STEAM Filters Filter Cartridges







Steam is an often neglected part of a process, regarded as an add on to a customers liquid or gas filtration needs.

It has however, large specific applications in its own right and should be treated with the same level of importance as air, gas and liquid systems if long filter lifetimes and system cost effectiveness are to be achieved.

The quality of steam used within the food and dairy industries has been raised higher on the agenda in an ever increasing number of companies. Minimum acceptable standards are now being quoted on a more regular basis with particular reference to 'culinary grade' steam. Steam serves several purposes in the food & beverage industry. It is critical that this steam is of a high quality to ensure effective and continuous operation of the process.

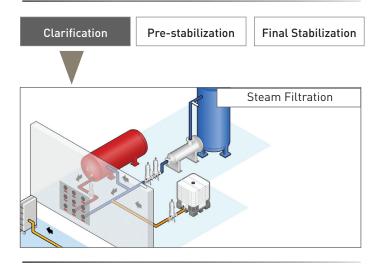
Features

- Robust all welded 316L stainless steel construction
- 'JUMB0' filter configuration ensures maximum utilization of pipework capacity
- Available in culinary grade 1 micron absolute

Benefits

- Long service life under extreme conditions
- Reduced operational cost
- Assures performance to 3A standard

Filtration Stage

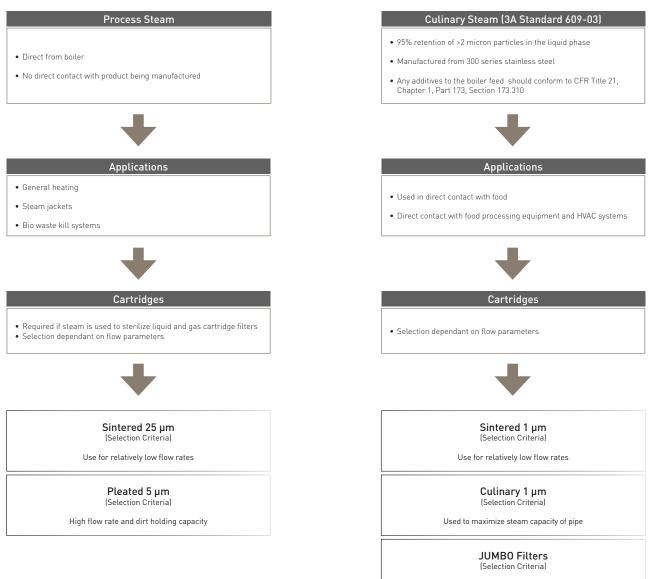


STEAM FILTERS



UTILITIES

Which Filter for Which Application ?



Highest available capacity

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STEAM Filters Filter Cartridges



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Specifications - PLEATED

Materials of Construction 316L Stainless Steel

- Eiltration Media:
- Inner Support Core:
- Outer Support Cage:
- End Caps:
- 316L Stainless Steel 316L Stainless Steel
- Standard o-rings/gaskets: EPDM (standard)

316L Stainless Steel

Silicone and Viton (options available)

Recommended Operating Conditions

The maximum differential pressure in direction of flow (outside to in) is 10 barg (145.03 psig).

The maximum differential pressure in direction of flow (in to outside) is 2 barg (29.00 psig).

The maximum recommended continuous operating temperature range is -75 °C (-103 °F) to +200 °C (392 °F). Note: Temperature dependant on o-ring compound

Effective Filtration Area (EFA)

10" (250 mm) 0.15 m² (1.61 ft²)

Housing Materials of Construction

Material:	316L Stainless Steel
Surface Finish	
Single Internal:	Electropolished Ra 0.8
Single External:	Mechanical Polish
	(Commercial Bright)
Jumbo Internal:	Upstream - Beadblast
	Outlet Assembly -
	Linished 180 grit
Jumbo External:	Beadblast
Vent / Drain	
Single / Jumbo:	1/4" BSPP
	Female Thread
Seal Material:	EPDM Aseptic Seal
Housing Design F Temperature	Pressure and
Single:	16 barg (232 psig)

