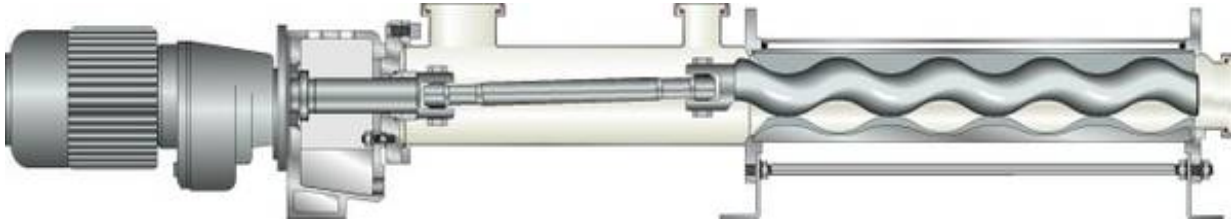


NEMO® BH Hygienic Pump

...the way to a hygienic solution!

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Universally applicable – the NEMO® BH Hygienic Pump



The NEMO® BH Hygienic Pump is employed in the foodstuff, pharmaceutical, cosmetic and chemical/biochemical industries for hygienic applications and optimal cleaning. It is ideal in these settings due in part to its continuous, pressure-stable, gentle and low-pulsation conveyance and in part to its capability of dosing in proportion to speed. The block pump construction with flanged drive is particularly compact and economical to operate.

Many different regulatory bodies have set specifications for a hygienically correct configuration of components and machines, as well as for component cleanability. NEMO PUMPS® are designed, produced and inspected in accordance with the regulations of the EHEDG (European Hygienic Equipment Design Group) and the QHD (Qualified Hygienic Design). The materials used are approved by the FDA (Food and Drug Administration) and the BfR (German Federal Institute for Risk Assessment). In addition, NEMO® Hygienic and Aseptic Pumps meet the specifications of the United States' 3-A Sanitary Standards and are GOST-R certified (a Russian certificate of conformity).

Features of the NEMO® BH Hygienic Pumps:

- continuous low-pulsation conveyance unaffected by fluctuations in pressure and viscosity
- conveyance volume in proportion to rotation speed with high dosing precision over a broad rotational-speed range
- high suction and pressure capability without valves
- reversible conveyance direction
- stator with funnel-shaped entrance for optimal filling of the conveying chamber

NEMO® BH Hygienic Pumps offer you:

- gentle product conveyance
- long production cycles with contamination-proof, sterile pump construction
- CIP and SIP capability
- product admission under vacuum conditions up to almost an absolute vacuum
- open, patented hygienic joints for smearing media
- elastomers approved for foodstuffs in accordance with FDA and BfR
- horizontal and vertical installation
- easy serviceability

Advantages of the NEMO® BH Hygienic Pump:

- foodstuff-suitable shaft seals with compression-proof bolted seal casing enable reversal of the direction of rotation and thereby also of the direction of conveyance, up to the maximum pump pressure
- streamlined, crevice-free housing model prevents sedimentation of the product
- all product-contacting surfaces are polished to prevent build-up of the medium and facilitate cleaning
- the pump housing and stator can be optionally heated

Take advantage of our decades of experience and know-how in the manufacturing of positive-displacement pumps.

Your edge – process stability even under great demands!

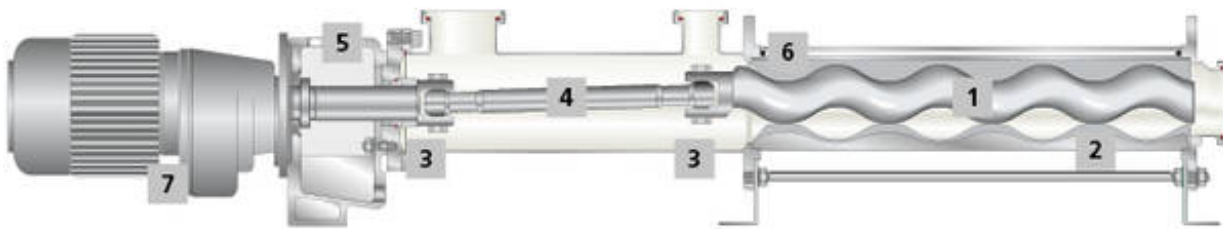
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NEMO® BH Hygienic Pump - Design

Our Design – Your Advantage: Easy Serviceability, Dependability, Operating Safety



1 Rotor

In two geometries and with polished surfaces

2 Stator with Reduced Walls

For changing temperatures, a patented stator with reduced elastomer wall thickness is used. In addition, a thermal stator protector (STP-2 or STP-D) provides protection against overheating and dry running. Stator inlet with funnel-shaped opening for improved feed into the conveying chamber.

