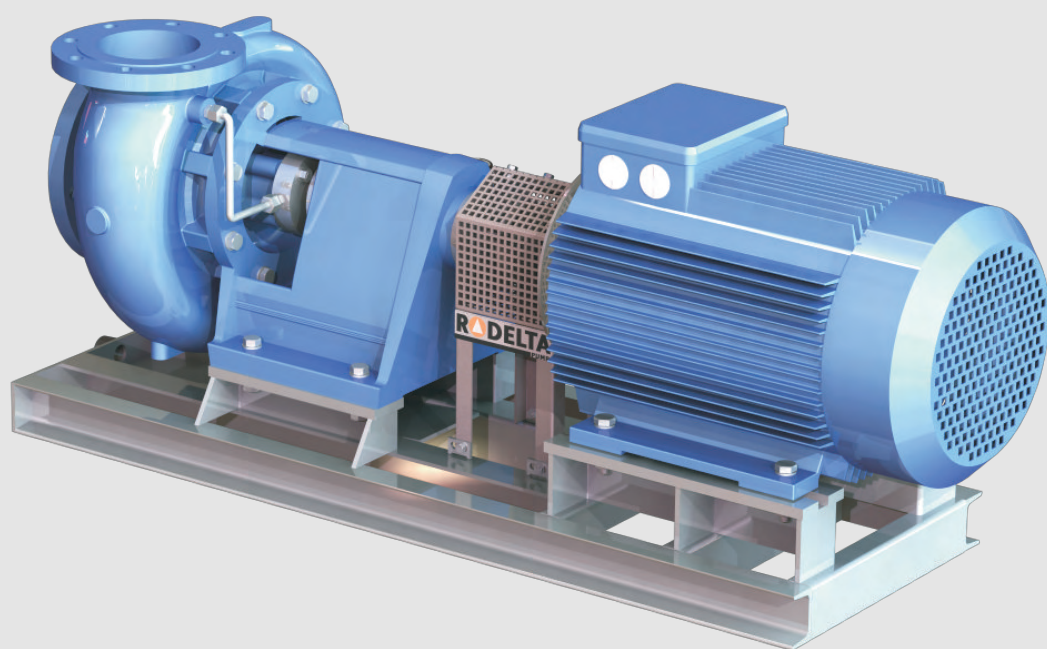




► The power of proven technology

NK  
NKE



Horizontal single-stage end-suction pump



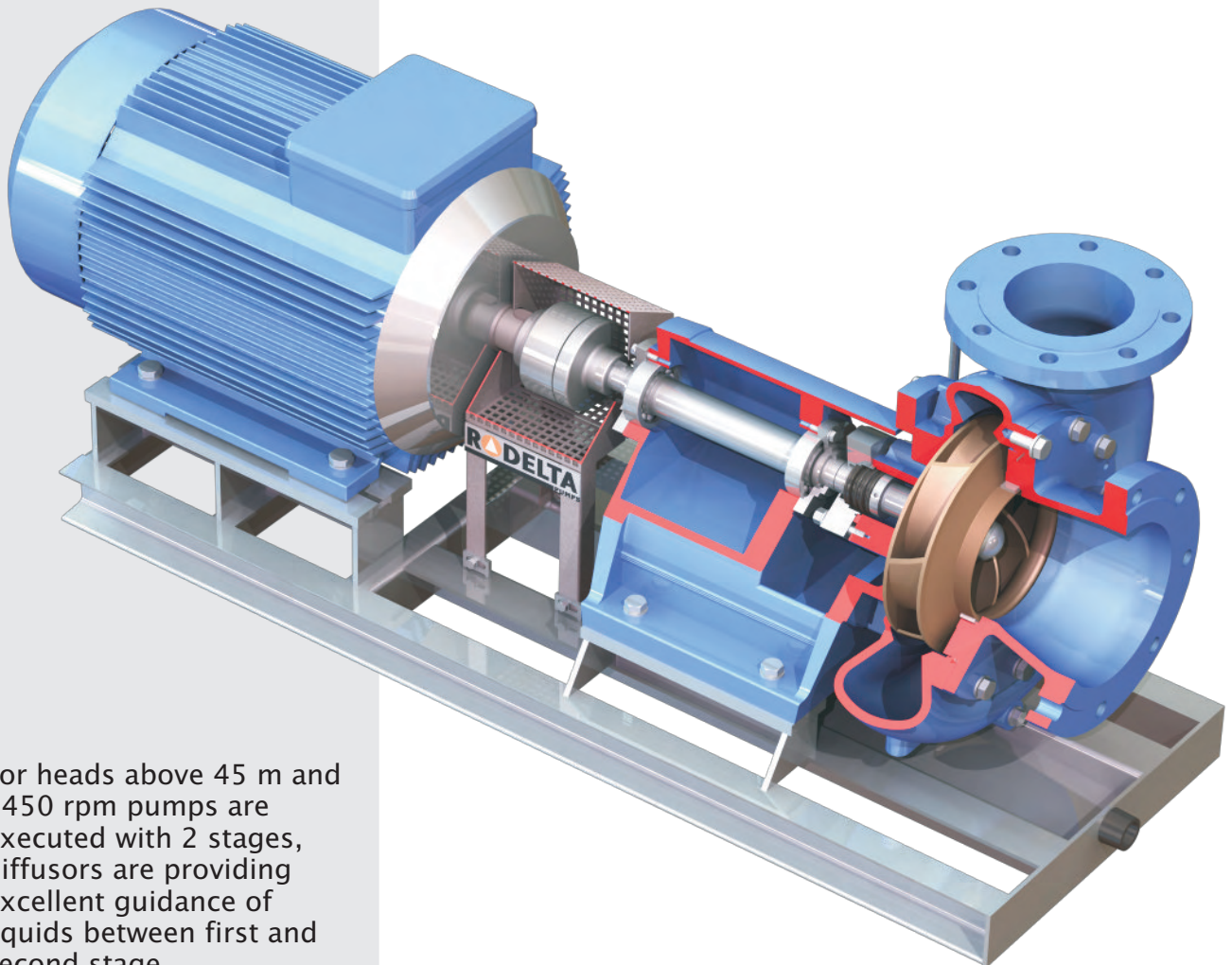
## General design description

The NK range of pumps is a range of horizontal non-self-priming pumps, suitable for handling low viscosity, clean or slightly contaminated liquids. The pump is basically designed in accordance to EN 733 however this range provide a larger range of hydraulic fields.

NK range of pumps is able to handle most pump duties, one of its advantages is the large variety of material executions.

This pump has a wide range of shaft sealing options, varying from gland packing, standard mechanical to balanced double seal.

Several bearing types are available, either grease or oil lubricated.



For heads above 45 m and 1450 rpm pumps are executed with 2 stages, diffusers are providing excellent guidance of liquids between first and second stage. This range is one of the most versatile pump types.

## Applications



- Cooling water pumps for condenser systems
- Irrigation pumps for agricultural purposes
- Drainage pumps for water engineering and the building industry
- Flushing water pumps for filter-plants

In short, wherever clean and slightly contaminated liquids have to be transported.



## Features and benefits

### Pump Performance

- Optimised volute design
- High efficiency
- Smooth services

### Material options

- Standard execution in cast iron, ductile cast iron and bronze
- Impellers available in cast iron, bronze, stainless steel and duplex material
- Other materials available upon request

