



# SANI-MATIC®

Cleaning Confidence

Bio-Pharm

Technical Datasheet

## Hygienic ALB Strainer

Industry Leading Process Equipment Protection

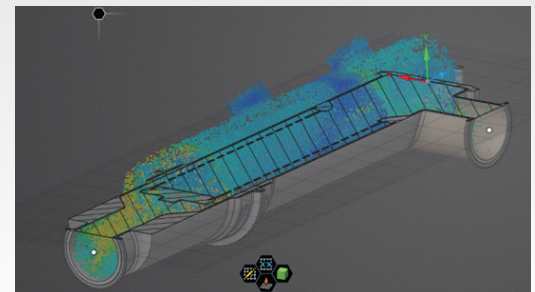
Component and equipment protection is critical to keeping biopharmaceutical processes running - the Hygienic ALB Strainer protects these components during CIP and other process steps, allowing production to continue as-designed, safely, and uninterrupted.



Hygienic ALB Strainer

### Benefits

- Tangential inlet to promote adequate cleaning velocities within body for elimination of dead leg concerns.
- Unique patent pending strainer element cap design – reduces internal body scratching during servicing of strainer.
- Standard 360° sight glass for particulate inspection without breaking process connection.
- Ergonomic designs for strainer handle and element cap removal.
- Particulates captured within basket element – catches all particulates on the interior for complete and easy removal.
- Basket element end cap – allows for easy flushing of basket element.
- Angle-line design allows for element removal without breaking process line components.
- Tuf-Flex® Tri-Clamp gaskets reduce “sticking” of seal when servicing strainer.
- Materials of construction, surface finishes, certifications, and documentation package meeting industry standards.
- Designed for low pressure drop.
- Multiple inlet orientations and sizes to meet your process needs.
- Eccentric fittings for full drainability in multiple installation orientations.
- Optional pressure gauges or ports for monitoring particulate loading.
- Optional interchangeable mesh underlays for finer straining.



Optimized Fluid Dynamics Design with CFD Modeling

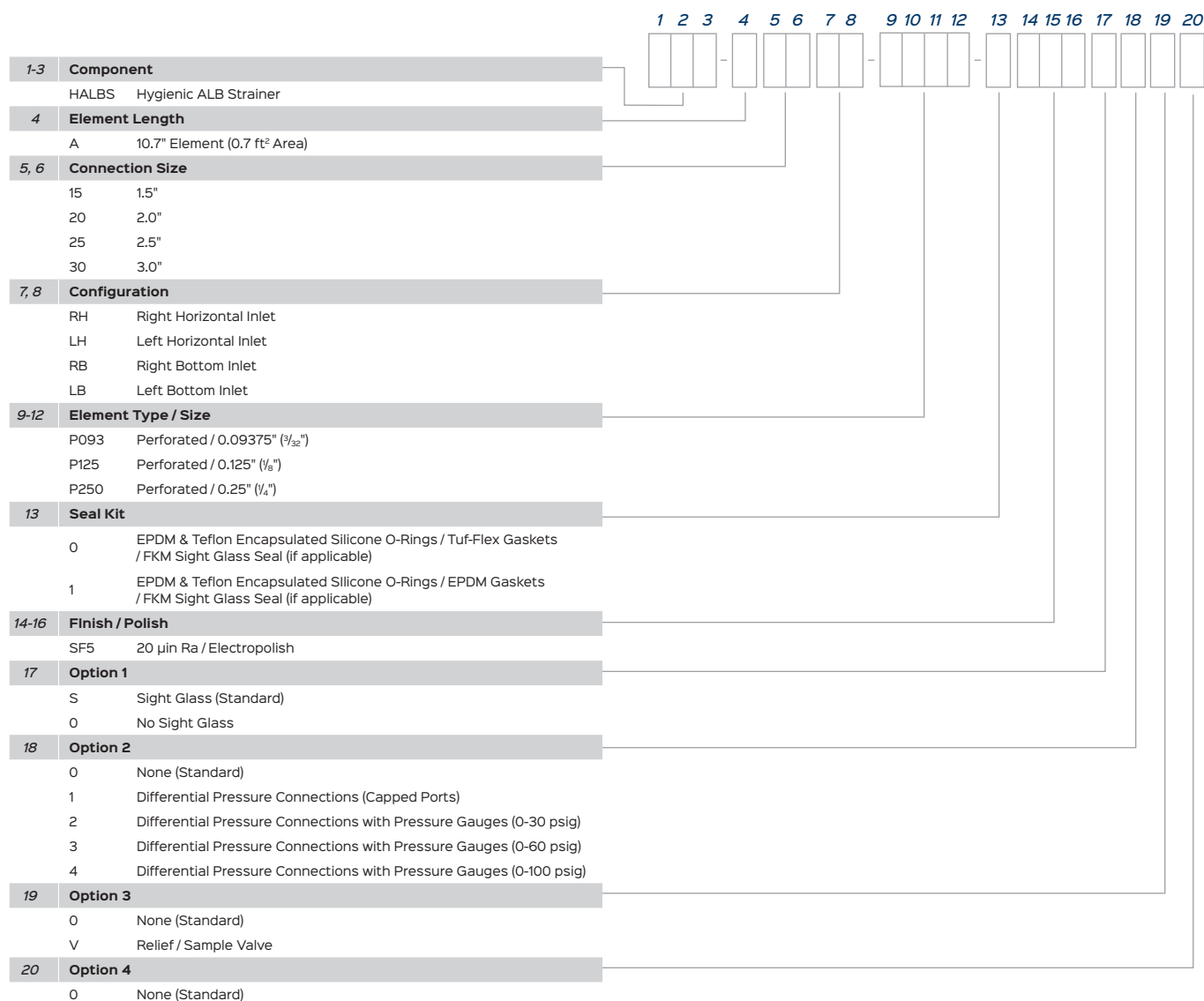
### Applications

- CIP Supply and Return Lines
- Utility Supply Lines
- Specific Equipment Protection
- Buffer, Media Solution, Process Lines



