

# ABS CLEAN LIQUID PUMP NL

50 Hz

## Applications

NL pumps are designed to endure the constant demand of general-purpose applications involving clear or turbid liquids and water treatment positions. These pumps are also suitable for explosive atmospheres. The NL can even handle liquids with temperatures of up to 170°C. The NL range offer reliable performance for many crucial applications within industry, water and wastewater and building services.

## Design

This versatile pump is available in a range of 50 sizes with 5 different bearing assemblies. Horizontal, single-stage centrifugal pumps with connections and main dimensions according to DIN 24255 / EN 733 plus 19 additional sizes.

The range includes horizontal centrifugal pumps with discharge diameters from DN32 to DN300.

The variety of materials and shaft seal options permits pumping of many liquids under different operating conditions.

## High reliability

The NL pumps are of robust design and offer prolonged MTBF (Mean Time Between Failure) thanks to oversized ball bearings and a reduced shaft deflection which complies with ISO 5199. The bearing assembly is rigid in its design. The bearings are available with grease or oil lubrication.

## Modular design

The modular system ensures high interchangeability of major parts, which results in reduced spares inventory, easier dismantling and assembly. All this minimises down-time.

The design of the pump also allows the rotor unit to be withdrawn without disturbing the pipe work. Using a spacer type coupling, permits back-pull out of the rotor assembly from the pump casing without moving the motor.

## High efficiencies

NL pumps benefit from the latest technology and have very high efficiencies - with peak efficiencies over 89%. The unique hydraulic design improves flow rates and also helps to reduce the power consumption. The impellers are of closed design and offer unique hydraulics with higher flow rates and better efficiencies.

## Many options

The NL-pumps are available in a variety of shaft seals with different options. These seal arrangements are gland packing or single DIN type mechanical seal with or without quench and external flushing. This permits pumping of a wide range of liquids.



## Properties

<b>Capacity</b>	Max. 1800 m <sup>3</sup> /h
<b>Head</b>	Max. 140 m
<b>Speed</b>	Max. 3600 rpm
<b>Temperature</b>	Max. 170°C depending on the shaft seal-sealing and material execution.
<b>Pressure rating</b>	Material design 1B, 4B PN16. 0B, 0C, 0E PN16 / 10 <sup>11</sup> / 14 <sup>21</sup> .
<b>Shaft sealing</b>	Mechanical seal or stuffing box
<b>Flange connections</b>	Material design 1B, 4B, DIN 2501 PN16. 0B, 0C, 0E DIN 2501, PN16/10 <sup>31</sup> (ANSI 150 on request)
<b>Technical specifications</b>	Dimensions acc. to DIN 24255/EN733 plus additional 19 sizes.
<b>Testing</b>	ISO 9906 Grade 2

1) From 80-400 to 300-500 except 150-500, 2) 150-500, 3) 150-200, 150-250, 200-250.



## Your benefits

- **Durable design extends pump life.** Extended pump life thanks to oversized ball bearings, reduced shaft deflection and ISO 5199. This offers prolonged MTBF.
- **Latest technology reduces power consumption.** High efficiency technology (peak efficiency over 89%) and unique hydraulic design improves higher flow rates.
- **Modular design minimises downtime and MTTR.** Reduced spare parts inventory and easy dismantling and assembly minimises MTTR (Mean Time To Repair).
- **Many options enhances performance.** The variety of materials and shaft seal options ensure optimal operating conditions for every application.

## Type designations

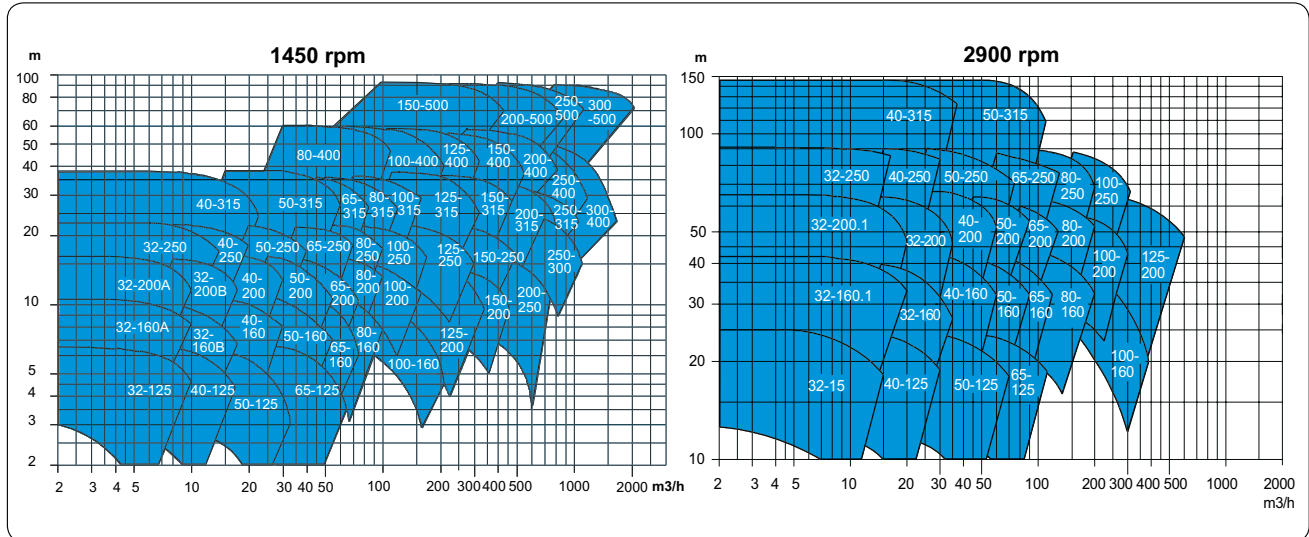
<b>NL 125-250 A C 041 OB 2</b>	
<b>NL</b>	Pump series
<b>125</b>	Discharge dia. (mm)
<b>250</b>	Impeller dia. (mm)
<b>A</b>	Hydraulic: A/B/D
<b>C</b>	Bearings: B, C, S, T or 2
<b>041</b>	Shaft sealing: 041, 052, BJ3, BJS...
<b>OB</b>	Material: 0B, 0C, 0E, 1B, 4B
<b>2</b>	Casing gasket: 2, 4

## Installations



The NL pumps are also available in a compact close-coupled design, which saves space and make them easy to install.

## Performance curves



## Materials

Code	0B	0C	0E	1B	4B
Volute casing	Cast iron	Cast iron	Cast iron	Nodular iron	Stainless 316
Casing cover	Cast iron	Cast iron	Cast iron	Nodular iron	Stainless 316
Shaft/shaft sleeve	Stainless	Stainless	Stainless	Stainless	Stainless 316
Impeller	Cast iron	Bronze	Stainless 316	Cast iron	Stainless 316