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## Technical data

### Offshore K10.170 - 16

With motor

#### NU 122-2/135-o

Project ID                      Untitled project 2025-03-03 23:00:00.495  
Project name  
Installation location  
Customer pos. No.

Date    2025-03-04

#### Operating data specification

Pumped fluid	Water
Operating temperature t A	20
pH at t A	
Density at t A	998.3 kg/m <sup>3</sup>
Kin. viscosity at t A	1.005 mm <sup>2</sup> /s
Rated frequency	50
Rated flow	
Rated head	
Geodetic head	
Max. inlet pressure	0 kPa
Installation type	Vertical installation

#### Duty point data

Volume flow	
Head	
Shaft power P <sub>2</sub>	P <sub>2</sub>
Hydr. efficiency η <sub>hyd.</sub>	
Power input P <sub>1</sub>	P <sub>1</sub>
Required pump NPSH	
Rotational speed	2900 1/min

#### Pump

Make	WILO
Pump type	Offshore K10.170
Frame size	10" (Ø245 - Ø275)
Sense of rotation	Counter clockwise
Max. operating pressure	62.9 bar
Stages	16
Impeller type	Semi axial impeller
Shut off head	642 m
Max. shaft power	278 kW
Weight of unit	1151 kg
(without detachable Accessories)	

#### Discharge port

Pressure rating	PN63
Rated diameter	G 6 I
Standard	DIN ISO 228-1 (I)

#### Impeller Ø

Max.	179 mm
Min.	143 mm
designed	179 mm

According to IEC 60034-1  
No test norm defined for this product

#### Flow

Referring to: Speed in operating point	
Nominal	53 l/s
Max-	75.2 l/s
Min-	0 l/s

#### Motor

Referring to: Rated speed	
Manufacturer / Type	NU 122-2/135-o
Specific design	NU (glycol filling)
Rated power	265 kW
Electric voltage	1,000 V
Power input with rated power	298.4 kW
Current input with rated power	202.7 A
Number of poles	2
Rated speed	2903 1/min
Load	125 / 100 / 75 / 50 / 25 %
cos phi	0.86/0.85/0.82/0.76/0.57
cos phi with starting	0
Efficiency	89.8/88.8/87.4/84.8/77.4
Operation type (VDE 0530)	S1 immersed
Max. fluid temperature	40
Min. flow velocity	0.1
Starting curr. d-o-l/ YD	1,460 <del>A</del> 486.7 A
Starting torque	1180 Nm
Inertia moment	0.3557 kg m <sup>2</sup>
Starts per hour max.	10
Degree of protection	IP 68
Weight of motor	755 kg
Motor connection cable	6X 1X70 + 1X70 S07BB

Application limits for operation with frequency inverter:

- Max. voltage rise: 500 V/μs
- Max. overvoltage (phase - phase): 1000 V

#### Pump materials - Material design

	<b>O</b>
Suction piece	1.4517
Stage- /guide casing	1.4517
Impeller	1.4517
Stationary wear ring	EPDM
Pump shaft	1.4462
clamp sleeve	1.4462
Bearing sleeve	EPDM
Connecting screws	A4
Nuts	A4
Non-return valve	1.4517

#### Motor materials

Material version:	A
Shaft sealing:	Mechanical seal
Stator tube:	St
Upper bearing housing:	EN - GJL 200
Lower bearing housing:	EN - GJL 200
Lower part:	EN - GJL 200
Shaft journal:	1.4462
Rubber parts:	EPDM
Screws and nuts:	A2 - 70