### Suction capabilities

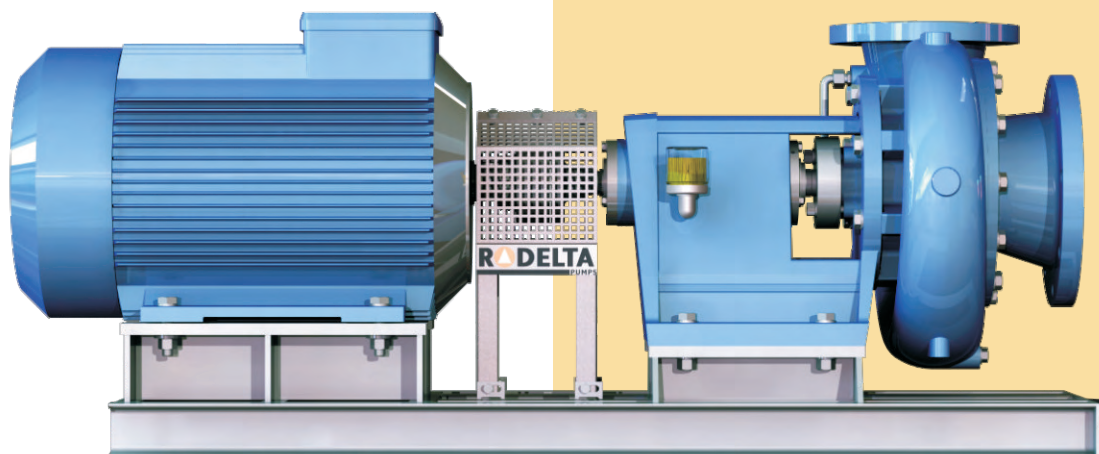
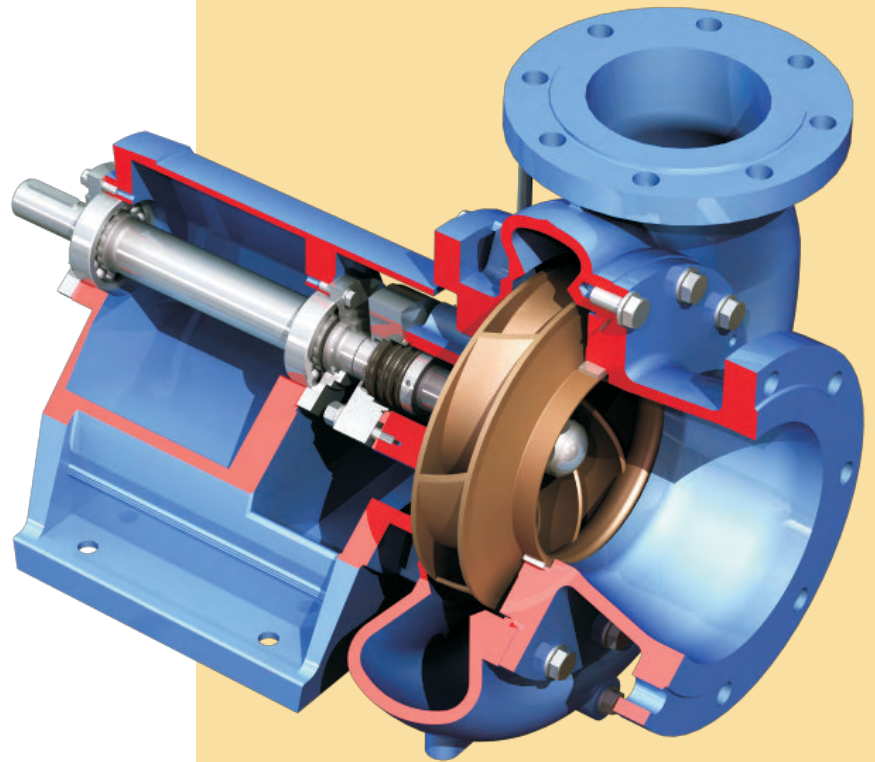
- Smooth suction entry in pump casing
- Smooth surface
- Excellent NPSH
- Minimal flow distortion

### Pump casing

- Flanges in according to ISO 7005 PN 10/16
- Maximum working pressure 1000 kPa (10 bar)
- Wide range of applications
- Large drain opening
- Complete and fast draining of the casing

### Impeller locking

- Stainless steel impeller cap nut with flat gasket
- Reliable and economic locking



### Foot

- Machined foot
- Exact positioning on baseplate and in pipework

### Shaft

- Steel alloy or stainless steel shaft
- Rigid, reliable shaft
- Most seal options with shaft sleeve
- No contact between shaft and pumped liquid when shaft sleeve applied

### Oil lubrication

- Breather / filling plug on top
- Oil bath
- Oil sight glass
- Constant level oiler
- Large drain plug

