Steam Filters Utilities

Filter Cartridges





Features

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

Steam filtration is often neglected or regarded as an add on to liquid or gas filtration applications.

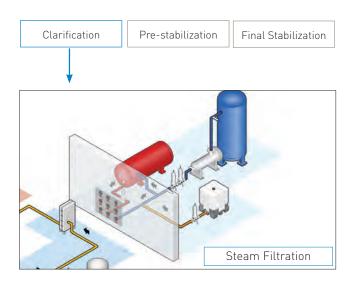
It is however, a specific application and should be treated with the same level of importance as air, gas and liquid systems if longer filter lifetimes and overall system cost-effectiveness are to be achieved.

The quality of steam used within 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 and beverage industry. It is critical that this steam is of a high quality to ensure effective and continuous operation of the process.

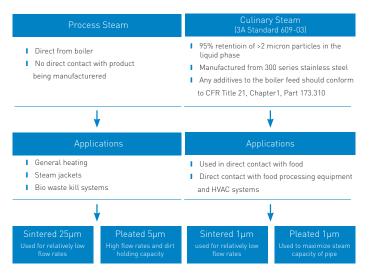
Benefits

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

Filtration Stage



Which filter for which applicaiton?





Specifications - Pleated

Materials of Construct	ion	Effective Fi
 Filtration Media: Inner Support Core: Outer Protection Cage: End Caps: Standard o-rings/gaskets: 	316L Stainless Steel 316L Stainless Steel 316L Stainless Steel 316L Stainless Steel EPDM (Standard)	10" (250 mm) Housing Ma ∎Material: ∎Surface Fini:
	Silicone and Viton (options available)	Single Interr Single Exter Jumbo Inter
Recommended Operat The maximum differentia direction of flow (outside 10 barg (145.03 psig).	l pressure in	Jumbo Exter Vent / Drain Single / Jum

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 10" (250 mm)	
Housing Material Material: Surface Finish	s of Construction 316L Stainless Steel
Single Internal: Single External:	Electropolished Ra 0.8 Mechanical Polish (Commercial Bright)
Jumbo Internal:	Upstream - Beadblast Outlet Assembly - Linished 180 grit
Jumbo External: Vent / Drain	Beadblast
Single / Jumbo:	1/4" BSPP Female Thread

Seal Material: EPDM Aseptic Seal

Housing Design P	ressure and
Temperature	16 barg (232 psig)
Single:	@ 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
		1 1 2 2 2 2 2	HBAHP01KY HBAHP011C VISCE-01J-D VISCE-01J-E VISCE-03J-G VISCE-03J-H	1.5" (38.1 mm) 2" (50.8 mm) 3" (50.8 mm) 4" (101.6 mm) 6" (152.4 mm) 8" (203.2 mm)	<100 mbar or 40 m / sec 150 280 750 1300 2300 3750	14.8" (376 mm) 20.7" (526 mm) 30.0" (763 mm) 35.2" (895 mm) 41.2" (1049 mm) 48.7" (1237 mm)	ZCHS-KC ZCHS-1C ZCHS-J3 ZCHS-J4 3 x ZCHS-J3 3 x ZCHS-J4

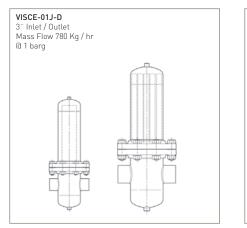
Note: For efficient steam distribution it is recommended that steam velocities are restricted to 25 m / sec-1. For more information on the HBA range, please contact Parker domnick hunter.

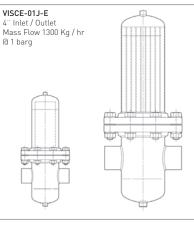
Correction Factors

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 to find the equivalent flow (a 1 barg (14.50 psig).

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

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





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DS_FBG_19_01/14 Rev. 1B

Steam Filters Utilities

Filter Cartridges

Specifications - Sintered

Materials of Construction

Filtration Media:	Sir
	Ste
End Caps:	310
Standard o-rings/gaskets:	ΕP
	Sili

ION Sintered Stainless Steel (316L) 316L Stainless Steel 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*



Housing Materials	s of Construction
Material:	316L Stainless Steel
Surface Finish	
Internal:	Electropolished Ra 0.8
External:	Mechanical Polish
Vent / Drain:	(Commercial Bright) 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	НВАНР01КҮ НВАНР011С НВАНР012С	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

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 to find the equivalent flow @ 1 barg (14.50 psig).

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

ZC	SS	-]			ZC	HS					
Code	Leng	th	Code Ratino	Nominal Micron 9 Steam	Code	End Cap (10")	Code	Leng	th	Code Ratino	Nominal Micron Steam	Code	End Cap (10")
B A K 1	2.5" 5" 5" 10" 20"	(65 mm) (125 mm) (125 mm) (250 mm) (500 mm)	001 025	1.0 μm (Culinary) 25.0 μm	B C Code	dh DOE 226 Bayonet End Cap (Demi)	В А К 1	2.5" 5" 5" 10" 20"	(65 mm) (125 mm) (125 mm) (250 mm) (500 mm)	001 005	1.0 μm (Culinary) 5.0 μm	B C 3 4	dh DOE 226 Bayonet 3'' JUMBO 4'' JUMBO
2 3 4 All car single	30" 40" tridges su	(750 mm) (750 mm) (1000 mm)			T Z	TRUSEAL Demi A & B Std		30 JUM	(750 mm)			Code T	TRUSEAL

