DWK and DPK pumps

0.75 to 90 kW
50 Hz

Contents

Introduction

This data booklet describes Grundfos dewatering and drainage pumps, types DWK and DPK.

GrA 8104/GrA 8105

Fig. 1 DWK and DPK pump for free-standing installation

The pumps are designed with semi-open or enclosed impeller for pumping water in a wide range of building and industrial applications.

The pumps are made of resistant materials, such as cast iron and high-chrome stainless steel. These materials ensure proper operation.

The pumps are fitted with 2-pole motors from 0.75 kW up to 90.0 kW.

The free passage in the pumps is 10-20 mm.

The pumps are available for two installation types:

- submerged installation, free-standing (DWK and DPK)
- submerged installation on auto-coupling system (only DPK).

The pumps are ideal for the pumping of the liquids listed in section Applications.

Applications

DWK and DPK pumps are typically used for the transfer of the following liquids:

- drainage water
- surface water
- groundwater
- water containing abrasives.

Typical places: building sites, basement garages, construction building sites, low lying rainwater catchment areas, process industry etc.

Constructional features

The DWK and DPK pump design with double mechanical seal positioned in an oil chamber ensures trouble-free operation.

Discharge connection DWK

Depending on your requirements, the pump discharge is available with hose- or flange connection as standard, or without any connection as a variant.

Discharge connection DPK

The DPK pumps are delivered with JIS flanges as a standard.

DPK pumps from 2.2 kW and below are supplied with ring stand. DPK pumps from 3.7 kW and upwards are supplied without ring stand. Ring stand, elbow or auto coupling for these pumps must be ordered as accessories.

The DWK pumps are only available with suction strainer for free-standing installation.

Both pump models can be installed as single pumps or be part of multi-pump installations.

If required, the impeller diameter can be reduced so as to match a specific duty point.

The following sections give further constructional details on the three pump models DWK.O, DWK.E and DPK.

Introduction

DWK.O

- Watertight cable entry preventing water from penetrating into the motor
- No extra cable required for sensors
- Bimetallic thermal sensor for motor overheating detection, except these models:
  DWK.O.x.x.075.x.x.R
  DWK.O.x.x.15.x.x.R
  DWK.O.x.x.22.x.x.R
  DWK.O.x.x.37.x.OD.R.
- Built-in Ti-circle for motor overheating detection in these models:
  DWK.O.x.x.075.x.x.R
  DWK.O.x.x.15.x.x.R
  DWK.O.x.x.22.x.x.R
  DWK.O.x.x.37.x.OD.R.
- Seal sensor for continuous monitoring of motor enclosure for liquid detection, except in these models:
  DWK.O.x.x.075.x.x
  DWK.O.x.x.15.x.x
  DWK.O.x.x.22.x.x
  DWK.O.x.x.37.x.x
- Top discharge port contributing to compact and narrow design
- In R-versions high-chrome stainless steel impeller and stainless steel suction cover for increased wear resistance when pumping water containing abrasives
- Double mechanical seal (SiC-SiC) for heavy duty conditions
- High-efficiency motor for high and stable performance and low operating costs.

DWK.E

- Triple cable entry system consisting of a rubber ring with epoxy diaphragm barrier and a rubber cover ensures water proof operation
- No extra cable required for sensors, except in these models:
  DWK.E.x.x.75.x.x.x
  DWK.E.x.x.90.x.x.x
- Bimetallic thermal sensor for motor overheating detection
- Seal sensor for continuous monitoring of motor enclosure for liquid detection.
- Top discharge port contributing to compact and narrow design
- Motor cooling jacket contributing to motor cooling and enabling water level down to top of suction strainer
- In R-versions high-chrome stainless steel impeller and stainless steel suction cover for increased wear resistance when pumping water containing abrasives
- Triple sealing system consisting of a double mechanical shaft seal (SiC-SiC) in the oil chamber and an extra lip seal to withstand high pressures
- High-efficiency motor for high and stable performance and low operating costs.

DPK

- Watertight cable entry preventing water from penetrating into the motor
- No extra cable required for sensors
- Bimetallic thermal sensor for motor overheating detection
- Seal sensor for continuous monitoring of motor enclosure for liquid detection, except in these models:
  DPK.x.x.075.x.x
  DPK.x.x.15.x.x
  DPK.x.x.22.x.x
  DPK.x.x.37.x.x
- Ductile cast iron impeller for high and stable performance
- Double mechanical seal (SiC-SiC) for heavy duty conditions
- High-efficiency motor for high and stable performance and low operating costs.

Identification

Type keys

DWK

Code	Example	DWK	.O	.6	.50	.075	.S	.5	.0D	R
DWK	Grundfos dewatering pump									
O	Semi-open impeller									
E	Enclosed impeller									
	Strainer hole size:									
6	Maximum solids size [mm]									
	Pump discharge:									
50	Nominal diameter of pump discharge port [mm]									
	Code for output power, P2:									
075	P2* = Code number from type designation/10 [kW]									
	Equipment:									
-	Standard									
S	With extra sensor (only for 0.75 - 3.7 kW)									
	Frequency:									
5	50 Hz									
6	60 Hz									
	Voltage and starting method:									
0D	380-415 V, DOL									
1D	380-415 V, Y/D									
0E	220-240 V, DOL									
1E	220-240 V, Y/D									
	Material in pump:									
[ ]	Standard									
R	Cast iron pump with high-crome stainless steel impeller and suction strainer									

* Exception: Code 075 = 0.75 kW

Note: The pumps are not available in all variants.

DPK

Code	Example	DPK	.10	.50	.075	.S	.5	.0D
DPK	Grundfos drainage pump							
	Free passage:							
10	Maximum solids size [mm]							
	Pump discharge:							
50	Nominal diameter of pump discharge port [mm]							
	Code for output power, P2:							
075	P2* = Code number from type designation/10 [kW]							
	Equipment:							
-	Standard							
S	With extra sensor (only for 0.75 - 3.7 kW)							
	Frequency:							
5	50 Hz							
6	60 Hz							
	Voltage and starting method:							
0D	380-415 V, DOL							
1D	380-415 V, Y/D							
0E	220-240 V, DOL							
1E	220-240 V, Y/D							

* Exception: Code 075 = 0.75 kW

Note: The pumps are not available in all variants.

Identification

Nameplate

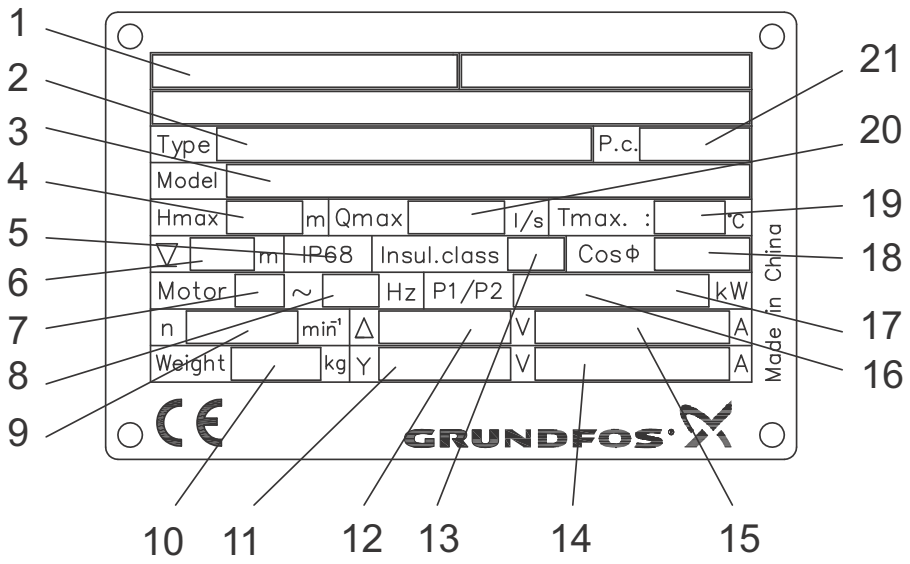

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Fig. 2 DWK and DPK nameplate

Pos.	Description
1	Notified body
2	Type designation
3	Product number and serial number
4	Maximum head [m]
5	Enclosure class
6	Maximum installation depth [m]
7	Number of phases
8	Frequency [Hz]
9	Speed [min^{-1}]
10	Weight
11	Rated voltage [V] Star
12	Rated voltage [V] Delta
13	Insulation class
14	Rated current [A] Star
15	Rated current [A] Delta
16	Motor input power P1 [kW]
17	Motor output power P2 [kW]
18	Power factor
19	Maximum liquid temperature [°C]
20	Maximum flow [m^3/h]
21	Production code (year/week)

Ordering a pump

When ordering a pump, you need to take the following six aspects into consideration:

1. pump type
2. custom-built variant (option)
3. accessories
4. controller
5. installation type and discharge connection type for DPK
6. discharge connection type for DWK.

Pump

Use the following table to identify which type of pump that best meets your needs. The table is for guidance only.