### Bearings

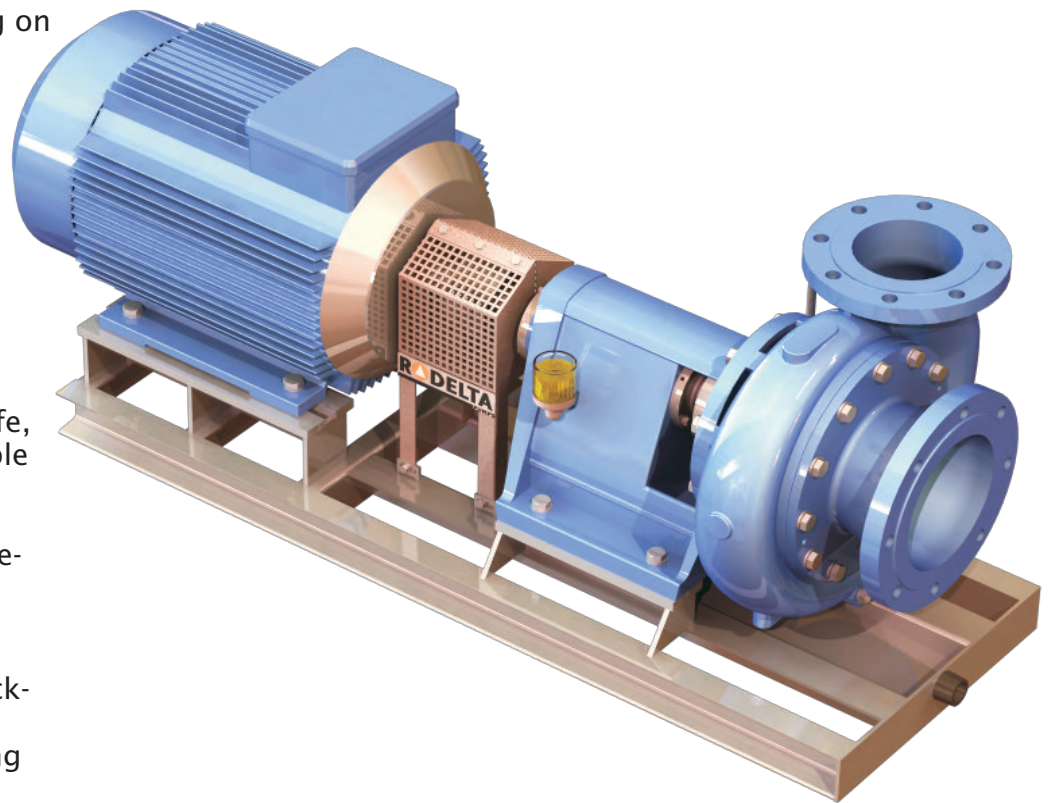
- 2 deep groove ball bearings sealed for life, or oil lubricated double row angular contact bearing and roller bearing greased for re-lubrication or oil lubricated
- Extended MTBF
- Economic bearing lock-up
- Rigid cast iron bearing bracket construction
- Exact alignment

### Easy and low cost maintenance

- Back pull out principle
- Reduced maintenance and easy impeller replacement
- Mechanical seal according to EN 12756 cartridge seals
- Changeable wearing
- Reduced maintenance cost '2RS1'

### Pump cover

- Flat gasket, fully chambered
- No gasket blow out
- Machined fits
- Integrated stuffing box Mechanical seal chamber
- Perfect alignment of all components