SINTERED Stainless Steel Retrofit Cartridge Part Numbers - 1.0 μm & 25 μm

Parker domnick hunter Cartridge	DS-R 3/1	DS-R 3/1.4	DS-R 4/1.5	DS-R 4/2.5	DS-R 5/2.5	DS-R 5/3	DS-R 10/3	DS-R 15/3	DS-R 20/3	DS-R 30/3	DS-R 30/5				
Retrofit Cartridge	GS3/1 SS3/1	GS3/1.5 SS3/1.5	GS4/1.5 SS4/1.5	GS4/2.5 SS4/2.5	GS5/2.5 SS5/2.5	GS5/3 SS5/3	GS10/3 SS10/3	GS15/3 SS15/3	GS20/3 SS20/3	GS30/3 SS30/3	GS30/5 SS30/5				
Parker domnick hunter	DS-R 02/05	DS-R 02/10	DS-R 03/05	DS-R 03/10	DS-R 04/10	DS-R 04/20	DS-R 05/20	DS-R 05/25	DS-R 07/25	DS-R 07/30	DS-R 10/30	DS-R 15/30	DS-R 20/30	DS-R 30/30	DS-R 30/50
Cartridge Retrofit Cartridge	GS02/05 SS02/05	GS02/10 SS02/10	GS03/05 SS03/05	GS03/10 SS03/10	GS04/10 SS04/10	GS04/20 SS04/20	GS05/20 SS05/20	GS05/25 SS05/25	GS07/25 SS07/25	GS07/30 SS07/30	GS10/30 SS10/30	GS15/30 SS15/30	GS20/30 SS20/30	GS30/30 SS30/30	GS30/50 SS30/50
Parker domnick hunter	DDC D 02/05	PDS-R 02/10		PDS-R 03/10	PDS-R 04/10	DDC D 0//20	DDC D 05/20		DDC D 07/25		DDC D 10/20	DDC D 15/00	00/20	DDC D 20/20	PDS-R 30/50
Cartridge	P-GS02/05	P-GS02/10	P-GS03/05	P-GS03/10	P-GS04/10	P-GS04/20	P_GS05/20	P-GS05/25	P-GS07/25	P-GS07/30	P-GS10/30	P-GS15/30	P-GS20/30	P-GS30/30	P-GS30/50
Retrofit Cartridge	P-SS02/05	P-SS02/10	P-SS03/05	P-SS03/10	P-SS04/10	P-SS04/20	P-SS05/20	P-SS05/25	P-SS07/25	P-SS07/30	P-SS10/30	P-SS15/30	P-SS20/30	P-SS30/30	P-SS30/50

Specifications - Sintered retrofit cartridges

Materials of Construction

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

Sintered Stainless Steel (316L) 316L Stainless Steel Silicone and Viton® (options available)

Recommended Operating Conditions

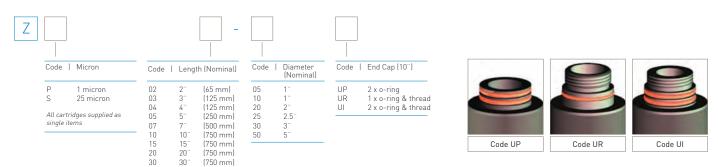
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Ordering Information

SINTERED retrofit cartridges



Description	L	D	Diagram	Description	L	D	Diagram	Description	L	D	Diagram
ZP/ZS 0310 UR	88	40	<i>≪</i> øD>	ZP/ZS 0210 UP	-		øD	ZP/ZS 0205 UI	75	35	,≪—øD—>
ZP/ZS 0315 UR	88	40	G →	ZP/ZS 0310 UP	86	35		ZP/ZS 0210 UI	93	35	 ✓ G →
ZP/ZS 0415 UR	124	40		ZP/ZS 0305 UP	-	-		ZP/ZS 0305 UI	89	35	
ZP/ZS 0425 UR	125	54		ZP/ZS 0410 UP	114	35		ZP/ZS 0310 UI	93	35	
ZP/ZS 0525 UR	152	54		ZP/ZS 0420 UP	117	40		ZP/ZS 0410 UI	121	35	
ZP/ZS 0530 UR	148	76	÷	ZP/ZS 0520 UP	141	40		ZP/ZS 0420 UI	127	40	-
ZP/ZS 1030 UR	269	76	Ĺ	ZP/ZS 0525 UP	141	54	L	ZP/ZS 0520 UI	151	40	
ZP/ZS 1530 UR	405	76		ZP/ZS 0725 UP	193	54		ZP/ZS 0525 UI	151	54	
ZP/ZS 2030 UR	532	76		ZP/ZS 0730 UP	196	76		ZP/ZS 0725 UI	203	54	
ZP/ZS 3030 UR	784	76		ZP/ZS 1030 UP	269	76		ZP/ZS 0730 UI	206	76	
ZP/ZS 3050 UR	774	130	▼	ZP/ZS 1530 UP	396	76	¥ []	ZP/ZS 1030 UI	279	76	¥
				ZP/ZS 2030 UP	523	76		ZP/ZS 1530 UI	406	76	
				ZP/ZS 3030 UP	775	76		ZP/ZS 2030 UI	533	76	
				ZP/ZS 3050 UP	775	76		ZP/ZS 3030 UI	785	76	

ZP/ZS 3050 UI

785 130

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