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.

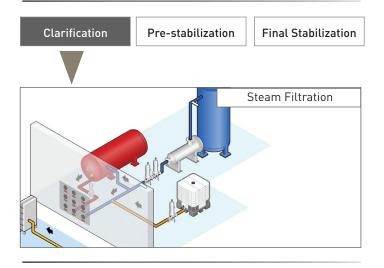
Features

- 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

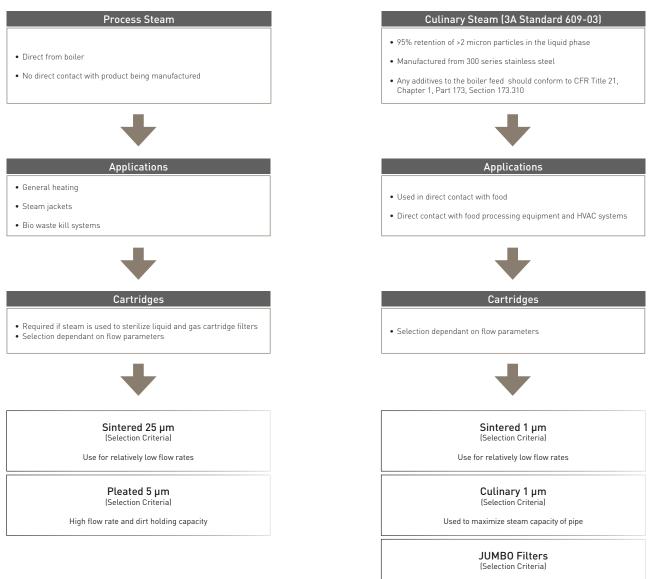


STEAM FILTERS



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.

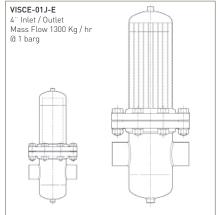
Correction Factors

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

| riousing riaceriaes of | |
|------------------------|------------------------|
| 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.

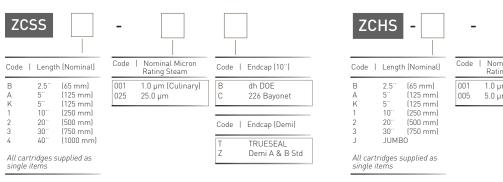
Correction Factors

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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

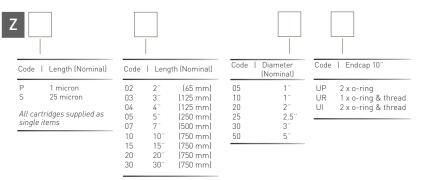
The maximum differential pressure in direction of flow (outside to in) is 10 barg (145.03 psig).

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 | |
| | | | |

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