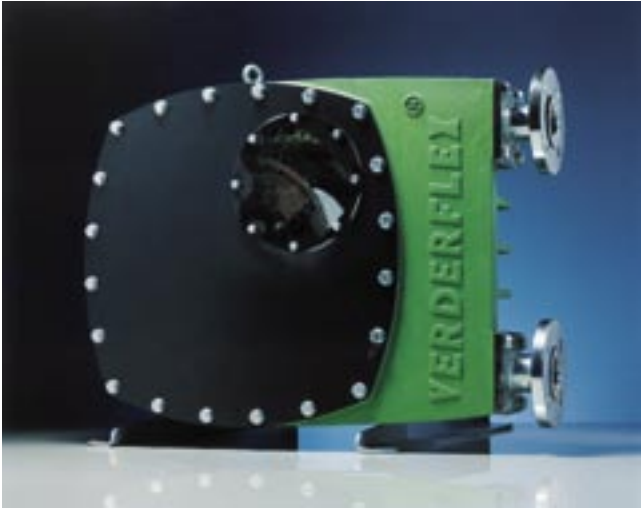
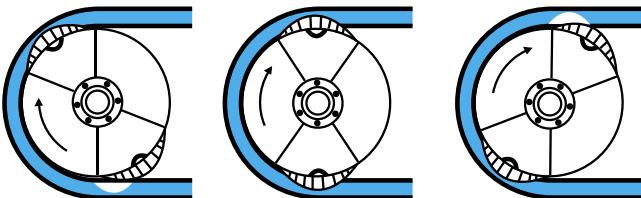


VERDERFLEX industrial peristaltic hose pumps



The Verderflex series of peristaltic hose pumps consists of a balanced range of quality pumps for industrial applications. Verderflex is the first company to market a peristaltic hose pump that meets the EHEDG specifications.

Working principle



The principle of the peristaltic hose pump is based on moving the product through the hose, by alternately squeezing and releasing the hose. A smooth, flexible hose lies in the pump housing and is completely flattened against the wall of the housing by the action of two shoes mounted on a rotor. The rotating rotor causes the product to be moved through the hose at a constant volume and without any loss through leakage. This makes the pump suitable for dosage applications.

After the hose is released, an almost complete vacuum arises, which ensures that the product is drawn into the hose. It is possible to achieve a pressure of 16 bar. This means no problems arise when pumping viscous liquids.

Advantages and characteristics

- Long life span of the hose due to the specially designed hose construction
- Available in both short-coupled and long-coupled versions
- Excellent self-priming
- Can be allowed to run dry

- Sturdy pump housing
- Hose is easy to fit and remove
- Can pump clean, dirty, abrasive, or viscous liquids

Models

The Verderflex peristaltic hose pump series consists of various hose pumps with a maximum capacity of 80 m³/hour and a maximum pressure of 5 bar.

Hose material



Verderflex NR

The most commonly used hose for all market segments is the NR hose. The core and cover are made from a smooth NR rubber and highly resistant to abrasion. Suitable for use with mildly corrosive materials, highly abrasive slurries, inorganic media etc.

Verderflex NBR

This hose is very suitable for oily and fatty products, as well as for organic media. The core is manufactured from nitril rubber (NBR); the cover is made from a mixture of SBR and NR in black and spiral wound.

Verderflex EPDM

This hose is suitable for highly corrosive chemicals and inorganic products. The core is made of smooth EPDM rubber. It is worth mentioning here that the cover of the hose is also made of EPDM, in contrast to other hoses that are on the market, where the cover is made of NR. By using EPDM for the cover of the hose it is much more resistant to chemicals and even suitable for diffusing media.

■ Verderflex NBRF (FDA)

This hose has a core of black NBR liner, approved for foodstuffs, and has a standard NR cover. The black liner meets the quality requirement of FDA CFR 21 par 170-189, item 177.2600. This hose has full EHEDG approval. A detailed protocol can be obtained on request.

■ Verderflex CSM

Verderflex CSM (Hypalon) hose is a new chemicals-resistant hose type in the Verderflex hose range.

When the EPDM hose is inappropriate for extremely aggressive chemicals such as acids, oxidising reagents and some solvents, then the CSM hose is an excellent choice. The hose is manufactured with a CSM inner coating and an NR cover.

Options



- Duplex units for increasing the capacity per pump and reducing the pulsations
- Aluminium housing for VF 10 and VF 15
- Stainless steel rotor shoes, frames and nuts/bolts
- Vacuum system to improve the vacuum conditions
- Pulsation dampers
- Hose failure detection
- DIN, ANSI or JIS flanges or hygienic connections
- Coating according to client's specification for pump and/or rotor
- EHEDG

■ Verderlube lubricant

The pump housing is half filled with specially developed Verderlube lubricant. Verderlube provides lubrication and cooling of the hose, extending its life span. The only part in contact with the product being pumped is the hose. The Verderflex hose pump is therefore extremely suitable for use with abrasive and corrosive products.

EHEDG

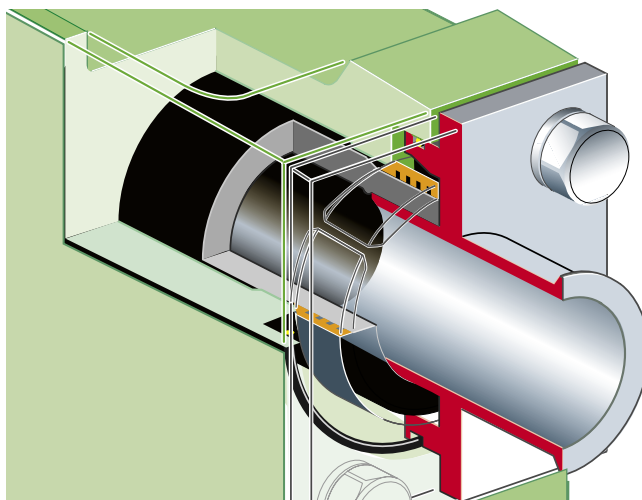
The EHEDG group (European Hygienic Equipment Design Group) is responsible for guidelines and standards for CIP (Clean-In-Place) pumps.

The Verderflex industrial peristaltic hose pump is the only hose pump in the world to have been given an EHEDG certification for the entire pump construction.

This means that not only can the pump be cleaned without needing to be dismantled but that the entire pump design and construction comply with the EHEDG classification.



The peristaltic hose pump has various technical characteristics that, from the outset, make the pump very suitable for use in a foodstuffs environment.



- Simple CIP cleaning
- No moving parts that come into contact with the product
- The hose is a component of the suction- and of the discharge side (only one part).

Application areas

- Chemicals
- Paint industry
- Waste water treatment
- Food industry
- Slaughterhouses
- Breweries
- Paper industry

VERDER Group, VERDERFLEX products

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