Application	DWK		DPK
	O	E	
Groundwater	x	x	x
Drainage and surface water	x	x	x
Drainage and surface water with small impurities			x
Abrasive surface water	x	x	
Industrial process water without solids and fibres	x	x	x

When you have selected the pump type, you can identify the specific pump that best meets your needs in section Product range on page 11 and Type keys on page 5. The list below is a detailed description of the product you get if you order the following pump:

Pump	Product no
DWK.O.6.50.075.5.OD	96922639

- Pump as specified in the type key
- 10 m cable
- Paint: NSC 8005-R80B (dark grey), gloss code 35, thickness 100 µ
- Bimetallic thermal sensor for motor overheating detection, except in these models:
  DWK.O.x.x.075.x.x.R
  DWK.O.x.x.15.x.x.R
  DWK.O.x.x.22.x.x.R
  DWK.O.x.x.37.x.OD.R.
- Built-in TI thermal sensor for motor overheating detection in these models:
  DWK.O.x.x.075.x.x.R
  DWK.O.x.x.15.x.x.R
  DWK.O.x.x.22.x.x.R
  DWK.O.x.x.37.x.OD.R.
- Seal sensor for continuous monitoring of motor enclosure for liquid detection, except in these models:
  DWK.O.x.x.075.x.x
  DWK.O.x.x.15.x.x
  DWK.O.x.x.22.x.x
  DWK.O.x.x.37.x.x
- Tested according to DIN 9906, Annex A.
- DWK comes with a DIN flange discharge connection as standard.
- DWK R version comes with a hose discharge connection as standard.

If you order a DPK pump from 2.2 kW and below, it will be supplied with ring stand for free-standing installation. DPK pumps from 3.7 kW and upwards are supplied without ring stand. Ring stand, elbow or auto coupling for these pumps must be ordered as accessories.

Note: As standard, DPK pumps have JIS discharge connection. If the installation connection is not a JIS connection, ask for an adapter (e.g. a DIN-JIS or ANSI-JIS discharge elbow). See section Accessories.

See section Performance curves/ Technical data for selection of a standard pump.

Note: Product specific data for the pump can also be found in WebCAPS using the product number 96922639.

Custom-built variants

The pumps can be customised to meet individual requirements. Many pump features and options are available for customisation, such as voltage, various cable lengths, special materials etc.

Variants can be seen in the table in the section List of variants on page 15. For requirements or designs not mentioned in the table, contact Grundfos.

Accessories

Depending on the installation type, accessories may be required. See section Accessories on page 124 for selection of the correct accessories.

Note: Accessories ordered are not fitted from factory.

Controller

The following controllers are available:

- GU01
- GU02
- LC/LCD 108 with float switches
- LC/LCD 110 with water level electrodes.

Performance range

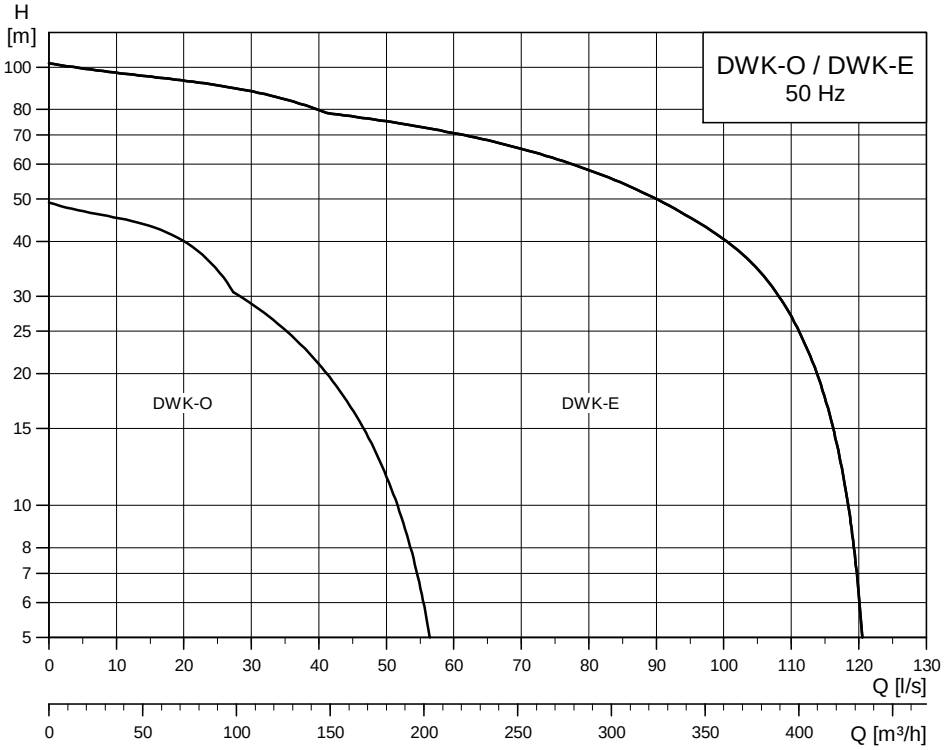

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Fig. 3 Performance range DWK

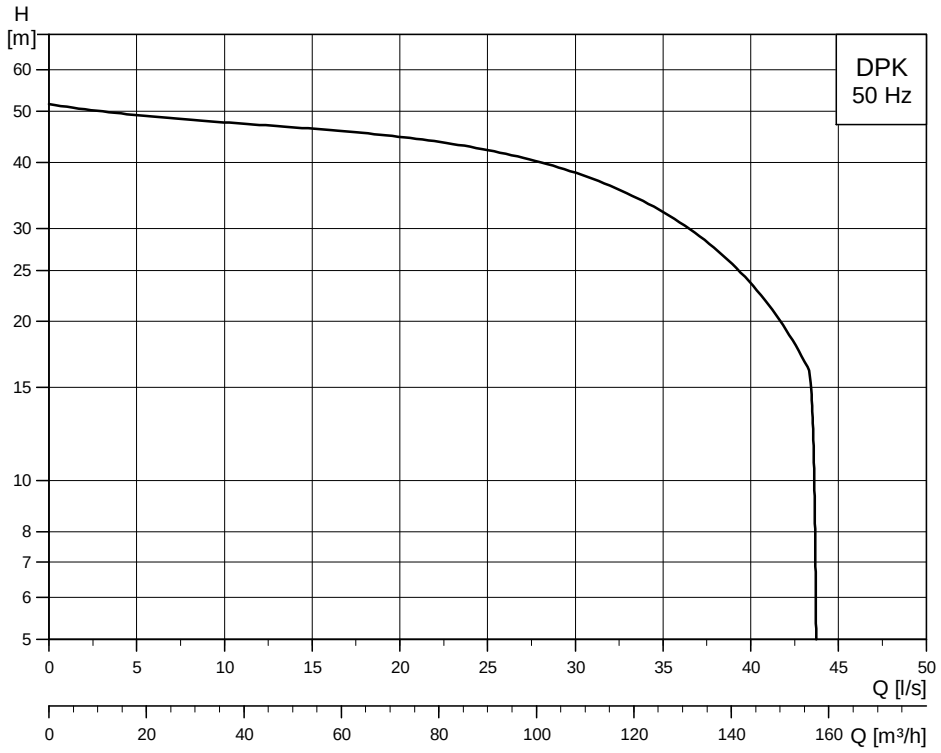

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Fig. 4 Performance range DPK

Performance range

Curves for a specific pump can be found in section Performance curves/ Technical data. The table below states on which pages the curve charts for the pump types mentioned can be seen.

DWK.O	
Pump type	**Page**
DWK.O.6.50.075	50
DWK.O.6.50.15	52
DWK.O.6.50.22	54
DWK.O.6.80.15	56
DWK.O.6.80.22	58
DWK.O.10.80.37	60
DWK.O.13.80.55	62
DWK.O.13.100.55	66
DWK.O.13.100.75	68
DWK.O.13.100.110	70
DWK.O.13.100.150	72
DWK.O.13.150.75	74
DWK.O.13.150.110	76
DWK.O.13.150.150	78

DWK.E	
Pump type	**Page**
DWK.E.10.100.220	80
DWK.E.10.150.220	82
DWK.E.10.150.300	84
DWK.E.10.150.370	86
DWK.E.10.150.450	88
DWK.E.10.150.550	90
DWK.E.10.200.300	92
DWK.E.10.200.370	94
DWK.E.10.200.450	96
DWK.E.10.200.550	98
DWK.E.10.200.750	100
DWK.E.10.200.900	102

DPK	
Pump type	**Page**
DPK.10.50.075	104
DPK.10.50.15	106
DPK.10.80.22	108
DPK.15.80.37	110
DPK.15.80.55	112
DPK.15.100.75	114
DPK.20.100.110	116
DPK.20.100.150	118
DPK.20.150.190	120
DPK.20.150.220	122