@ 200 °C (392 °F)

Jumbo:

7 barg (101 psig) @ 170 °C (338 °F)

1 =	2	Figure	Housing Code	Connection Size	Capacity Kg / hr @ 1 barg	Overall Height	Replacement Filter Code
					<100 mbar or 40 m / sec		
		1 1	HBAHP01KY HBAHP011C	1.5" (38.1 mm) 2" (50.8 mm)	150 280	14.8" (376 mm) 20.7" (526 mm)	ZCHS-KC ZCHS-1C
		2 2 2 2	VISCE-01J-D VISCE-01J-E VISCE-03J-G VISCE-03J-H	3" (50.8 mm) 4" (101.6 mm) 6" (152.4 mm) 8" (203.2 mm)	750 1300 2300 3750	30.0" (763 mm) 35.2" (895 mm) 41.2" (1049 mm) 48.7" (1237 mm)	ZCHS-J3 ZCHS-J4 3 x ZCHS-J3 3 x ZCHS-J4

Note: For efficient steam distribution it is recommended that steam velocities are restricted to 25 m / sec⁻¹. For more information on the HBA range, please contact Parker domnick hunter.

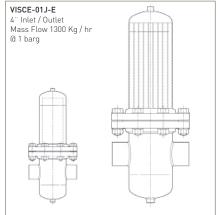
Correction Factors

To use the table above, the steam flow rates must be at 1 barg (14.50 psig). For system flows at different line pressures, divide the system flow by the correction factor below to find the equivalent flow @ 1 barg (14.50 psig).

Table showing the relative system size difference between pleated cartridges left and sintered cartridges right.

Steam Pressure	0	1	2	3	4	5	6	7	8	9	10
Correction Factor	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5





STEAM FILTERS



UTILITIES

Specifications - SINTERED

Materials of Construction

Sintered Stainless Filtration Media: End Caps: Standard o-rings/gaskets: EPDM (standard)

Steel [316]] Stainless Steel (316L) Silicone and Viton (options available)

Recommended Operating Conditions

The maximum differential pressure in direction of flow (outside to in) is 10 barg (145.03 psig).

The maximum differential pressure in direction of flow (in to outside) is 5 barg (72.51 psig).

The maximum recommended continuous operating temperature range is -75 °C (-103 °F) to +200 °C (392 °F). Note: Temperature dependant on o-ring compound

Housing Materials of Construction

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Material:	316L Stainless Steel
Surface Finish	
Internal:	Electropolished Ra 0.8
External:	Mechanical Polish
	(Commercial Bright)
Vent / Drain:	1/4 BSPP
	Female Thread
	(Supplied with Plug)
Seal Material:	EPDM Aseptic Seal

Housing Design Pressure and Temperature

16 barg (232 psig) @ 200 °C (392 °F)

1 =	Figure	Housing Code	Connection Size	Capacity Kg / hr @ 1 barg	Overall Height	Replacement Filter Code
	1 1 1	HBAHP01KY HBAHP011C HBAHP012C	1.5" (38.1 mm) 2" (50.8 mm) 2" (50.8 mm)	<100 mbar or 40 m / sec 1 μm 25 μm 21 45 40 160 82 280	14.8" (376 mm) 20.7" (526 mm) 30.5" (776 mm)	ZCSSKC ZCSS1C ZCSS2C

PLEATED

Note: For efficient steam distribution it is recommended that steam velocities are restricted to 25 m / sec⁻¹. For more information on the HBA range, please contact Parker domnick hunter.

