

ABOUT GRUNDFOS

If you are looking for a competent partner for your hygienic pump requirements, Grundfos fits the label. We have produced high-quality industrial pumps for more than half a century. Every solution is backed by solid knowhow and a desire to constantly push the boundaries in innovative pump technology.

The NOVAlobe range is a result of our commitment to excellence, offering reliable, efficient performance in a variety of sanitary processes such as:

- Food & Beverage
- Pharmaceutical
- Biotechnology
- Personal care

As a truly global company Grundfos is present in 45 countries around the world. Wherever you are based, extensive pump and pump application know-how is available to you in your language.

Explore the complete Grundfos portfolio at www.grundfos.com.

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PROTECT YOUR PROCESSES



REVOLUTIONARY DESIGN FOR VISCOUS MEDIA

GRUNDFOS ADDS ROTARY LOBE PUMPS TO THE SANITARY RANGE



The NOVALobe range is specifically designed for viscous media – and for applications where gentle pumping or dosing is required. As part of a complete range of sanitary pumps from Grundfos, the NOVALobe pumps meet the strictest hygienic requirements in the market today – and come well prepared for the future. The NOVALobe is EHEDG certified.

ROBUSTNESS

The robust construction of the NOVALobe pumps minimises the shaft overhang and any play in the pump. All pumps handle differential pressure up to 16 bar, which reduces the risk of galling to an absolute minimum.

UNIQUE ROTOR MOUNTING DESIGN

The unique rotor mounting arrangement incorporates precision-ground cylinders as drive and rotor location device. This makes the connection between the rotor and the shaft very accurate and eliminates play.

A VARIETY OF APPLICATIONS

The NOVALobe pumps offer extremely reliable operation and gentle product handling. The hygienic design and use of pore-free materials make the pumps suitable for a variety of applications, such as:

Food & Beverage

- Dairy
- Food processing plants
- Soft drink applications
- Confectionary and sugar
- Meat industry
- Brewery

Pharmaceutical, biotechnology and personal care

- Fermentation processes
- Vaccine
- Blood products
- Enzyme production
- Cosmetics
- Personal care

Other industrial applications

- Paper
- Textile
- Chemical

FLEXIBLE ROTOR PROFILES

The same rotor housing can be equipped with various rotor profiles. This makes it possible to adapt the NOVALobe pump to specific applications for an optimum performance in different conditions.

Available rotor profiles:

- Bi-wing: Robust and popular choice for most applications
- Multilobe: For low shear, low pulsation and gentle product handling
- Uni-wing: For gentle solid handling and dough-like products

Choices include:

- Customised shaft seal solution
- Pressure relief valve
- Thermal jacket
- Aseptic front cover

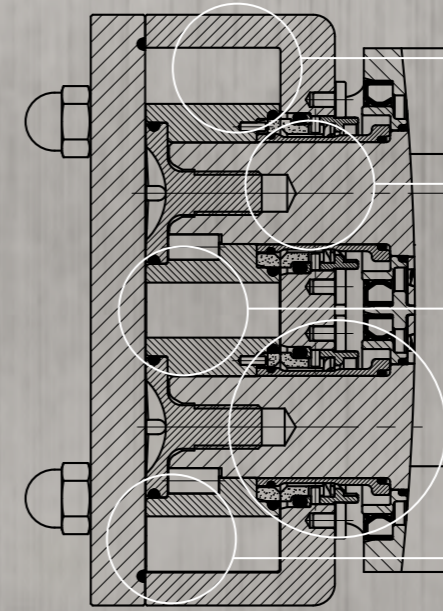


TECHNICAL DATA NOVALobe

Displacement:	0.06 to 1.29 l/rev
Differential pressure:	up to 16 bar
Liquid temperature:	up to 95°C, 150°C (SIP)
Max. viscosity:	up to 1,000,000 cP
Sanitary rotary lobe pump	AISI 316L PN 16

PUMP MODEL	DISPLACEMENT (l/rev)	CONNECTIONS (mm)	MAX. SPEED (rev)	PARTICLE SIZE (mm) (non-abrasive particles)
NOVALobe 10/0.06	0.06	25	1500	12
NOVALobe 20/0.12	0.12	40	1500	16
NOVALobe 30/0.33	0.33	50	1250	23
NOVALobe 40/0.65	0.65	65	1000	29
NOVALobe 50/1.29	1.29	80	800	35

FEATURES AND BENEFITS



FLEXIBILITY
Interchangeable rotor and shaft seal designs.
Various connection types

ROBUST AND RELIABLE
Large shaft diameter and compact design
for high differential pressure

SMOOTH SURFACES
Standard surface finish of Ra ≤ 0.8 µm
for easy cleanability

SERVICE-FRIENDLY
Front loaded seals and a unique rotor fixation

HYGIENIC DESIGN
EHEDG-certified cleanability with full
drainability in vertical installation

SHAFT SEALS

To accommodate different applications and media, Grundfos NOVALobe pumps are available with different seal types:

- Single mechanical seal
- Single-flush mechanical seal
- Double mechanical seal
- O-ring seal

The mechanical seals are single inboard seals placed in the optimum position in the pump to ensure sufficient lubrication and cooling. They also comply with the hygienic design criteria in CIP and SIP processes.

Seal face materials are carefully selected to suit the specific media. Standard materials are carbon/silicon carbide with EPDM elastomers (FDA-compliant).

CONNECTIONS:

- Threads to DIN 11851 (standard)
- Flanges to DIN EN 1092-1 (DIN 2642 PN 16)
- Sterile threads to DIN 11864-1
- Sterile flanges to DIN 11864-2
- Other connections available on request. These include SMS, RJT, clamp connections to DIN, ISO, Tri-Clover, etc., and special sterile threaded fittings and flanges
- Rectangular inlet

CONSULT GRUNDFOS WEBCAPS

Please consult Grundfos WebCAPS for more detailed information on subjects including:

- Optional seal materials
- Connection options
- Additional options.



NOVALOBE EXECUTIONS

Bare shaft pumps: With horizontal or vertical ports.

Complete unit: With geared motor and coupling, mounted on stainless steel base frame.

SUPER: Complete unit with stainless steel motor shroud.

Trolley: Complete unit on stainless steel trolley.