3 Hygienic Joints

Patented open crevice-free hygienic joints for optimal cleaning.

4 Drive Chain

Drive and connecting shaft with coupling rod and two hygienic joints for the transmission of power from the drive to the rotor

5 Seal Casing

Shaft seals suitable for contact with foodstuffs, with compression-proof, bolted shaft seal housing, enable a reversal of the direction of rotation up to the maximum pumping pressure.

6 Protective Tubing for Stator

made of stainless steel (optional)

7 Block Construction

The drive is flanged directly to the pump skirt, lending the system compact dimensions, a low total weight, constant axial height independent of the construction and size of the drive, low maintenance requirements, easy serviceability, and high efficiency.

The NEMO® BH Hygienic Pump is available...

- in various sizes for flow rates up to 140 m³/h
- for differential pressures up to 24 bar
- with optional tangential CIP supports on the pump housing and end supports

- with stators and gaskets with various elastomers approved for contact with foodstuffs.
- with stators with reduced walls
- with [S & L Geometry](#) for optimal adjustment to the application

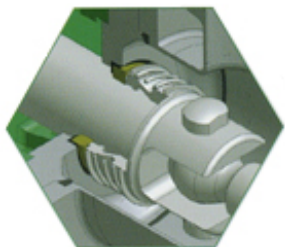
... conveys...

- sensitive substances under gentle, hygienic conditions

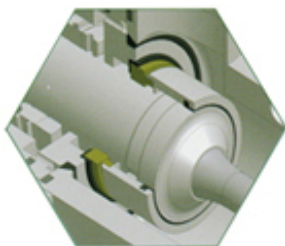
... and offers

- a variety of shaft seals and construction types

Shaft Seals



Bi-directional, loaded single mechanical seal with elastomer bellows, with or without knife edges. Seal rings of SIC. Elastomer material also FDA-approved upon request.



Bi-directional, unloaded single mechanical seal with capsuled corrugated spring. Smooth outer contour. Seal rings of SIC. FDA-approved elastomer material.

Optional Components



Conveying Screw and Funnel Housing

For slowly flowing and pasty substances, the pump is optionally equipped with a conveying screw and funnel housing for optimal filling of the conveying chamber.



Heating Rail and Heating Jacket

Optional heatable or coolable design of the pump housing and of the stator



CIP/SIP Process

To achieve the velocity of flow necessary for the cleaning fluid of at least 1.5 m/s in the entire system in accordance with CIP procedures, NEMO[®] Hygienic and Aseptic Pumps are equipped with additional flushing supports in tangential configuration and must be equipped with a bypass line. The bypass is also necessary for the SIP process. The NEMO[®] Pump operates in a synchronized fashion both for the CIP and for the SIP process. With tangential

flushing supports, complete evacuation of the NEMO[®] pump is guaranteed. All pump materials are suitable for CIP and

SIP processes.

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Universally applicable – the NEMO® BH Hygienic Pump

... the way to hygienic solutions!

The NEMO® BH Hygienic Pump is employed for hygienic applications in the foodstuff, pharmaceutical, cosmetic and chemical/biochemical industries in order to provide continuous, pressure-stable, gentle and low-pulsation conveyance with optimal cleaning and dosing in proportion to speed.

Wide Spectrum of Applications

The NEMO® BH Hygienic Pump is used primarily for substances with the following properties:

- shear-sensitive
- low to very high viscosity
- smearing or non-smearing
- substances with or without solid content
- thixotropic and dilatant
- abrasive
- adhesive

... such as

yeast, cream, mustard, mayonnaise, yogurt, soft cheeses, ointments, chunky sauces, eggs, milk, curd cheeses, honey, marmalade, syrup, ketchup, sourdough and many others.

Additional Features

- high suction capability of up to 9 mWC
- vertical or horizontal installation
- low noise, low vibration

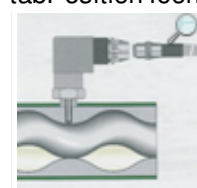
Large Range of Capacities and Pressures

- adjustable capacities up to 140 m³/h
- for differential pressures up to 24 bar

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NEMO® BH Hygienic Pump - Spare Parts & Accessories

The following accessories are available for the NEMO® BH Hygienic Pump:

dry running protection units for NEMOLAST® stators
flow sensing unit for solid stators
speed monitoring device
diaphragm pressure gauges with various connections
multi-function pressure instrument

- quench pot
- pressurized flushing for double mechanical seal systems
- ring dosing nozzle
- chemical anchors
- stator removal tool
- adjustable feet
- mobile and trailer mounted units
- covers for drives
- electrical control systems

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NEMO® Progressing Cavity Pumps

- [Progressing Cavity Pumps](#)

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