DWK.O

Pump type	Voltage [V]	Starting method	Thermal protection	Impeller type	Product number
DWK.O.6.50.075.5.0D	3 x 380-415 V Y	DOL	Bi-metal	Semi-open	96922639
DWK.O.6.50.075.5.0E	3 x 220-240 V D	DOL	Bi-metal	Semi-open	96922640
DWK.O.6.50.075.5.0D.R	3 x 380-415 V Y	DOL	Ti-circle	Semi-open	96922719
DWK.O.6.50.075.5.0E.R	3 x 220-240 V D	DOL	Ti-circle	Semi-open	96922720
DWK.O.6.50.15.5.0D	3 x 380-415 V Y	DOL	Bi-metal	Semi-open	96922641
DWK.O.6.50.15.5.0E	3 x 220-240 V D	DOL	Bi-metal	Semi-open	96922642
DWK.O.6.50.15.5.0D.R	3 x 380-415 V Y	DOL	Ti-circle	Semi-open	96922721
DWK.O.6.50.15.5.0E.R	3 x 220-240 V D	DOL	Ti-circle	Semi-open	96922722
DWK.O.6.50.22.5.0D	3 x 380-415 V Y	DOL	Bi-metal	Semi-open	96922645
DWK.O.6.50.22.5.0E	3 x 220-240 V D	DOL	Bi-metal	Semi-open	96922646
DWK.O.6.50.22.5.0D.R	3 x 380-415 V Y	DOL	Ti-circle	Semi-open	96922725
DWK.O.6.50.22.5.0E.R	3 x 220-240 V D	DOL	Ti-circle	Semi-open	96922726
DWK.O.6.80.15.5.0D	3 x 380-415 V Y	DOL	Bi-metal	Semi-open	96922643
DWK.O.6.80.15.5.0E	3 x 220-240 V D	DOL	Bi-metal	Semi-open	96922644
DWK.O.6.80.15.5.0D.R	3 x 380-415 V Y	DOL	Ti-circle	Semi-open	96922723
DWK.O.6.80.15.5.0E.R	3 x 220-240 V D	DOL	Ti-circle	Semi-open	96922724
DWK.O.6.80.22.5.0D	3 x 380-415 V Y	DOL	Bi-metal	Semi-open	96922647
DWK.O.6.80.22.5.0E	3 x 220-240 V D	DOL	Bi-metal	Semi-open	96922648
DWK.O.6.80.22.5.0D.R	3 x 380-415 V Y	DOL	Ti-circle	Semi-open	96922727
DWK.O.6.80.22.5.0E.R	3 x 220-240 V D	DOL	Ti-circle	Semi-open	96922728
DWK.O.10.100.37.5.0D	3 x 380-415 V Y	DOL	Bi-metal	Semi-open	96922651
DWK.O.10.100.37.5.0E	3 x 220-240 V D	DOL	Bi-metal	Semi-open	96922652
DWK.O.10.100.37.5.0D.R	3 x 380-415 V Y	DOL	Ti-circle	Semi-open	96922731
DWK.O.10.100.37.5.0E.R	3 x 220-240 V D	DOL	Bi-metal	Semi-open	96922732
DWK.O.10.80.37.5.0D	3 x 380-415 V Y	DOL	Bi-metal	Semi-open	96922649
DWK.O.10.80.37.5.0E	3 x 220-240 V D	DOL	Bi-metal	Semi-open	96922650
DWK.O.10.80.37.5.0D.R	3 x 380-415 V Y	DOL	Ti-circle	Semi-open	96922729
DWK.O.10.80.37.5.0E.R	3 x 220-240 V D	DOL	Bi-metal	Semi-open	96922730
DWK.O.13.80.55.5.0D	3 x 380-415 V Y	DOL	Bi-metal	Semi-open	96922653
DWK.O.13.80.55.5.0E	3 x 220-240 V D	DOL	Bi-metal	Semi-open	96922654
DWK.O.13.80.55.5.0D.R	3 x 380-415 V Y	DOL	Bi-metal	Semi-open	96922733
DWK.O.13.80.55.5.0E.R	3 x 220-240 V D	DOL	Bi-metal	Semi-open	96922734
DWK.O.13.80.55.5.1D	3 x 380-415 V Y	Y/D	Bi-metal	Semi-open	96926046
DWK.O.13.80.55.5.1E	3 x 220-240 V D	Y/D	Bi-metal	Semi-open	96926047
DWK.O.13.80.55.5.1D.R	3 x 380-415 V Y	Y/D	Bi-metal	Semi-open	96926078
DWK.O.13.80.55.5.1E.R	3 x 220-240 V D	Y/D	Bi-metal	Semi-open	96926079
DWK.O.13.100.55.5.0D	3 x 380-415 V Y	DOL	Bi-metal	Semi-open	96922655
DWK.O.13.100.55.5.0E	3 x 220-240 V D	DOL	Bi-metal	Semi-open	96922656
DWK.O.13.100.55.5.0D.R	3 x 380-415 V Y	DOL	Bi-metal	Semi-open	96922735
DWK.O.13.100.55.5.0E.R	3 x 220-240 V D	DOL	Bi-metal	Semi-open	96922736
DWK.O.13.100.55.5.1D	3 x 380-415 V Y	Y/D	Bi-metal	Semi-open	96926048
DWK.O.13.100.55.5.1E	3 x 220-240 V D	Y/D	Bi-metal	Semi-open	96926049
DWK.O.13.100.55.5.1D.R	3 x 380-415 V Y	Y/D	Bi-metal	Semi-open	96926080
DWK.O.13.100.55.5.1E.R	3 x 220-240 V D	Y/D	Bi-metal	Semi-open	96926081
DWK.O.13.100.75.5.0D	3 x 380-415 V Y	DOL	Bi-metal	Semi-open	96922657
DWK.O.13.100.75.5.0E	3 x 220-240 V D	DOL	Bi-metal	Semi-open	96922658
DWK.O.13.100.75.5.0D.R	3 x 380-415 V Y	DOL	Bi-metal	Semi-open	96922737
DWK.O.13.100.75.5.0E.R	3 x 220-240 V D	DOL	Bi-metal	Semi-open	96922738
DWK.O.13.100.75.5.1D	3 x 380-415 V Y	Y/D	Bi-metal	Semi-open	96926050
DWK.O.13.100.75.5.1E	3 x 220-240 V D	Y/D	Bi-metal	Semi-open	96926051
DWK.O.13.100.75.5.1D.R	3 x 380-415 V Y	Y/D	Bi-metal	Semi-open	96926082
DWK.O.13.100.75.5.1E.R	3 x 220-240 V D	Y/D	Bi-metal	Semi-open	96926083
DWK.O.13.100.110.5.0D	3 x 380-415 V Y	DOL	Bi-metal	Semi-open	96922661
DWK.O.13.100.110.5.0E	3 x 220-240 V D	DOL	Bi-metal	Semi-open	96922662
DWK.O.13.100.110.5.0D.R	3 x 380-415 V Y	DOL	Bi-metal	Semi-open	96922741
DWK.O.13.100.110.5.0E.R	3 x 220-240 V D	DOL	Bi-metal	Semi-open	96922742
DWK.O.13.100.110.5.1D	3 x 380-415 V Y	Y/D	Bi-metal	Semi-open	96926054
DWK.O.13.100.110.5.1E	3 x 220-240 V D	Y/D	Bi-metal	Semi-open	96926055
DWK.O.13.100.110.5.1D.R	3 x 380-415 V Y	Y/D	Bi-metal	Semi-open	96926086

Product range

Pump type	Voltage [V]	Starting method	Thermal protection	Impeller type	Product number
DWK.O.13.100.110.5.1E.R	3 x 220-240 V D	Y/D	Bi-metal	Semi-open	96926087
DWK.O.13.100.150.5.0D	3 x 380-415 V Y	DOL	Bi-metal	Semi-open	96922665
DWK.O.13.100.150.5.0D.R	3 x 380-415 V Y	DOL	Bi-metal	Semi-open	96922745
DWK.O.13.100.150.5.0E	3 x 220-240 V D	DOL	Bi-metal	Semi-open	96925963
DWK.O.13.100.150.5.0E.R	3 x 220-240 V D	DOL	Bi-metal	Semi-open	96925989
DWK.O.13.100.150.5.1D	3 x 380-415 V Y	Y/D	Bi-metal	Semi-open	96926058
DWK.O.13.100.150.5.1E	3 x 220-240 V D	Y/D	Bi-metal	Semi-open	96926059
DWK.O.13.100.150.5.1D.R	3 x 380-415 V Y	Y/D	Bi-metal	Semi-open	96926090
DWK.O.13.100.150.5.1E.R	3 x 220-240 V D	Y/D	Bi-metal	Semi-open	96926091
DWK.O.13.150.75.5.0D	3 x 380-415 V Y	DOL	Bi-metal	Semi-open	96922659
DWK.O.13.150.75.5.0E	3 x 220-240 V D	DOL	Bi-metal	Semi-open	96922660
DWK.O.13.150.75.5.0D.R	3 x 380-415 V Y	DOL	Bi-metal	Semi-open	96922739
DWK.O.13.150.75.5.0E.R	3 x 220-240 V D	DOL	Bi-metal	Semi-open	96922740
DWK.O.13.150.75.5.1D	3 x 380-415 V Y	Y/D	Bi-metal	Semi-open	96926052
DWK.O.13.150.75.5.1E	3 x 220-240 V D	Y/D	Bi-metal	Semi-open	96926053
DWK.O.13.150.75.5.1D.R	3 x 380-415 V Y	Y/D	Bi-metal	Semi-open	96926084
DWK.O.13.150.75.5.1E.R	3 x 220-240 V D	Y/D	Bi-metal	Semi-open	96926085
DWK.O.13.150.110.5.0D	3 x 380-415 V Y	DOL	Bi-metal	Semi-open	96922663
DWK.O.13.150.110.5.0E	3 x 220-240 V D	DOL	Bi-metal	Semi-open	96922664
DWK.O.13.150.110.5.0D.R	3 x 380-415 V Y	DOL	Bi-metal	Semi-open	96922743
DWK.O.13.150.110.5.0E.R	3 x 220-240 V D	DOL	Bi-metal	Semi-open	96922744
DWK.O.13.150.110.5.1D	3 x 380-415 V Y	Y/D	Bi-metal	Semi-open	96926056
DWK.O.13.150.110.5.1E	3 x 220-240 V D	Y/D	Bi-metal	Semi-open	96926057
DWK.O.13.150.110.5.1D.R	3 x 380-415 V Y	Y/D	Bi-metal	Semi-open	96926088
DWK.O.13.150.110.5.1E.R	3 x 220-240 V D	Y/D	Bi-metal	Semi-open	96926089
DWK.O.13.150.150.5.0D	3 x 380-415 V Y	DOL	Bi-metal	Semi-open	96922666
DWK.O.13.150.150.5.0D.R	3 x 380-415 V Y	DOL	Bi-metal	Semi-open	96922746
DWK.O.13.150.150.5.0E	3 x 220-240 V D	DOL	Bi-metal	Semi-open	96925964
DWK.O.13.150.150.5.0E.R	3 x 220-240 V D	DOL	Bi-metal	Semi-open	96925990
DWK.O.13.150.150.5.1D	3 x 380-415 V Y	Y/D	Bi-metal	Semi-open	96926060
DWK.O.13.150.150.5.1E	3 x 220-240 V D	Y/D	Bi-metal	Semi-open	96926061
DWK.O.13.150.150.5.1D.R	3 x 380-415 V Y	Y/D	Bi-metal	Semi-open	96926092
DWK.O.13.150.150.5.1E.R	3 x 220-240 V D	Y/D	Bi-metal	Semi-open	96926093

