

Industries and application areas

VERDERAIR HC-PURE hygienic double diaphragm pumps are designed for hygienic applications in various industries. They can handle a wide range of low and high viscous fluids which makes them ideal for numerous applications.



FD SB

Beverage

Fruit juice, flavours, colouring.



SB

Pharmaceutical

Ingredients, alcohol, chemicals.



SB

Cosmetics

Shampoo, cremes, lotions, soap, toothpaste, perfume.



FD SB

Dairy industry

Milk, cream, yoghurt, cheese, butter, ice cream.



FD SB

Food

Soups, starches, sauces, pastes, jams, pie filling, dough, oil, bakery ingredients.



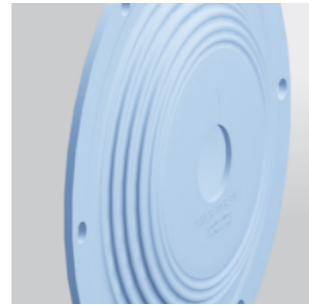
FD SB

Brewery/winery

Beer, wine, wort, yeast, flavouring.

HC-PURE range overview

The Verderair HC-PURE hygienic double diaphragm pump is available in two designs: the FD series for hygienic applications at the beginning of the production process and the SB series for hygienic applications in the final stage of the production process.



- ✓ **Superior finish:**
 - Avoids bacterial traps
 - Increases cleanability
- ✓ **Rotatable stand:**
 - Easy drainable
 - Quick cleaning
- ✓ **Overmolded diaphragms:**
 - Easy servicing
 - Longer lifetime
- ✓ **Maintenance free air valve:**
 - 100% self-lubricating
 - No contamination



	Material center section	FD	SB
Concept		Hygienic series	High hygienic series
Max. flow [l/min]		600	650
Max. discharge pressure [bar]		7	7
Max. operating temperature (°C)	PE PA	70 90	70 90
Max. solids particles [mm]		12	12
Internal surface roughness [µm]		< 3.2 µm	< 0.8 µm
Certifications			

22-VA-1B-HC-PURE_V3

HYGIENIC DOUBLE DIAPHRAGM PUMPS

VERDERAIR HC-PURE

Hygienic durability due to ultimate cleanability



- ✓ **Best cleanability**
- ✓ **Easy to maintain**
- ✓ **Highest hygienic design principles**



Verderair HC-PURE: Hygienic durability due to ultimate cleanability

The Verderair HC-PURE series of hygienic double diaphragm pumps is designed for various hygienic applications. Their cleanability capabilities reduces the risk of bacteria traps and contamination. The pumps are manufactured according to the highest hygienic design standards for hygienic applications. Easy maintenance and long lifetime results in less downtime for your production process.

<p>Best cleanability</p> <p>Verderair HC-PURE pumps are electropolished. This results in a lower average roughness which makes products more difficult to adhere and avoids bacterial traps and increases the cleanability. In addition, the surface is given greater resistance to corrosion.</p> <p>The pumps can be cleaned via strip cleaning or CIP/SIP cleaning. You can easily drain the pump by turning it in the rotatable stand.</p> 	<p>Easy to maintain</p> <p>The housing screws and manifold clamps are easily removed for complete disassembly and cleaning. The PTFE/EPDM overmolded diaphragms have a long lifetime together with the maintenance free air valve which is 100% self-lubricated results in less maintenance and downtime.</p> 	<p>Highest hygienic design principles</p> <p>Design and production is according to the highest hygienic design principles. HC-PURE pumps are compliant with EC01935/2004 and FDA.</p> <p>The single piece manifold and smooth corners and bends results in no crevices for bacteria.</p> <p>The pumps can be equipped with hygienic DIN 11851 or Tri-clamp connections.</p> 
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Options

- Leak dection
- Stroke sensor
- Barrier system

Key features

- 1 Electropolished SS 316L
- 2 Solid machined center block PE/Polyamide
- 3 Rotatable stand for quick draining & service
- 4 Single piece manifolds wih smooth bends and corners results in no crevices for bacteria
- 5 PTFE/EPDM overmolded diaphragms
- 6 Manifold clamps for easy disassamby
- 7 Maintenance free air valve

VERDERAIR[®] HC-PURE

FDA EC 1935/2004 Ex

Exploded view of a HC-PURE SB model