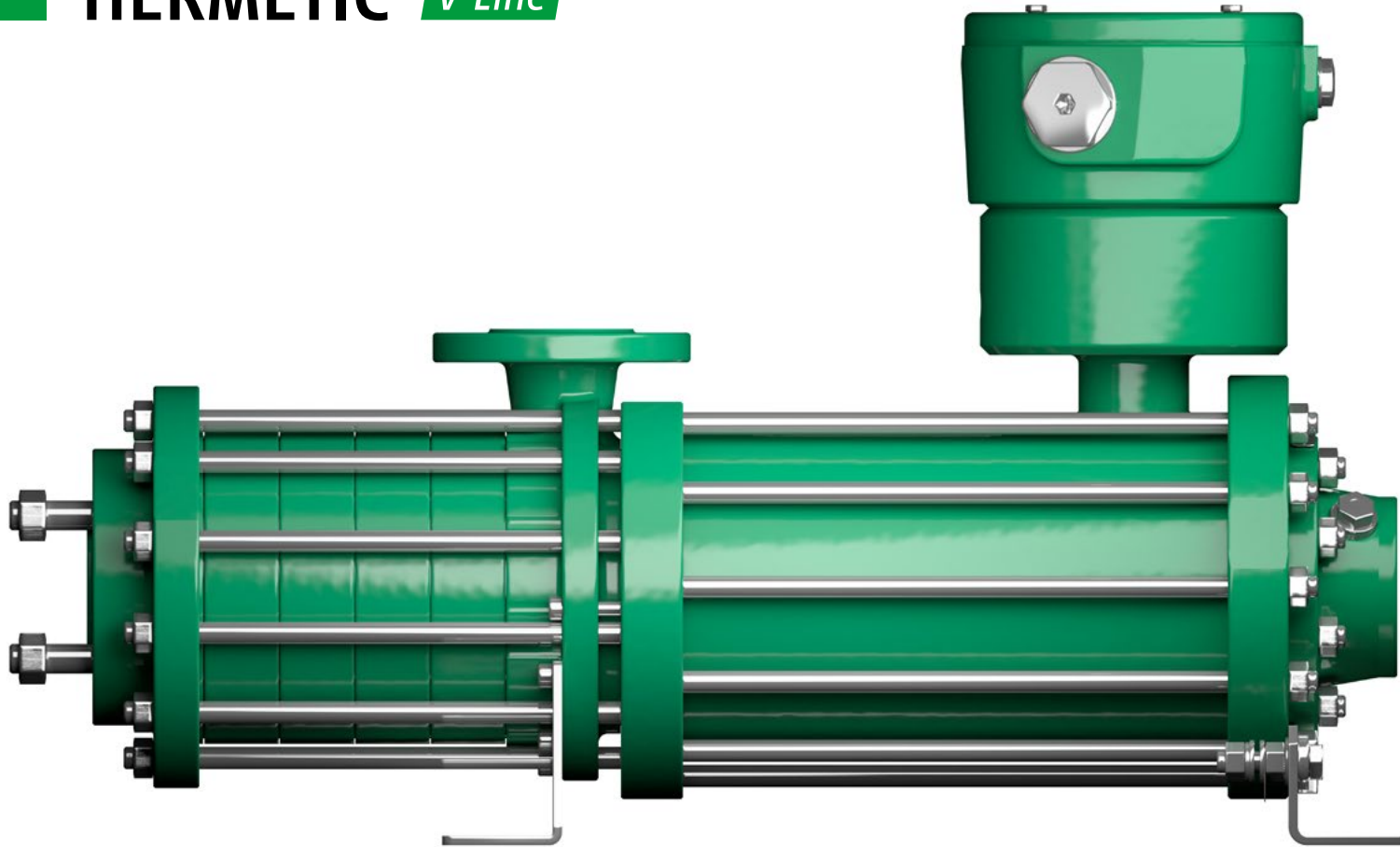


MODEL INFORMATION
CANNED MOTOR PUMP TYPE CAM

HERMETIC *V-Line*



ZART®

simply best balance

Information

Operational areas / applications

For the safe transport of aggressive, toxic, hot, explosive, valuable and flammable fluids and liquefied gases.

Model /design

Horizontal, sealless section-type pumps with completely closed canned motor, with radial impellers, multi-stage, single-flow.