DWK.E

Pump type	Voltage [V]	Starting method	Thermal protection	Impeller type	Product number
DWK.E.10.100.220.5.1D	3 x 380-415 V Y	Y/D	Bi-metal	Enclosed	96922667
DWK.E.10.100.220.5.1D.R	3 x 380-415 V Y	Y/D	Bi-metal	Enclosed	96922747
DWK.E.10.100.220.5.1E	3 x 220-240 V D	Y/D	Bi-metal	Enclosed	96925967
DWK.E.10.100.220.5.1E.R	3 x 220-240 V D	Y/D	Bi-metal	Enclosed	96925991
DWK.E.10.150.220.5.1D	3 x 380-415 V Y	Y/D	Bi-metal	Enclosed	96922668
DWK.E.10.150.220.5.1D.R	3 x 380-415 V Y	Y/D	Bi-metal	Enclosed	96922748
DWK.E.10.150.220.5.1E	3 x 220-240 V D	Y/D	Bi-metal	Enclosed	96925968
DWK.E.10.150.220.5.1E.R	3 x 220-240 V D	Y/D	Bi-metal	Enclosed	96925992
DWK.E.10.150.300.5.1D	3 x 380-415 V Y	Y/D	Bi-metal	Enclosed	96922669
DWK.E.10.150.300.5.1D.R	3 x 380-415 V Y	Y/D	Bi-metal	Enclosed	96922749
DWK.E.10.150.300.5.1E	3 x 220-240 V D	Y/D	Bi-metal	Enclosed	96925969
DWK.E.10.150.300.5.1E.R	3 x 220-240 V D	Y/D	Bi-metal	Enclosed	96925993
DWK.E.10.150.370.5.1D	3 x 380-415 V Y	Y/D	Bi-metal	Enclosed	96922671
DWK.E.10.150.370.5.1D.R	3 x 380-415 V Y	Y/D	Bi-metal	Enclosed	96922751
DWK.E.10.150.370.5.1E	3 x 220-240 V D	Y/D	Bi-metal	Enclosed	96925971
DWK.E.10.150.370.5.1E.R	3 x 220-240 V D	Y/D	Bi-metal	Enclosed	96925995
DWK.E.10.150.450.5.1D	3 x 380-415 V Y	Y/D	Bi-metal	Enclosed	96922673
DWK.E.10.150.450.5.1D.R	3 x 380-415 V Y	Y/D	Bi-metal	Enclosed	96922753
DWK.E.10.150.450.5.1E	3 x 220-240 V D	Y/D	Bi-metal	Enclosed	96925973
DWK.E.10.150.450.5.1E.R	3 x 220-240 V D	Y/D	Bi-metal	Enclosed	96925997
DWK.E.10.150.550.5.1D	3 x 380-415 V Y	Y/D	Bi-metal	Enclosed	96922675
DWK.E.10.150.550.5.1D.R	3 x 380-415 V Y	Y/D	Bi-metal	Enclosed	96922755
DWK.E.10.150.550.5.1E	3 x 220-240 V D	Y/D	Bi-metal	Enclosed	96925975
DWK.E.10.150.550.5.1E.R	3 x 220-240 V D	Y/D	Bi-metal	Enclosed	96925999
DWK.E.10.200.300.5.1D	3 x 380-415 V Y	Y/D	Bi-metal	Enclosed	96922670
DWK.E.10.200.300.5.1D.R	3 x 380-415 V Y	Y/D	Bi-metal	Enclosed	96922750
DWK.E.10.200.300.5.1E	3 x 220-240 V D	Y/D	Bi-metal	Enclosed	96925970
DWK.E.10.200.300.5.1E.R	3 x 220-240 V D	Y/D	Bi-metal	Enclosed	96925994
DWK.E.10.200.370.5.1D	3 x 380-415 V Y	Y/D	Bi-metal	Enclosed	96922672
DWK.E.10.200.370.5.1D.R	3 x 380-415 V Y	Y/D	Bi-metal	Enclosed	96922752
DWK.E.10.200.370.5.1E	3 x 220-240 V D	Y/D	Bi-metal	Enclosed	96925972
DWK.E.10.200.370.5.1E.R	3 x 220-240 V D	Y/D	Bi-metal	Enclosed	96925996
DWK.E.10.200.450.5.1D	3 x 380-415 V Y	Y/D	Bi-metal	Enclosed	96922674
DWK.E.10.200.450.5.1D.R	3 x 380-415 V Y	Y/D	Bi-metal	Enclosed	96922754
DWK.E.10.200.450.5.1E	3 x 220-240 V D	Y/D	Bi-metal	Enclosed	96925974
DWK.E.10.200.450.5.1E.R	3 x 220-240 V D	Y/D	Bi-metal	Enclosed	96925998
DWK.E.10.200.550.5.1D	3 x 380-415 V Y	Y/D	Bi-metal	Enclosed	96922676
DWK.E.10.200.550.5.1D.R	3 x 380-415 V Y	Y/D	Bi-metal	Enclosed	96922756
DWK.E.10.200.550.5.1E	3 x 220-240 V D	Y/D	Bi-metal	Enclosed	96925976
DWK.E.10.200.550.5.1E.R	3 x 220-240 V D	Y/D	Bi-metal	Enclosed	96926000
DWK.E.10.200.750.5.1D	3 x 380-415 V Y	Y/D	Bi-metal	Enclosed	96922677
DWK.E.10.200.750.5.1D.R	3 x 380-415 V Y	Y/D	Bi-metal	Enclosed	96922757
DWK.E.10.200.750.5.1E	3 x 220-240 V D	Y/D	Bi-metal	Enclosed	96925977
DWK.E.10.200.750.5.1E.R	3 x 220-240 V D	Y/D	Bi-metal	Enclosed	96926001
DWK.E.10.200.900.5.1D	3 x 380-415 V Y	Y/D	Bi-metal	Enclosed	96922678
DWK.E.10.200.900.5.1D.R	3 x 380-415 V Y	Y/D	Bi-metal	Enclosed	96922758