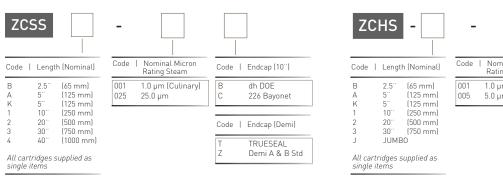
Correction Factors

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Steam Pressure	0	1	2	3	4	5	6	7	8	9	10
Correction Factor	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5

Ordering Information

SINTERED



	-	
minal)	Code Nominal Micron Rating Steam	Code Endcap (10")
nm) mm) mm) mm) mm)	001 1.0 μm (Culinary) 005 5.0 μm	B dh DOE C 226 Bayonet 3 3"JUMBO 4 4"JUMBO
mm)		Code Endcap (Demi)
ed as		T TRUESEAL Z Demi A & B Std

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STEAM Filters

Specifications - SINTERED retrofit cartridges

Materials of Construction

- Filtration Media:
- End Caps:
- Standard o-rings/gaskets: EPDM (standard)
 - 5.5

Sintered Stainless Steel (316L) Stainless Steel (316L) : EPDM (standard) Silicone and Viton (options available)

Recommended Operating Conditions

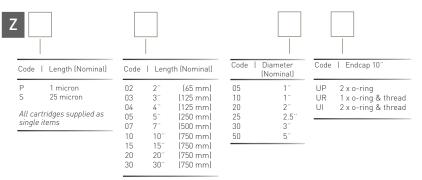
The maximum differential pressure in direction of flow (outside to in) is 10 barg (145.03 psig).

The maximum differential pressure in direction of flow (in to outside) is 5 barg (72.51 psig).

The maximum recommended continuous operating temperature range is -75 °C (-103 °F) to +200 °C (392 °F). Note: Temperature dependant on o-ring compound

Ordering Information

SINTERED retrofit cartridges





Description	L	D	Diagram
ZP/ZS 0310 UR	88	40	<i>≪</i> øD>
ZP/ZS 0315 UR	88	40	← G →
ZP/ZS 0415 UR	124	40	
ZP/ZS 0425 UR	125	54	
ZP/ZS 0525 UR	152	54	
ZP/ZS 0530 UR	148	76	Ŧ
ZP/ZS 1030 UR	269	76	Ĺ
ZP/ZS 1530 UR	405	76	
ZP/ZS 2030 UR	532	76	
ZP/ZS 3030 UR	784	76	
ZP/ZS 3050 UR	774	130	¥

	Description	L	D	Diagram
	ZP/ZS 0210 UP	-		øD—>_
	ZP/ZS 0310 UP	86	35	
	ZP/ZS 0305 UP	-	-	
	ZP/ZS 0410 UP	114	35	
	ZP/ZS 0420 UP	117	40	
	ZP/ZS 0520 UP	141	40	
	ZP/ZS 0525 UP	141	54	L
	ZP/ZS 0725 UP	193	54	
	ZP/ZS 0730 UP	196	76	
	ZP/ZS 1030 UP	269	76	
	ZP/ZS 1530 UP	396	76	♥
_	ZP/ZS 2030 UP	523	76	
	ZP/ZS 3030 UP	775	76	
	ZP/ZS 3050 UP	775	76	
			-	·

Description	L	D	Diagram
ZP/ZS 0205 UI	75	35	,≪—øD—>
ZP/ZS 0210 UI	93	35	≪ G →
ZP/ZS 0305 UI	89	35	
ZP/ZS 0310 UI	93	35	
ZP/ZS 0410 UI	121	35	
ZP/ZS 0420 UI	127	40	÷
ZP/ZS 0520 UI	151	40	Ľ I I
ZP/ZS 0525 UI	151	54	
ZP/ZS 0725 UI	203	54	
ZP/ZS 0730 UI	206	76	
ZP/ZS 1030 UI	279	76	♥
ZP/ZS 1530 UI	406	76	
ZP/ZS 2030 UI	533	76	
ZP/ZS 3030 UI	785	76	
ZP/ZS 3050 UI	785	130	

I www.parker.com/processfiltration

Europe: © +44 (0)1914105121 🖅 dhprocess@parker.com | North America: © toll free: +1 877 784 2234 🖅 dhpsales.na@parker.com | www.parker.com/processfiltration