Canned motor pump type CAM

This pump is suitable for conveying liquids close to steam pressure and also for standard applications.

Drive

The rotor lining, one of our core competences, is manufactured using the compact extrusion method and as a nickel-base alloy, it is an essential component of the highly efficient canned motor. The pressure-resistant enclosed version of our canned motor complies with explosion protection according to Directive 2014 / 34 / EU. The canned motor filled with liquid accelerates to the operating speed in seconds. It is wear-free and maintenance-free during continuous operation due to the hydrodynamic sleeve bearings. The canned motor with low noise and vibration and offers double security to prevent leaks.

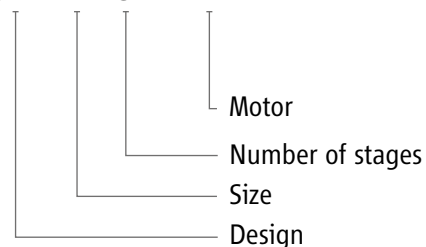
Operating data

Frequency:	50 Hz	60 Hz
Pump capacity [Q]:	1.0 to 36 m ³ /h	1.0 to 40 m ³ /h
Pumping head [H]:	up to 200 m	up to 295 m
Output power [P2]:	max. 41 kW	max. 48 kW
Conveyed material temperature [t]:	-40 °C to +120 °C	-40 °C to +120 °C
Operating pressure:	up to 40 bar	up to 40 bar

(Extended rating scheme available on request)

Pump and hydraulic denomination

CAM 2 / 5 N 14L-2



Contents

General information

Characteristic maps

Advantages

Technical data

Documentation and tests

Spare parts

Connections

Collective measurements

Monitoring equipment

Options and accessories

Contact



Advantages of the canned motor pump

100 % tightness by two safety casings

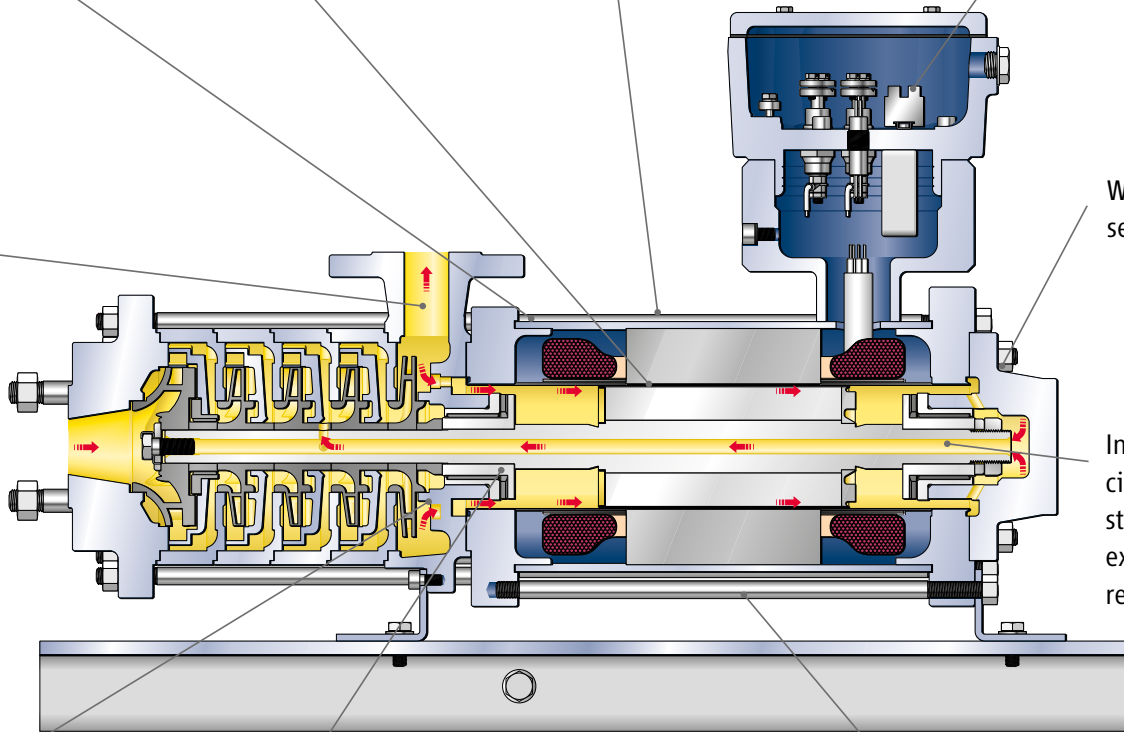
Corrosion-resistant rotor lining

Explosion-proof motor (2014/34/EU), vacuum-dried N2-inertised

Thermal motor protection to prevent overload

High level of functional safety by self-venting

Without shaft seal / sealing system



Internal partial flow circulation (also for high steam pressures), no external return line required