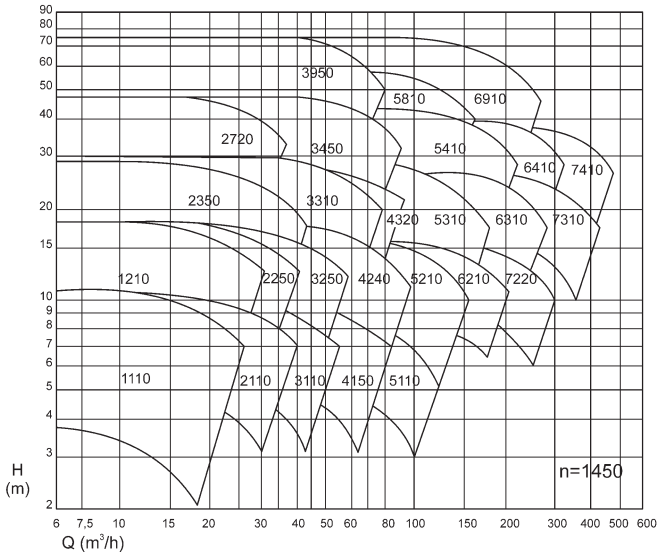


### Technical data

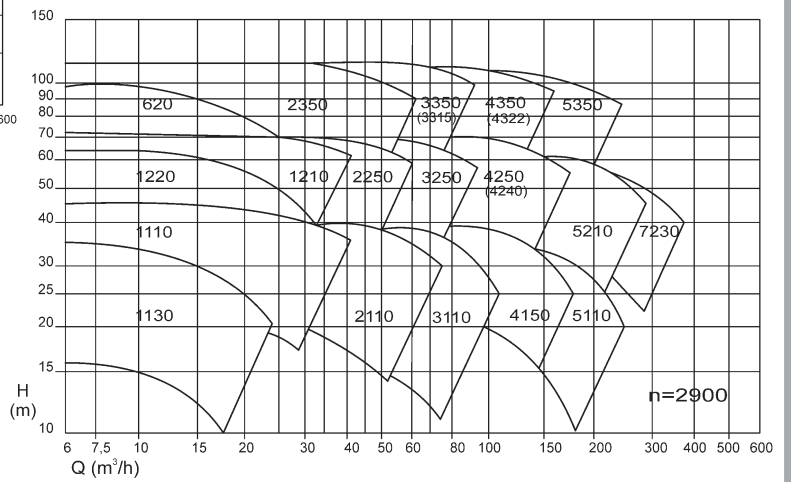
- Max capacity 500 m<sup>3</sup>/h
- Max head 120 m.l.c
- Max working pressure 1000 kPa ( 10 bar )
- Max temperature 200 °C
- Max speed 3600 rpm

