldwide Filtration Manufacturing Locations

North America

Compressed Air Treatment Filtration & Separation/Balston

Haverhill, MA
978 858 0505
www.parker.com/balston

Finite Airtek Filtration Airtek/domnick hunter/Zander

Lancaster, NY
716 686 6400
www.parker.com/faf

Finite Airtek Filtration/Finite

Oxford, MI
248 628 6400
www.parker.com/finitefilter

Engine Filtration & Water Purification Racor

Modesto, CA
209 521 7860
www.parker.com/racor

Holly Springs, MS
662 252 2656
www.parker.com/racor

Beaufort, SC
843 846 3200
www.parker.com/racor

Racor – Village Marine Tec.

Gardena, CA
310 516 9911
desalination.parker.com

Parker Sea Recovery

Carson, CA
310 637 3400
www.searecovery.com

Hydraulic Filtration Hydraulic Filter

Metamora, OH
419 644 4311
www.parker.com/hydraulicfilter

Laval, QC Canada
450 629 9594
www.parkerfarr.com

Process Filtration domnick hunter Process Filtration

Oxnard, CA
805 604 3400
www.parker.com/processfiltration

Madison, WI
608 824 0500
www.scilog.com

Phoenixville, PA
610 933 1600
www.parker.com/processfiltration

Aerospace Filtration

Velcon Filtration
Colorado Springs, CO
719 531 5855
www.velcon.com

Europe

Compressed Air Treatment domnick hunter Filtration & Separation

Gateshead, England
+44 (0) 191 402 9000
www.parker.com/dhfn

Parker Gas Separations

Etten-Leur, Netherlands
+31 76 508 5300
www.parker.com/dhfn

Hiross Zander

Padova Business Unit
Padova, Italy
+39 049 9712 111
www.parker.com/hzd

Hiross Zander

Essen Business Unit
Essen, Germany
+49 2054 9340
www.parker.com/hzd

Engine Filtration & Water Purification Racor

Dewsbury, England
+44 (0) 1924 487 000
www.parker.com/rfde

Racor Research & Development

Stuttgart, Germany
+49 (0)711 7071 290-10
www.parker.com/rfde

Hydraulic Filtration Hydraulic Filter

Arnhem, Holland
+31 26 3760376
www.parker.com/hfde

Urxala Operation

Urxala, Finland
+358 20 753 2500
www.parker.com/hfde

Condition Monitoring Centre

Norfolk, England
+44 (0) 1842 763 299
www.parker.com/hfde

Parker Kittiwake

West Sussex, England
+44 (0) 1903 731 470
www.kittiwake.com

Parker Procal

Peterborough, England
+44 (0) 1733 232 495
www.kittiwake.com

Process Filtration domnick hunter Process Filtration

Birtley, England
+44 (0) 191 410 5121
www.parker.com/processfiltration

Parker Twin Filter BV

Zaandam, Netherlands
+31(0)75 655 50 00
www.twinfilter.com

Asia Pacific

Australia

Castle Hill, Australia
+61 2 9634 7777
www.parker.com/australia

China

Shanghai, China
+86 21 5031 2525
www.parker.com/china

India

Navi Mumbai, India
+91 22 651 370 8185
www.parker.com/india

Parker Fowler

Bangalore, India
+91 80 2783 6794
www.johnfowlerindia.com

Japan

Tokyo, Japan
+81 45 870 1522
www.parker.com/japan

Parker Techno

Osaka, Japan
+81 66 340 1600
www.techno.taiyo-ltd.co.jp

Korea

Hwaseon-City
+82 31 359 0852
www.parker.com/korea

Singapore

Jurong Town, Singapore
+65 6887 6300
www.parker.com/singapore

Thailand

Bangkok, Thailand
+66 2186 7000
www.parker.com/thailand

Latin America

Parker Comercio Ltda. Filtration Division

Sao Paulo, Brazil
+55 12 4009 3500
www.parker.com/br

Pan American Division

Miami, FL
305 470 8800
www.parker.com/panam

Africa

Aeroporto Kempton Park, South Africa
+27 11 9610700
www.parker.com/africa