DPK

Pump type	Voltage [V]	Starting method	Thermal protection	Impeller type	Product number
DPK.10.50.075.5.0D	3 x 380-415 V Y	DOL	Bi-metal	Semi-open	96884078
DPK.10.50.075.5.0E	3 x 220-240 V D	DOL	Bi-metal	Semi-open	96884079
DPK.10.50.15.5.0D	3 x 380-415 V Y	DOL	Bi-metal	Semi-open	96884080
DPK.10.50.15.5.0E	3 x 220-240 V D	DOL	Bi-metal	Semi-open	96884081
DPK.10.80.22.5.0D	3 x 380-415 V Y	DOL	Bi-metal	Semi-open	96884112
DPK.10.80.22.5.0E	3 x 220-240 V D	DOL	Bi-metal	Semi-open	96884113
DPK.15.80.37.5.0D	3 x 380-415 V Y	DOL	Bi-metal	Semi-open	96884114
DPK.15.80.37.5.0E	3 x 220-240 V D	DOL	Bi-metal	Semi-open	96884115
DPK.15.80.55.5.0D	3 x 380-415 V Y	DOL	Bi-metal	Semi-open	96884086
DPK.15.80.55.5.0E	3 x 220-240 V D	DOL	Bi-metal	Semi-open	96884087
DPK.15.80.55.5.1D	3 x 380-415 V Y	Y/D	Bi-metal	Semi-open	96926030
DPK.15.80.55.5.1E	3 x 220-240 V D	Y/D	Bi-metal	Semi-open	96926031
DPK.15.100.75.5.0D	3 x 380-415 V Y	DOL	Bi-metal	Semi-open	96884088
DPK.15.100.75.5.0E	3 x 220-240 V D	DOL	Bi-metal	Semi-open	96884089
DPK.15.100.75.5.1D	3 x 380-415 V Y	Y/D	Bi-metal	Semi-open	96926032
DPK.15.100.75.5.1E	3 x 220-240 V D	Y/D	Bi-metal	Semi-open	96926033
DPK.20.100.110.5.0D	3 x 380-415 V Y	DOL	Bi-metal	Semi-open	96884090
DPK.20.100.110.5.0E	3 x 220-240 V D	DOL	Bi-metal	Semi-open	96884091
DPK.20.100.110.5.1D	3 x 380-415 V Y	Y/D	Bi-metal	Semi-open	96926034
DPK.20.100.110.5.1E	3 x 220-240 V D	Y/D	Bi-metal	Semi-open	96926035
DPK.20.100.150.5.0D	3 x 380-415 V Y	DOL	Bi-metal	Semi-open	96884092
DPK.20.100.150.5.0E	3 x 220-240 V D	DOL	Bi-metal	Semi-open	96884116
DPK.20.100.150.5.1D	3 x 380-415 V Y	Y/D	Bi-metal	Semi-open	96926036
DPK.20.100.150.5.1E	3 x 220-240 V D	Y/D	Bi-metal	Semi-open	96926037
DPK.20.150.190.5.1D	3 x 380-415 V Y	Y/D	Bi-metal	Semi-open	96884093
DPK.20.150.190.5.1E	3 x 220-240 V D	Y/D	Bi-metal	Semi-open	96884117
DPK.20.150.220.5.1D	3 x 380-415 V Y	Y/D	Bi-metal	Semi-open	96884094
DPK.20.150.220.5.1E	3 x 220-240 V D	Y/D	Bi-metal	Semi-open	96884118

Variants

List of variants

Motor	
Deviating cable length - 15 m/25 m/30 m	Contact Grundfos
Special motor	Insulation class H
	Special voltage
Motor protection	Seal sensor
	Sensor set 1 - 1 x Pt100 lower bearing and 1 x Pt100 in winding
Material	Impeller material - Stainless steel
	Pump casing - Stainless steel
Discharge	Flanges: DIN, JIS, ANSI
	Hose: Storz (DWK)
Tests	
Test at specified duty on standard impeller curve	
Additional test of entire QH curve	
Different test standard	Contact Grundfos
Witness test	
Other variants	Contact Grundfos

Discharge connections

DWK pumps can be ordered with three different discharge connections:

- flange connection
- hose connection
- without connection.

DPK pumps are only available with flange connection.

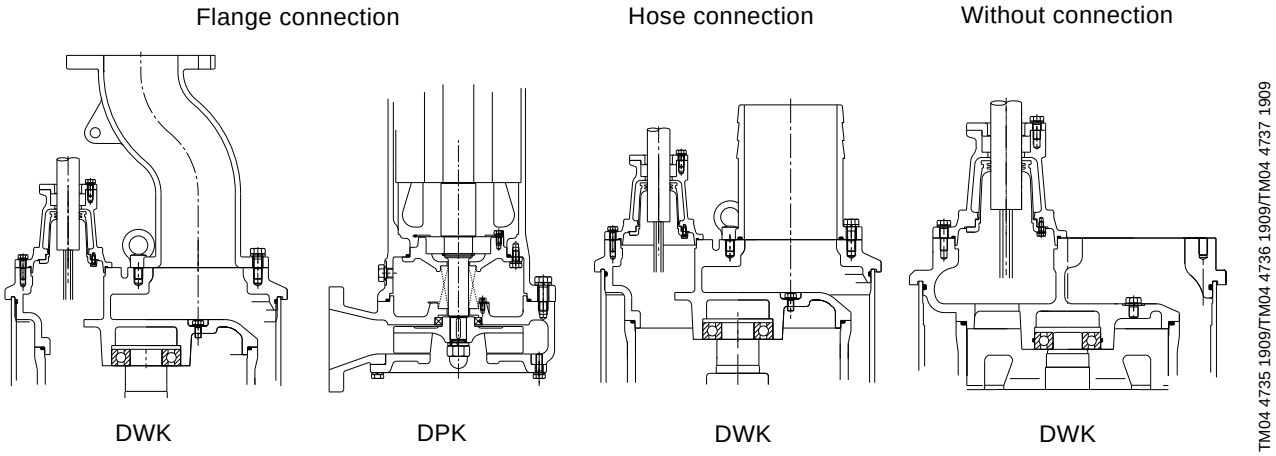

Fig. 5 Discharge connections

Exploded views and sectional drawings

In the following pages we have chosen not to show the exploded views and sectional drawings with all three discharge connection variants.

