

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 highly viscous fluids which makes them ideal for numerous applications.



Beverage





Pharmaceutical

Ingredients, alcohol, chemicals.

Soup, starch, sauce, paste,

jam, pie filling, dough, oil,

bakery ingredients.

Food

FD SB



Cosmetics

Shampoo, creme, lotion, soap, toothpaste, perfume.



Dairy

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



Brewery/winery

Beer, wine, wort, yeast, flavouring.

HC-PURE highlights





Electropolished:
 Avoids bacterial traps
 Increases cleanability

Rotatable stand:
 Easy drainable
 Quick cleaning

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 at the final stage of the production process.

	Material centre section	
Concept		
Max. flow [gpm]		
Max. discharge pressure [psi]		
Max. viscosity [cP]		
Max. operating temperature [°F]	PE PA	
Max. solid particles [inch]		
Internal surface roughness [µm]		
Certifications		



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- Overmolded diaphragms:
 Easy servicing
 Longer lifetime
- Maintenance free air valve:
 100% self-lubricating
 No contamination





FD	SB
Hygienic series	Highly hygienic series
158.5	171.71
101.52	101.52
20	20
158 194	158 194
0,47	0,47
< 3,2 µm	< 0,8 µm

AUSTRIA / BELGIUM / BULGARIA / CHINA / CZECH REPUBLIC / FRANCE GERMANY / HUNGARY / INDIA / ITALY / THE NETHERLANDS / POLAND REPUBLIC OF KOREA / ROMANIA / SLOVAKIA / SOUTH AFRICA SWITZERLAND / UNITED KINGDOM / UNITED STATES OF AMERICA HYGIENIC DOUBLE DIAPHRAGM PUMPS

VERDERAIR HC-PURE

Hygienic durability due to perfect cleanability



Your benefits

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



Verderair HC-PURE: Hygienic durability due to perfect cleanability

The Verderair HC-PURE series of hygienic double diaphragm pumps is designed for various hygienic applications. The electropolished surfaces reduce the risk of bacteria traps and contamination. The pumps are manufactured from SS 316L according to the highest hygienic design standards. Easy maintenance and a long lifetime results in less downtime for your production process.

Best cleanability

Verderair HC-PURE pumps are engineered for optimal cleanability, thanks to their **electropolished** surface. This process reduces the average roughness of the pump, making it more difficult for products to adhere and minimizing the risk of bacterial build-up. Additionally, the electropolishing enhances its resistance to corrosion and improves the overall cleanliness of the pump. These pumps are designed to be easily cleaned using either strip cleaning or CIP/SIP cleaning methods. The rotatable stand allows for convenient draining of the pump, making the cleaning process even more streamlined and efficient.



Easy to maintain

Highest hygienic design principles

The housing screws and manifold clamps can be effortlessly removed for comprehensive disassembly and cleaning, making maintenance simple. The combination of PTFE/ EPDM overmolded diaphragms and a self-lubricated, maintenancefree air valve ensures a long product lifespan with minimal maintenance requirements and downtime.

Furthermore, the use of an **oil-free air valve** eliminates the risk of contamination in the event of a diaphragm rupture.

HC-PURE pumps are designed and manufactured with the utmost attention to hygiene. These pumps comply with the stringent requirements of EC-1935/2004 and FDA, ensuring that they meet the highest standards for hygiene and safety.To prevent the build-up of bacteria, HC-PURE pumps feature a single piece manifold with smooth corners and bends that eliminate crevices where germs can grow. In addition, these pumps can be equipped with either hygienic DIN 11851 or Tri-Clamp connections, further enhancing their hygiene and ease of cleaning.



Options

- ▲ Leak detection
- Stroke sensor
- → Barrier system

VERDER**AIR**® **HC-PURE**

Key features

- 1 Electropolished SS 316L

- 4 Single piece manifolds



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2 Solid machined centre block made from PE/Polyamide

8 Rotatable stand for quick draining & servicing

5 PTFE/EPDM overmolded diaphragms

6 Manifold clamps for easy disassembly

Maintenance free air valve











Exploded view of a HC-PURE SB model