Contactless operation by hydrodynamic axial thrust balancing (ZART®)

Wear-resistant and smooth running slide bearing (no roller bearings subject to wear)

No coupling (no alignment of pumps / motor shaft required)

- Contents
- General information
- Characteristic maps
- Advantages
- Technical data**
- Documentation and tests
- Spare parts
- Connections
- Collective measurements
- Monitoring equipment
- Options and accessories
- Contact



Modular pump / motor systems

Hydraulics	Number of stages	Motor output power [P2 at 50 Hz / 60 Hz] max.					
		N14L-2	N24N-2	N34L-2	N34XL-2	N54XL-2	N64XL-2
		2.5 kW / 3.0 kW	6.0 kW / 7.2 kW	8.0 kW / 10.5 kW	14.8 kW / 17.2 kW	24.0 kW / 27.0 kW	41.0 kW / 48.0 kW
CAM 2	2						
	3						
	4						
	5						
CAM 30	2						
	3						
	4						
	5						
	6						
CAM 32	2						
	3						
	4						
	5						
	6						

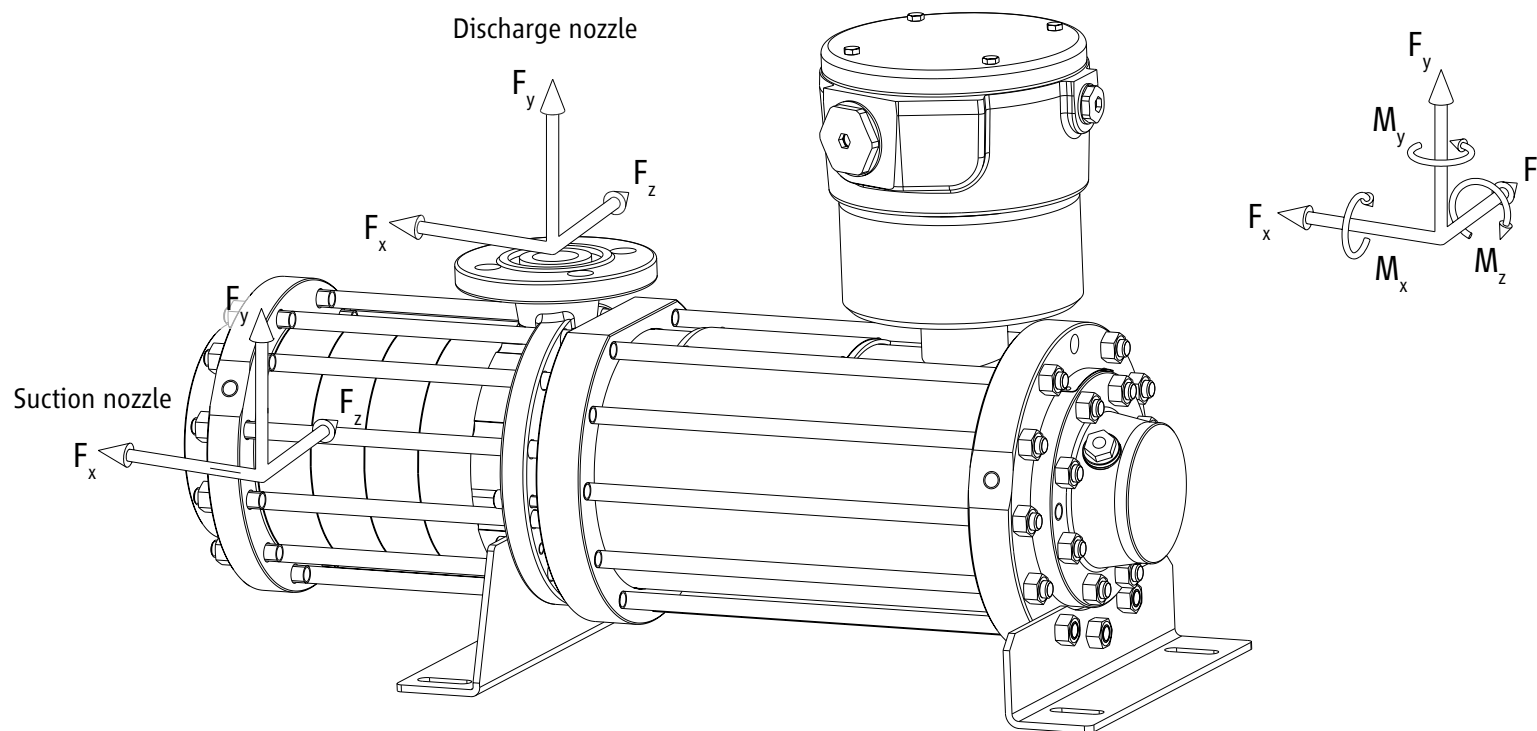
Extended rating scheme available on request