### Model Number Key

Example Model #: HALBS-A20RH-P250-OSF5S300





## Key Technical Data

- **Temperature & Pressure Rating:** 200 psi @ 70 °F / 125 psi @ 200 °F
- **Weight:** 21-25 lbs (dependent on options chosen)
- **Max Pressure Drop Rating (Across Strainer Element):** 40 psi
- **Wetted Materials**
  - Strainer Body and Element: 316Lss
  - Element Retainer O-ring: Teflon™ Encapsulated Silicone
  - Element End Cap O-ring: EPDM
  - Tri-Clamp Gaskets: Tuf-Flex® PTFE/EPDM
  - Sight Glass Seals: FKM
  - Mesh Underlays (Optional): 316Lss
  - Relief / Sample Valve (Optional): Teflon Seat / Viton Elastomers
- **Differential Pressure Connections (Optional):** 2.0" TC
- **Relief / Sample Valve (Optional):** Welded to strainer element cap with 10mm hose barb connection outlet

## Documentation Package

- MTRs
- Surface Finish Certification
- UPS Class VI Certifications
- Electropolish Certification
- Passivation Certification
- Weld & Heat Map
- Weld Log
- As-Built Drawings
- Hydrostatic Test (Optional)

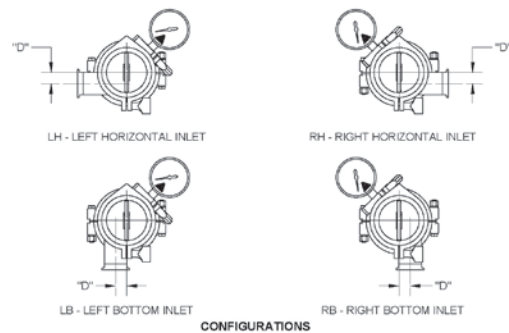
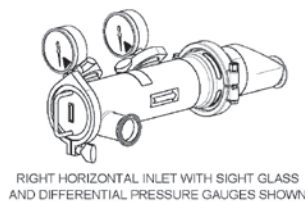
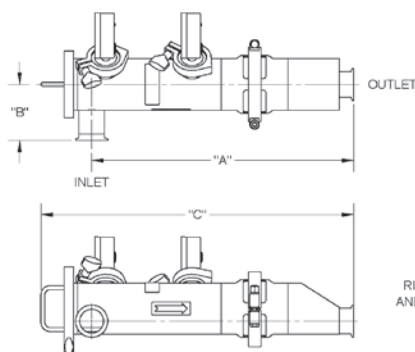


Strainer Element Assembly

## Dimensional Information

Inlet/Outlet Size	Body Dia.	A	B	C	D	Available Configurations
1.5" TC x 1.5" TC	4"	20 3/4"	4 1/8"	24 7/16"	1 1/4"	LH, RH
2.0" TC x 2.0" TC	4"	20 1/2"	4 3/8"	24 7/16"	1"	LH, RH, LB, RB
2.5" TC x 2.5" TC	4"	20 1/4"	4 3/8"	24 7/16"	3/4"	LH, RH, LB, RB
3.0" TC x 3.0" TC	4"	20"	4 3/8"	24 7/16"	1/2"	LH, RH, LB, RB

NOTE: Lead times for LH and RB configurations are longer than RH and LB configurations.

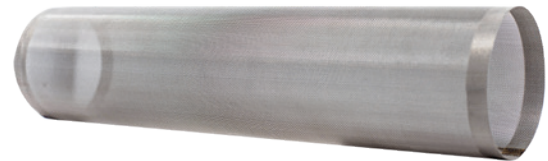


NOTE: The strainer is drainable in the horizontal position, which requires draining both out the inlet and outlet. For vertical or angled installation, the strainer is drainable out of the outlet when installed between 45° and 90° from horizontal.



## Mesh Underlays

Mesh Size	Micron (Approx. Equiv.)	Opening Width in Inches (Approx. Equiv.)
20	850	0.0340"
40	425	0.0150"
60	250	0.0092"
100	150	0.0060"



60 Mesh Underlay

## Cv Information

Connection Size	Cv
1.5"	39
2.0"	64
2.5"	74
3.0"	89

- Cv values are for the strainer when free of particulate loading.
- Cv values applicable for all perforation sizes, with or without mesh overlays (these variables have minimal impact to Cv values).
- Cv values are for water, using the equation below:

$$Cv = q \left( \frac{SG}{\Delta P} \right)^{0.5}$$

q = flow rate (gpm)  
 SG = specific gravity (~1.0 for water)  
 ΔP = pressure drop (psi)

### Hygienic ALB Strainer Pressure Drop

