



## 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 including shear sensitive applications.



**Beverage**

Fruit juice, flavours, colouring.



**Pharmaceutical**

Ingredients, alcohol, chemicals.



**Cosmetics**

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



**Dairy**

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



**Food**

Soup, starch, sauce, paste, jam, pie filling, dough, oil, bakery ingredients.



**Brewery/winery**

Beer, wine, wort, yeast, flavouring.

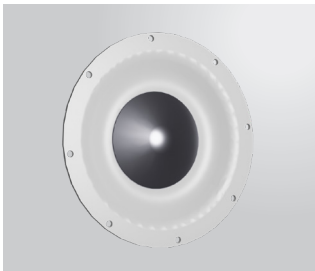
## HC-PURE highlights



- Electropolished:**
- 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

### 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	FD	SB
Concept		Hygienic series	Highly hygienic series
Max. flow [l/min]		465	378
Max. discharge pressure [bar]		7	7
Max. viscosity [mPas]		20.000	15.000
Max. operating temperature [°C]	Polyethylene (PE) Polyamide (PA)	80 120	80 120
Max. solid particles [mm]		16	14
Internal surface roughness [µm]		< 3,2 µm	< 0,8 µm
Certifications			

VERDER LIQUIDS

The leading  
pump  
manufacturer

VERDER LIQUIDS BV  
Utrechtseweg 4a  
Vleuten, 3451 GG  
The Netherlands

MAIL [info@verderliquids.com](mailto:info@verderliquids.com)  
WEB [www.verderliquids.com](http://www.verderliquids.com)



1300 1 GLOBAL  
[sales@globalpumps.com.au](mailto:sales@globalpumps.com.au)  
[globalpumps.com.au](http://globalpumps.com.au)

Austria, Belgium, Bulgaria, China, Croatia, Czech Republic, France, Germany, Hungary, India, Italy, The Netherlands, Poland, Republic Of Korea, Romania, Serbia, Slovakia, South Africa, Spain, Switzerland, United Kingdom and United States of America.



Verderair\_HC-PURE\_6pager\_EN\_2025



HYGIENIC DOUBLE DIAPHRAGM PUMPS

# VERDERAIR HC-PURE

Hygienic durability due  
to perfect cleanability



- ✓ 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

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, maintenance-free 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.



### Highest hygienic design principles

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
- Remote operation



### Key features

- 1 Electropolished SS 316L
- 2 Solid machined centre block made from PE/Polyamide
- 3 Rotatable stand for quick draining & servicing
- 4 Single piece manifolds
- 5 PTFE/EPDM overmolded diaphragms
- 6 Manifold clamps for easy disassembly
- 7 Maintenance free air valve





































































































































































