- Contents
- General information
- Characteristic maps
- Advantages
- Technical data**
- Documentation and tests
- Spare parts
- Connections
- Collective measurements
- Monitoring equipment
- Options and accessories
- Contact



Forces and torques

The pumps are designed so that they can absorb forces and torques according to ISO 5199.



Contents

General information

Characteristic maps

Advantages

Technical data

Documentation and tests

Spare parts

Connections

Collective measurements

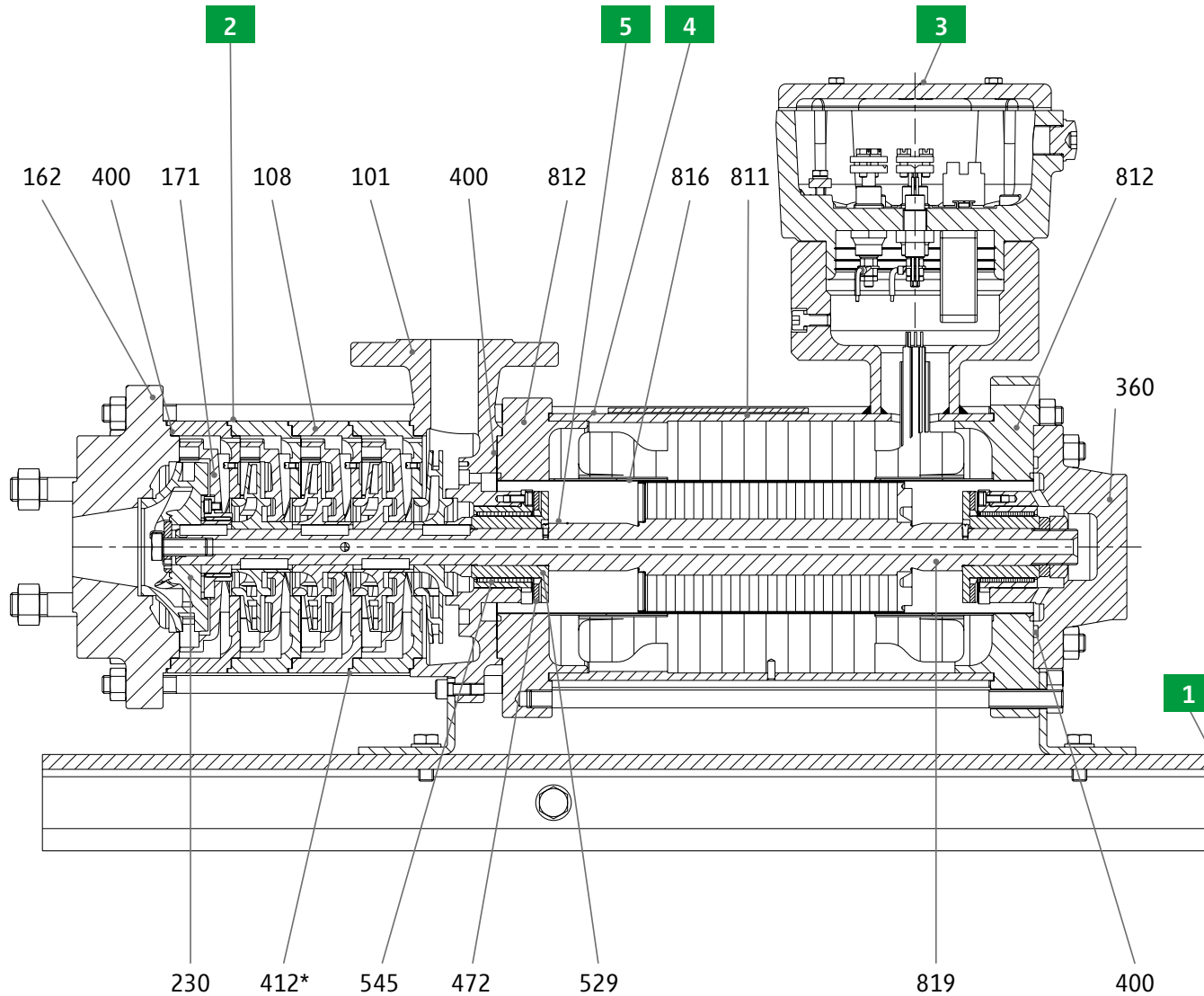
Monitoring equipment

Options and accessories

Contact



Reduced part list



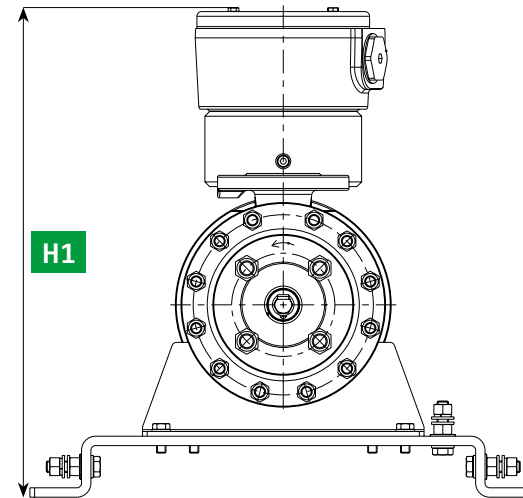
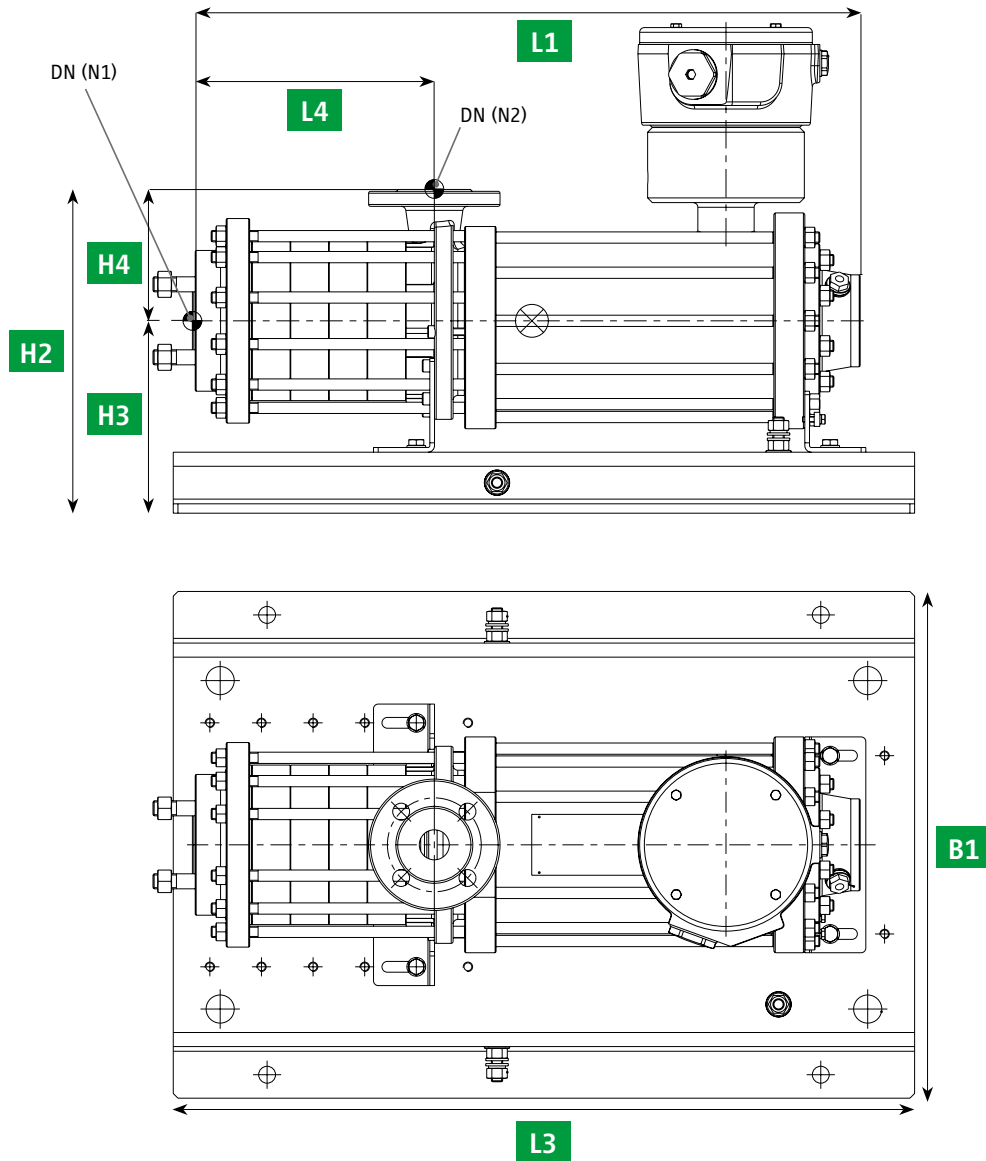
Number	Assembly drawing
1	Base plate
2	Hydraulics
3	Terminal box
4	Motor
5	Motor shaft