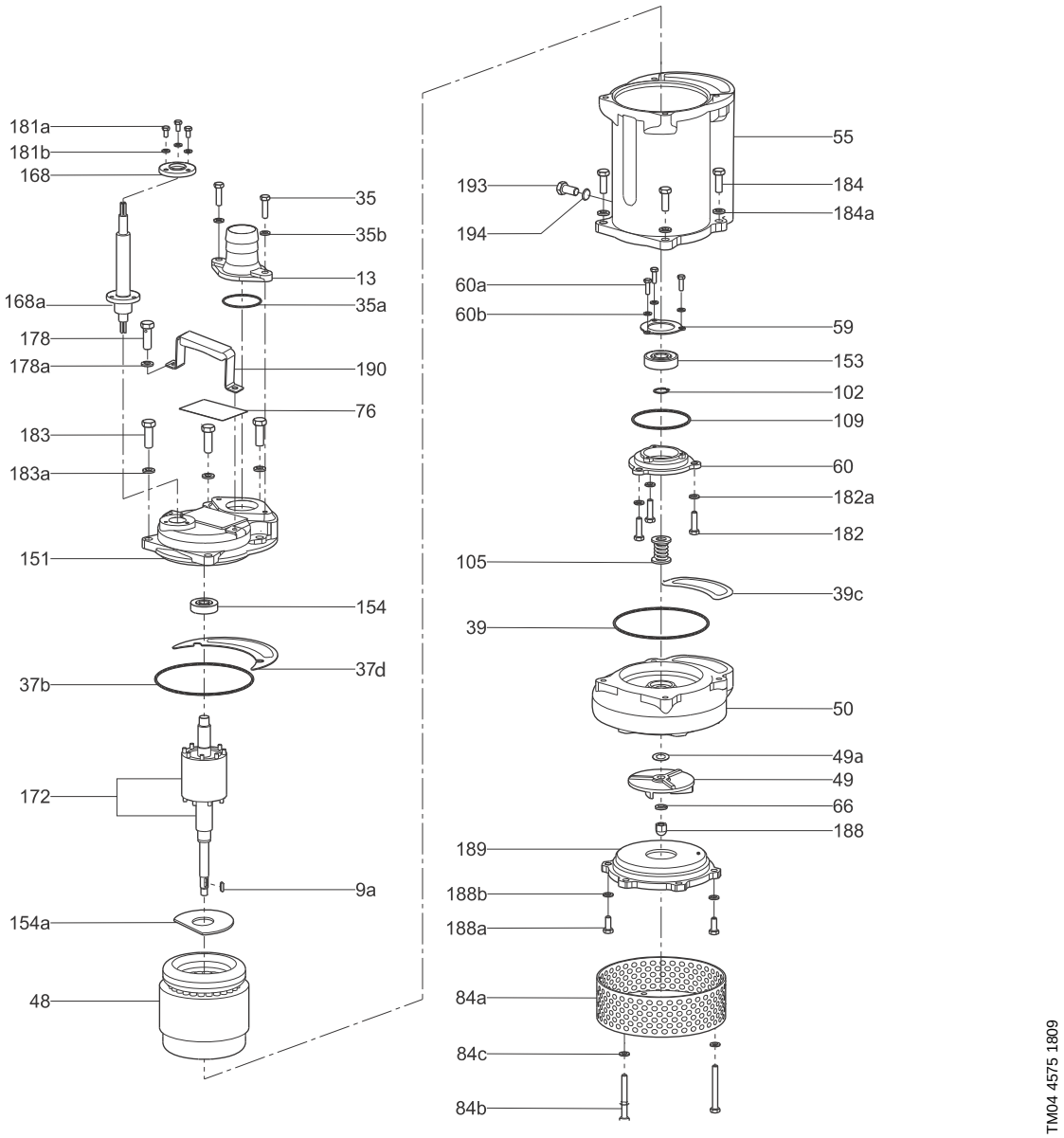

Fig. 6 Exploded view DWK.O.6.50.075, DWK.O.6.50.15 and DWK.O.6.50.22

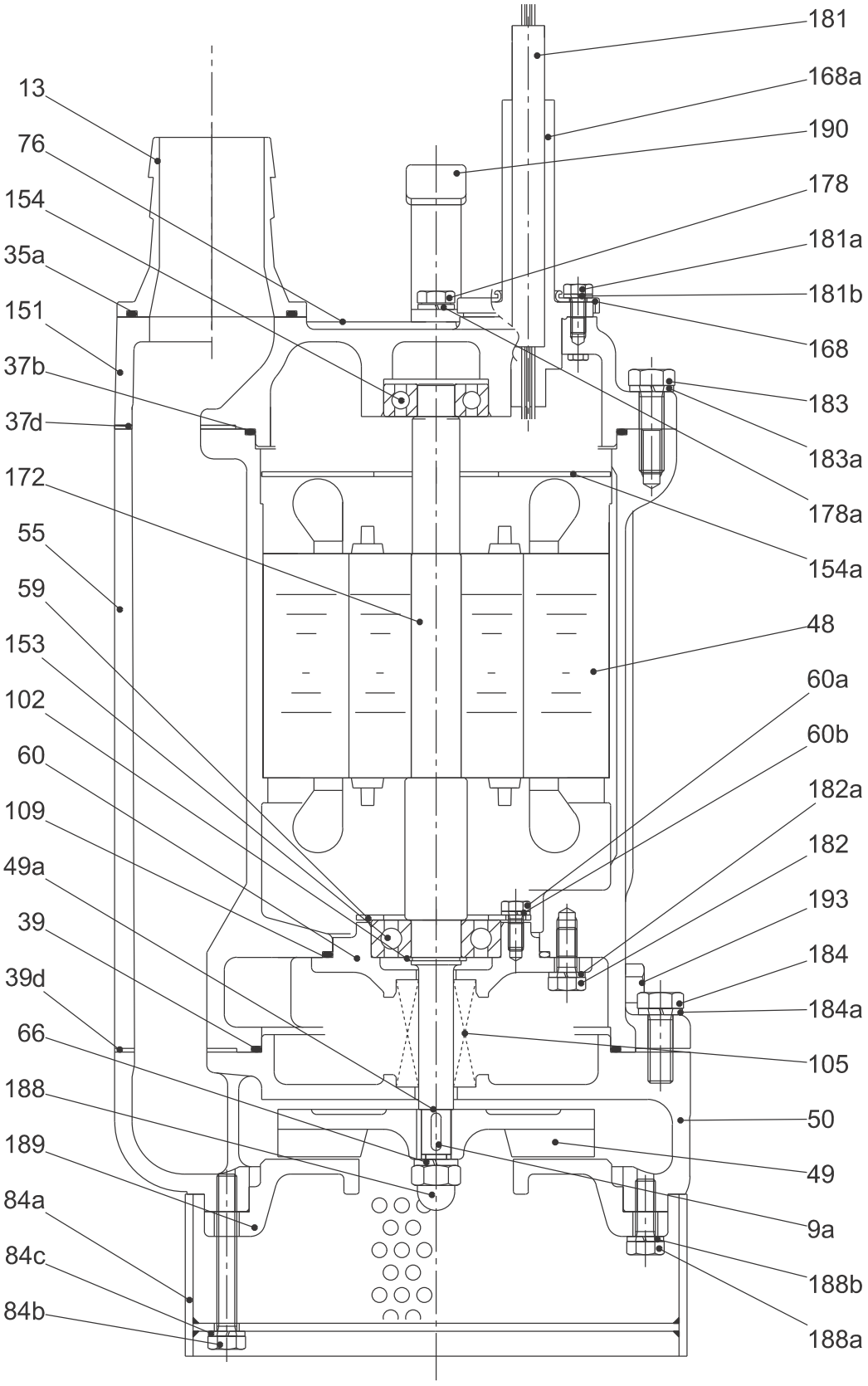

Fig. 7 Sectional drawing DWK.O.6.50.075, DWK.O.6.50.15 and DWK.O.6.50.22

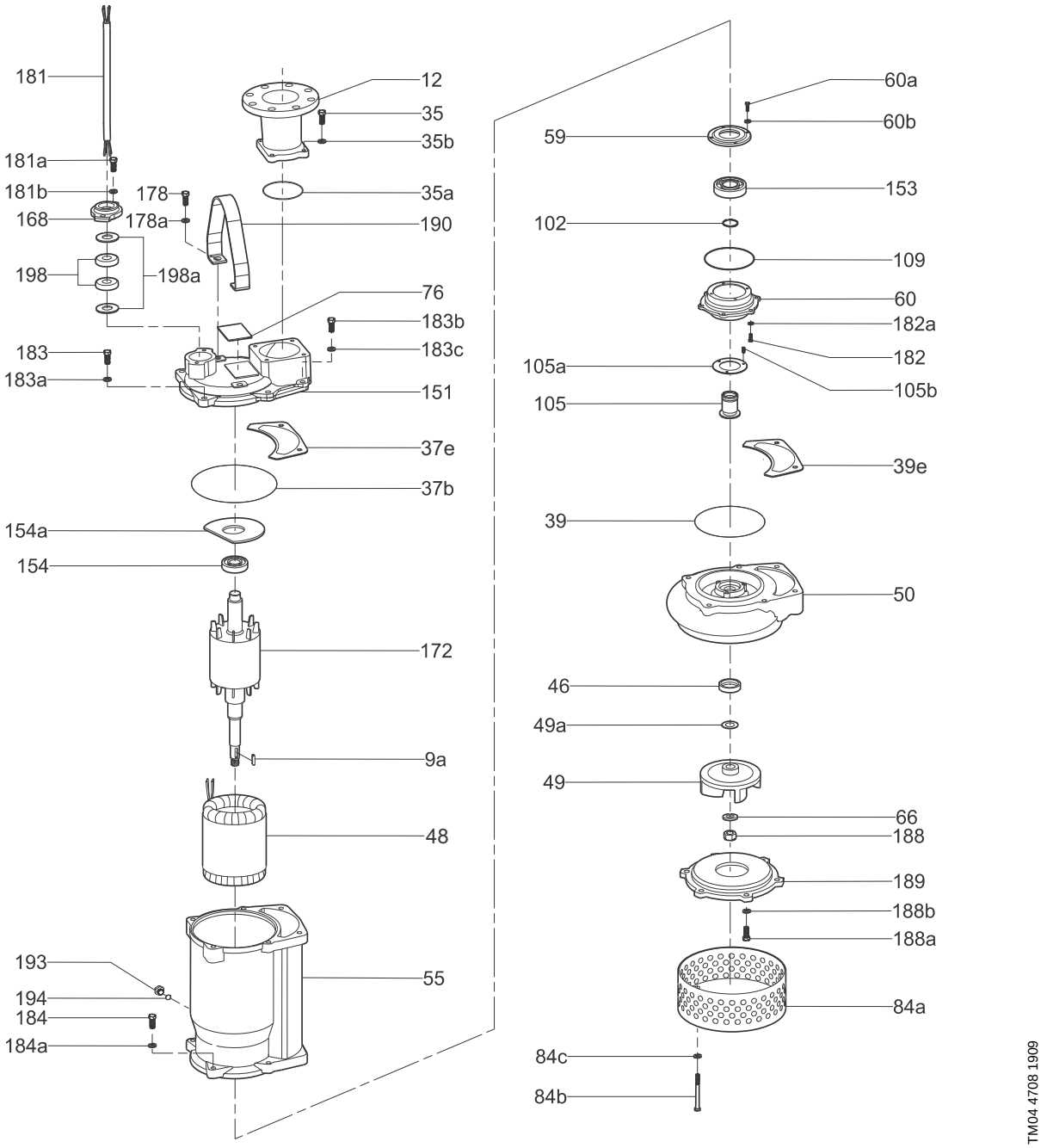

Fig. 8 Exploded view DWK.O.6.80.15, DWK.O.6.80.22, DWK.O.10.80.37 and DWK.O.10.100.37