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Project ID

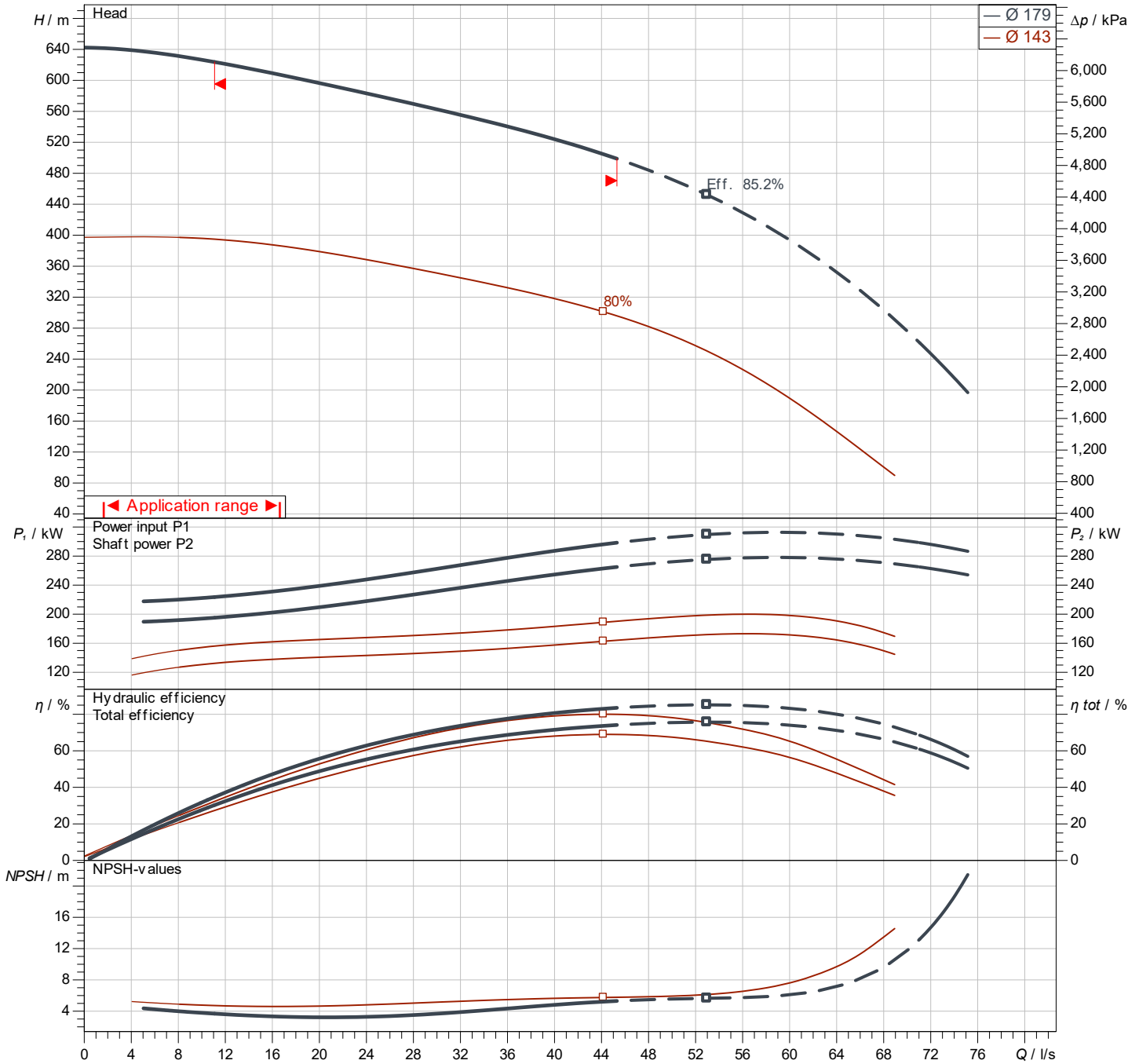
Untitled project 2025-03-03 23:00:00.495

Project name

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Date 2025-03-04



#### Pump

Stages	16
Impeller Ø designed	179 mm
Nominal speed	2,900 1/min
Frequency	50 Hz
Impeller type	Semi axial impeller

#### Motor

Rated power	265 kW
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Sel. explosion protection

Subject to change

#### Duty point data

Volume flow	
Head	
Shaft power P2	P <sub>2</sub>
Hydr. efficiency η hyd.	
Power input P1	P <sub>1</sub>
Required pump NPSH	
Rotational speed	2900 1/min