* only for CAM 30 / 32

- Contents
- General information
- Characteristic maps
- Advantages
- Technical data
- Documentation and tests
- Spare parts
- Connections
- Collective measurements
- Monitoring equipment
- Options and accessories
- Contact



Collective measurement drawing



- Contents
- General information
- Characteristic maps
- Advantages
- Technical data
- Documentation and tests
- Spare parts
- Connections
- Collective measurements**
- Monitoring equipment
- Options and accessories
- Contact



Collective measurement data

Hydraulics	Stages	Motor	H1	L1	H2	H3	H4	L4	L3	B1	DN (N1)	DN (N2)	Total approx. weight in kg
CAM 32	2-stage	N24N-2	578	562	470	260	210	143	790	540	80	40	200
		N34L-2	578	631	470	260	210	143	790	540	80	40	225
		N34XL-2	578	726	470	260	210	143	790	540	80	40	245
		N54XL-2	578	821	470	260	210	143	790	540	80	40	300
		N64XL-2	578	926	470	260	210	143	790	540	80	40	375
	3-stage	N24N-2	578	612	470	260	210	193	790	540	80	40	215
		N34L-2	578	681	470	260	210	193	790	540	80	40	235
		N34XL-2	578	776	470	260	210	193	790	540	80	40	260
		N54XL-2	578	871	470	260	210	193	790	540	80	40	310
		N64XL-2	578	976	470	260	210	193	790	540	80	40	390
	4-stage	N24N-2	578	662	470	260	210	243	790	540	80	40	225
		N34L-2	578	731	470	260	210	243	790	540	80	40	250
		N34XL-2	578	826	470	260	210	243	790	540	80	40	270
		N54XL-2	578	921	470	260	210	243	790	540	80	40	325
		N64XL-2	578	1026	470	260	210	243	790	540	80	40	400
	5-stage	N34XL-2	578	876	470	260	210	293	790	540	80	40	285
		N54XL-2	578	971	470	260	210	293	790	540	80	40	335
		N64XL-2	578	1076	470	260	210	293	790	540	80	40	415
	6-stage	N34XL-2	578	926	470	260	210	343	790	540	80	40	300
		N54XL-2	578	1021	470	260	210	343	790	540	80	40	340
		N64XL-2	578	1126	470	260	210	343	790	540	80	40	340

[Contents](#)
[General information](#)
[Characteristic maps](#)
[Advantages](#)
[Technical data](#)
[Documentation and tests](#)
[Spare parts](#)
[Connections](#)
[Collective measurements](#)
[Monitoring equipment](#)
[Options and accessories](#)
[Contact](#)


MODEL INFORMATION

Contact

sales-support@hermetic-pumpen.com

www.hermetic-pumpen.com

Contents

General information

Characteristic maps

Advantages

Technical data

Documentation
and tests

Spare parts

Connections

Collective measurements

Monitoring equipment

Options and accessories

Contact