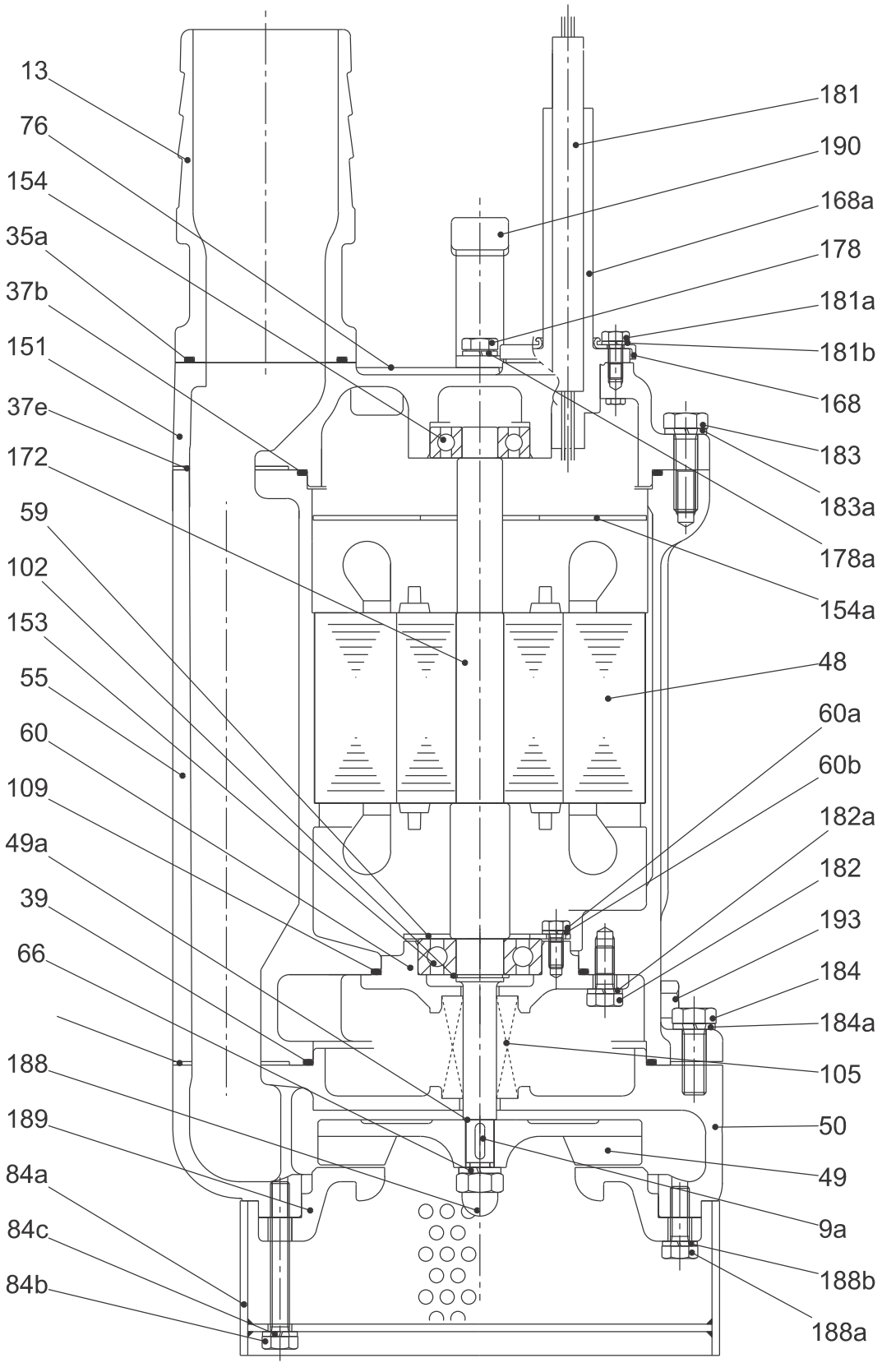

Fig. 9 Exploded view DWK.O.6.80.15, DWK.O.6.80.22

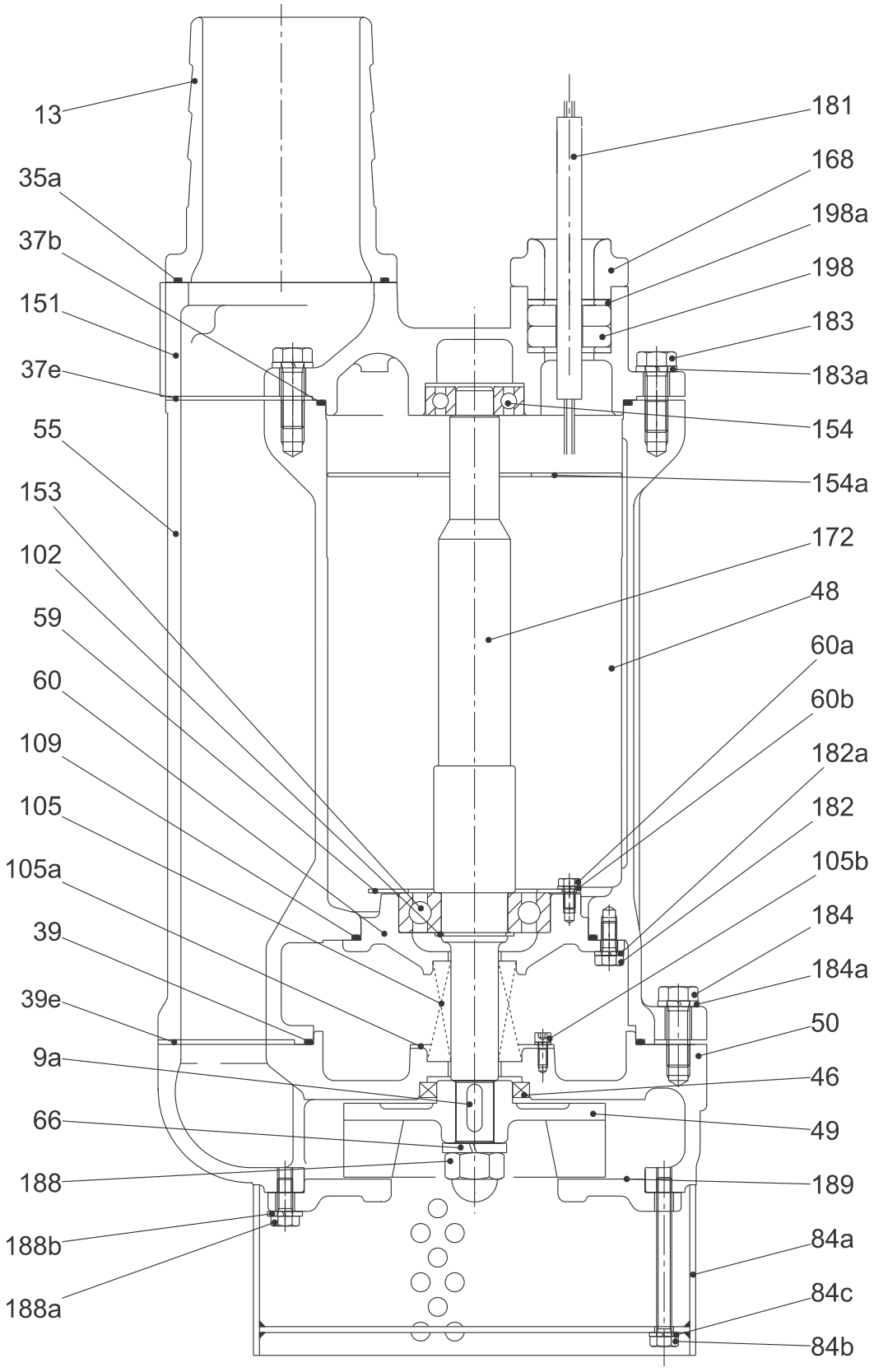

Fig. 10 Sectional drawing DWK.O.10.80.37 and DWK.O.10.100.37

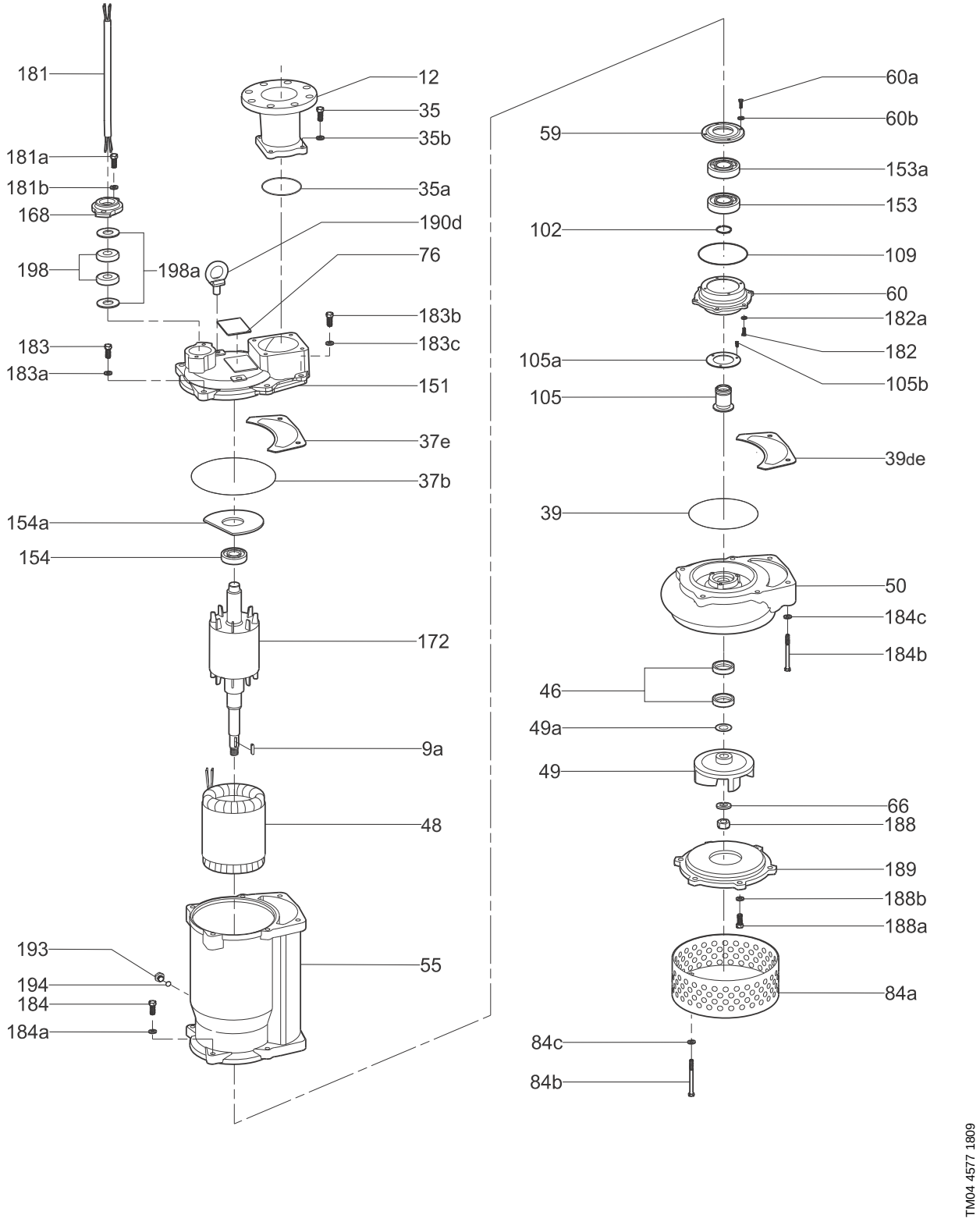

Fig. 11 Exploded view DWK.O.13.80.55, DWK.O.13.100.55, DWK.O.13.100.75, DWK.O.13.100.110, DWK.O.13.100.150 and DWK.O.13.150.150