Software version  
Data version

Spaix® 5-2024.2 - 2024/09/18 (Build 140), 64 bit  
21.11.2024

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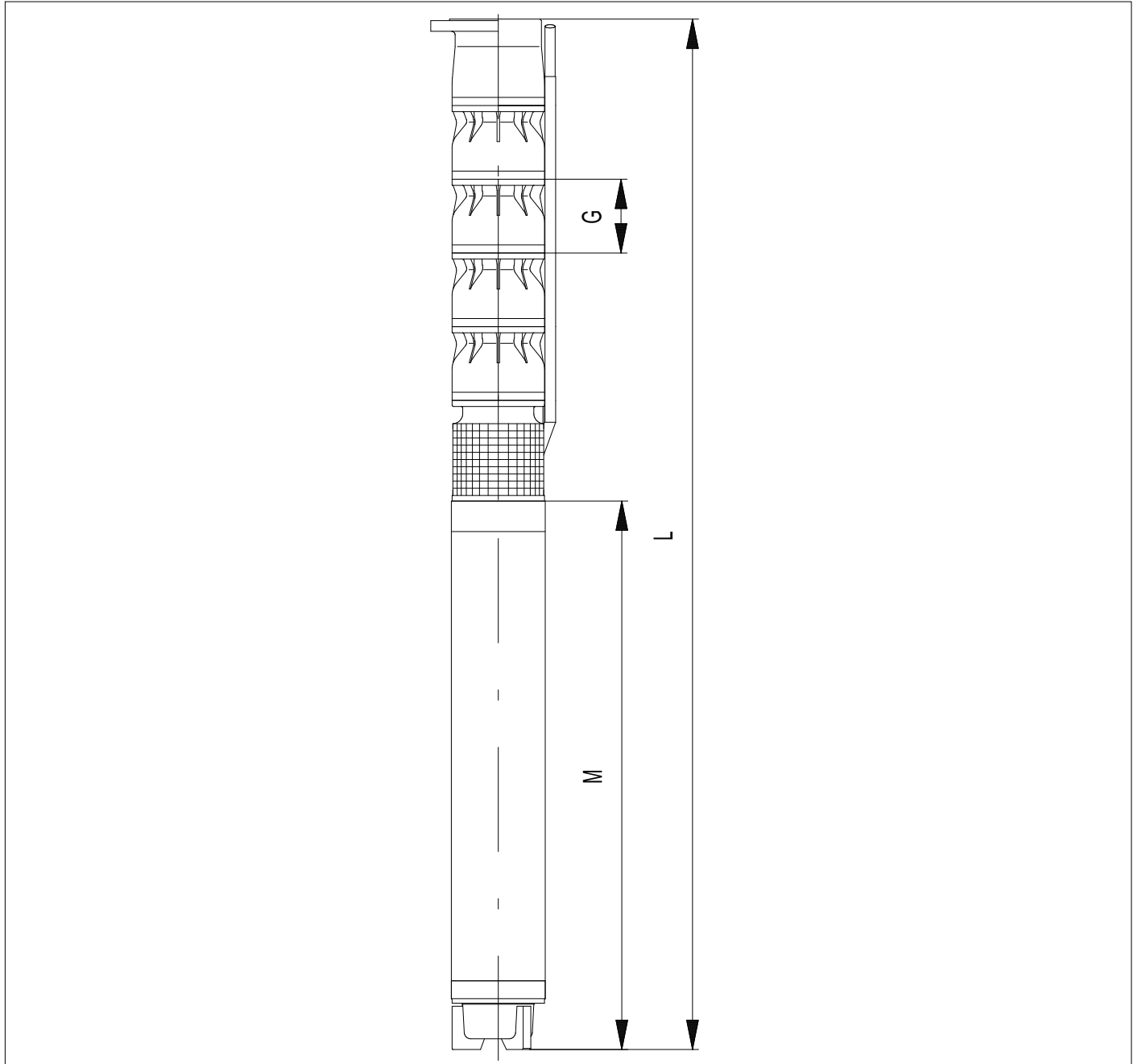
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#### Dimensions

Name	Value	Name	Value
G	170 mm		
L	5,780 mm		
M	2,520 mm		

#### Connections

Discharge port	RV G 6 I PN 63 PN63
Intake piece	
Non-return valves	no