# Curves

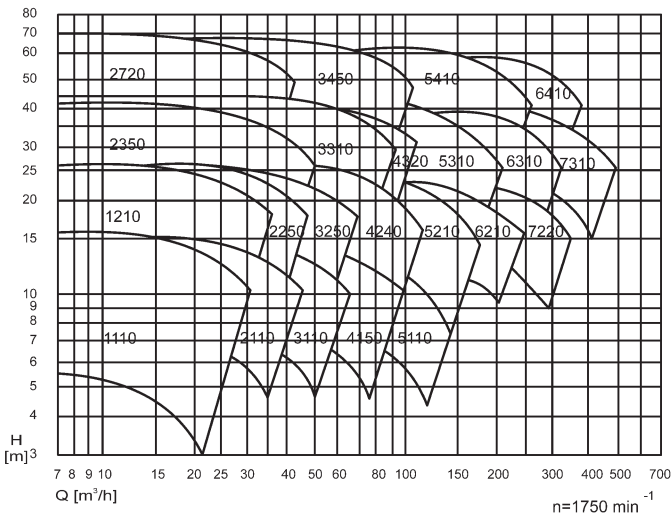
N=1450 rpm 50 Hz



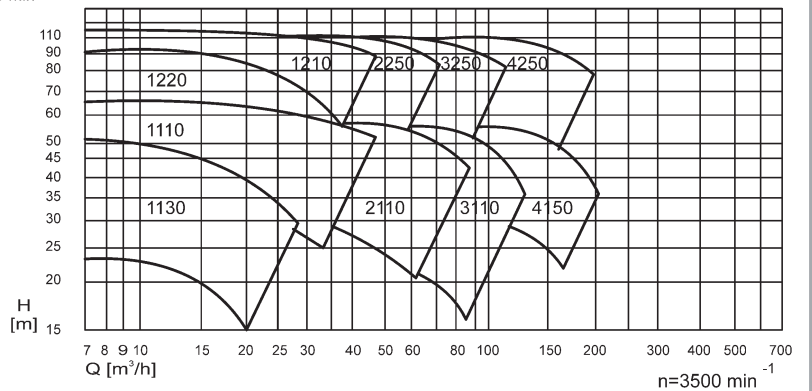
N=2900 rpm 50 Hz



N=1750 rpm 60 Hz



N=3500 rpm 60 Hz



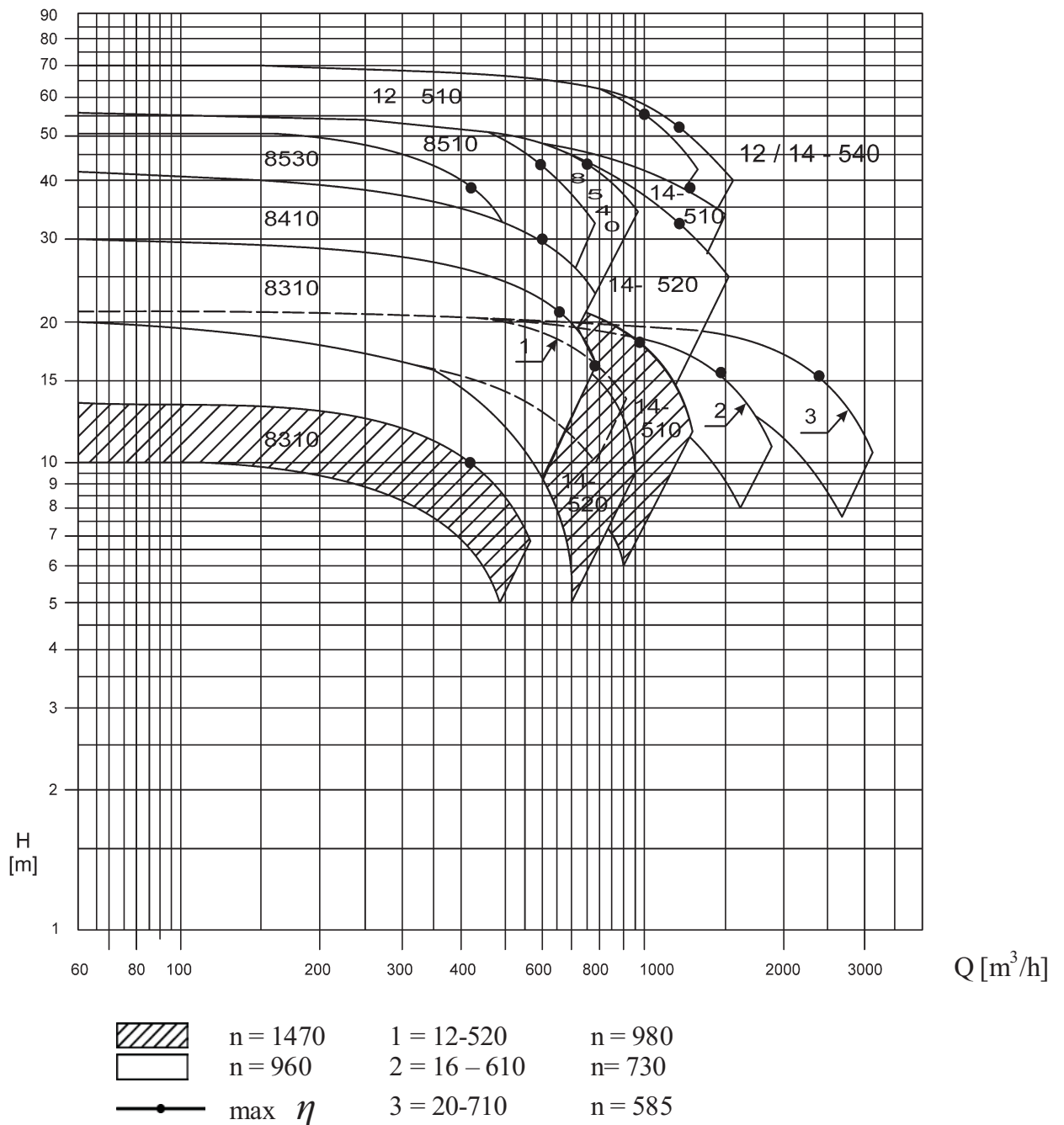
# NKE

The NKE range of pumps is basically build on the same principles as the NK range, however hydraulic fields are different in order to meet the clients requirements.

## Technical data

- Max capacity 3100 m<sup>3</sup>/h
- Max head 90 m.l.c
- Max working pressure 1000 kPa ( 10 bar )
- Max temperature 200 °C

## Curve



# Materials

<b>NK/NKE</b>				
<b>Material class</b>	<b>Standard</b>	<b>1.1.5</b>	<b>1.4.5</b>	<b>7.7.7</b>
<i>Pump casing</i>	EN	EN-GJL-250	EN-GJL-250	GX 5 CrNiMo 19-11-2
	ASTM	A 278 Class 30	A 278 Class 30	A 743 Grade CF8M
<i>Impeller</i>	EN	EN-GJL-250	CuSn10-C	GX 5 CrNiMo 19-11-2
	ASTM	A 278 Class 30		A 743 Grade CF8M
<i>Shaft</i>	EN	X 39 CrMo 17-1	X 39 CrMo 17-1	X 2 CrNiMo 17-12-2
	ASTM	SA-815 WP430	SA-815 WP430	A 479 Type 316L
<i>Shaft sleeve</i>	EN	X 39 CrMo 17-1	X 39 CrMo 17-1	X 2 CrNiMo 17-12-2
	ASTM	SA-815 WP430	SA-815 WP430	A 479 Type 316L
<i>Bearing bracket</i>	EN	EN-GJL-250	EN-GJL-250	EN-GJL-250
	ASTM	A 278 Class 30	A 278 Class 30	A 278 Class 30





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