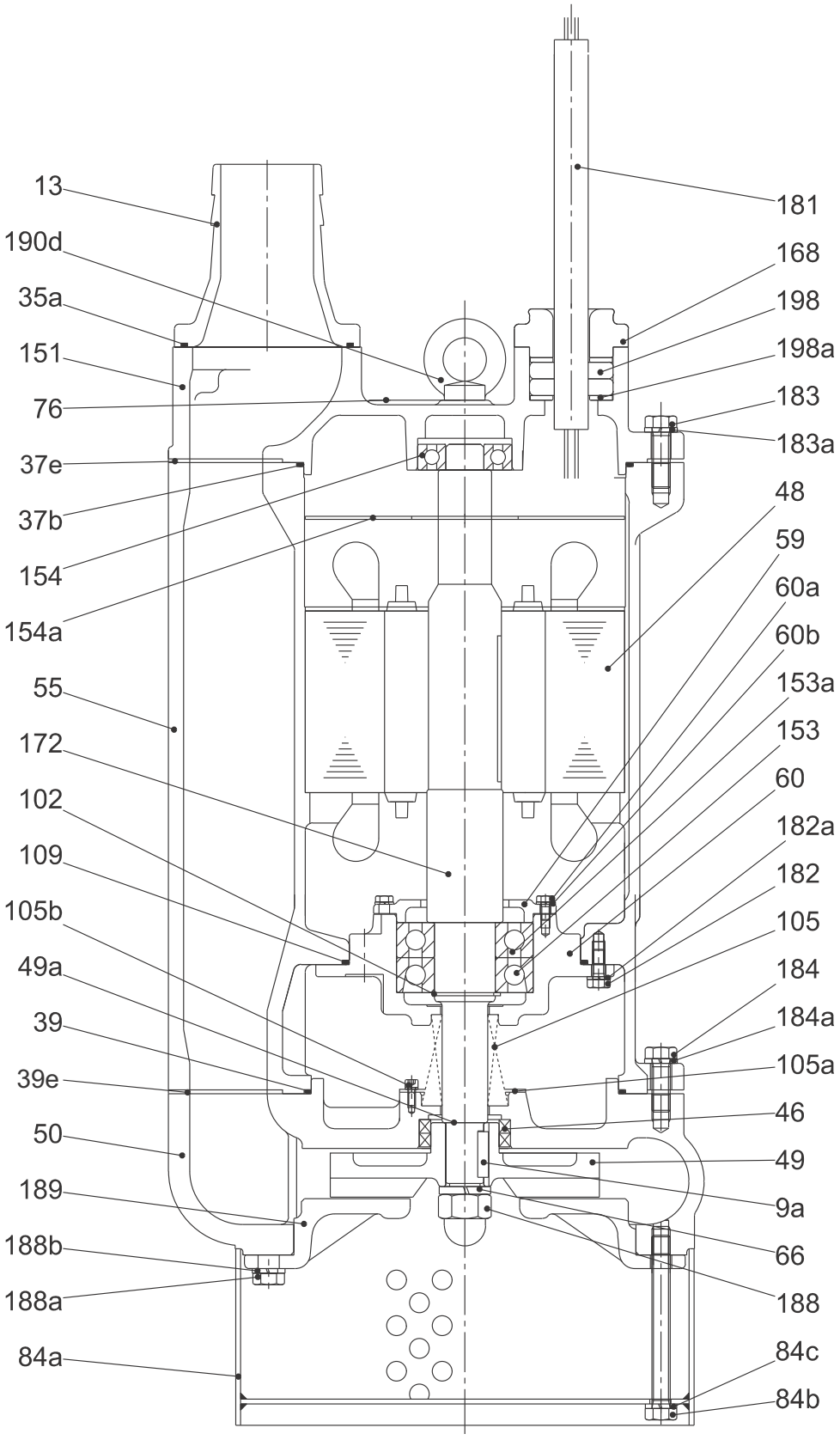

Fig. 12 Sectional drawing DWK.O.13.80.55 and DWK.O.13.100.55

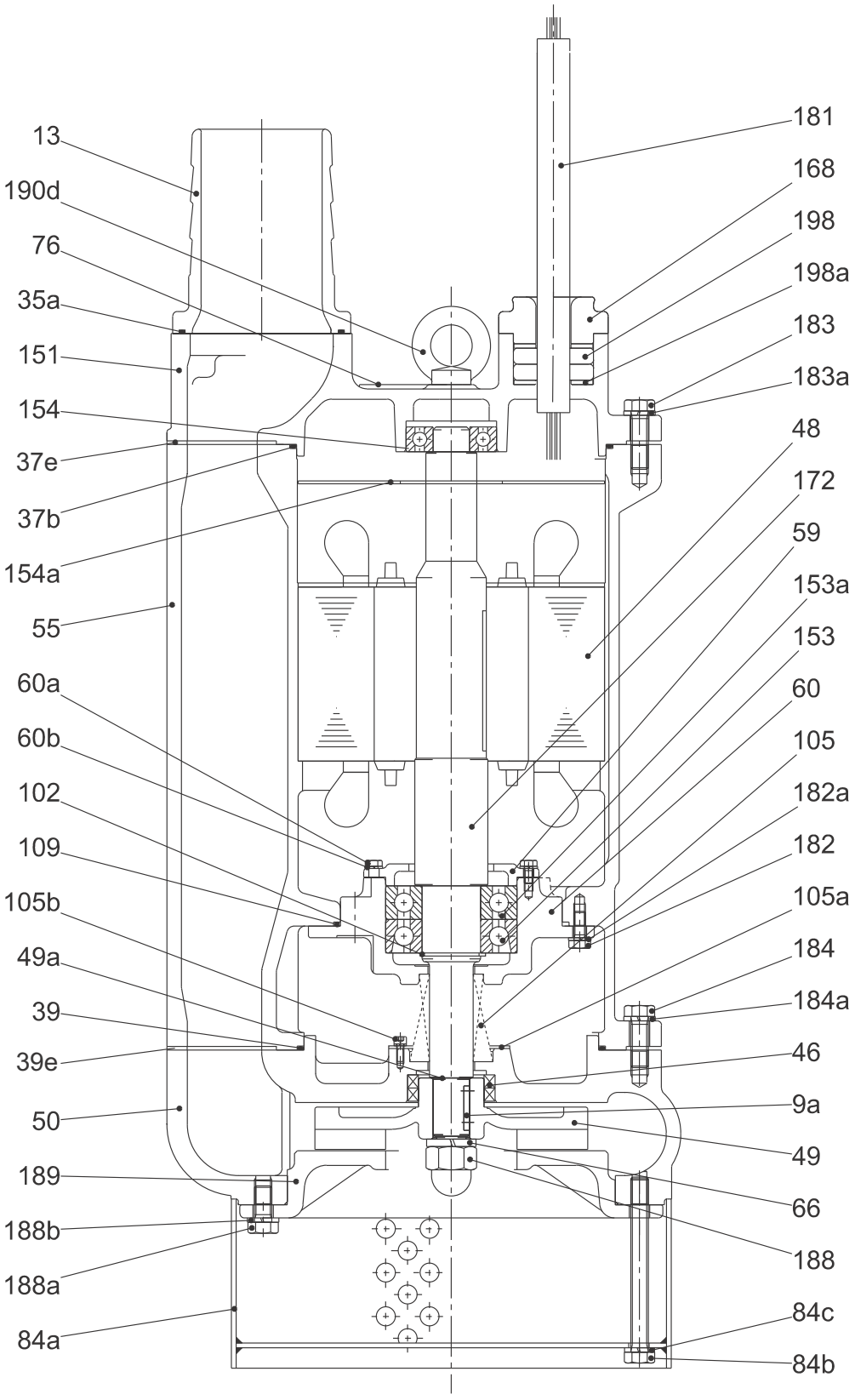

Fig. 13 Sectional drawing DWK.O.13.100.75

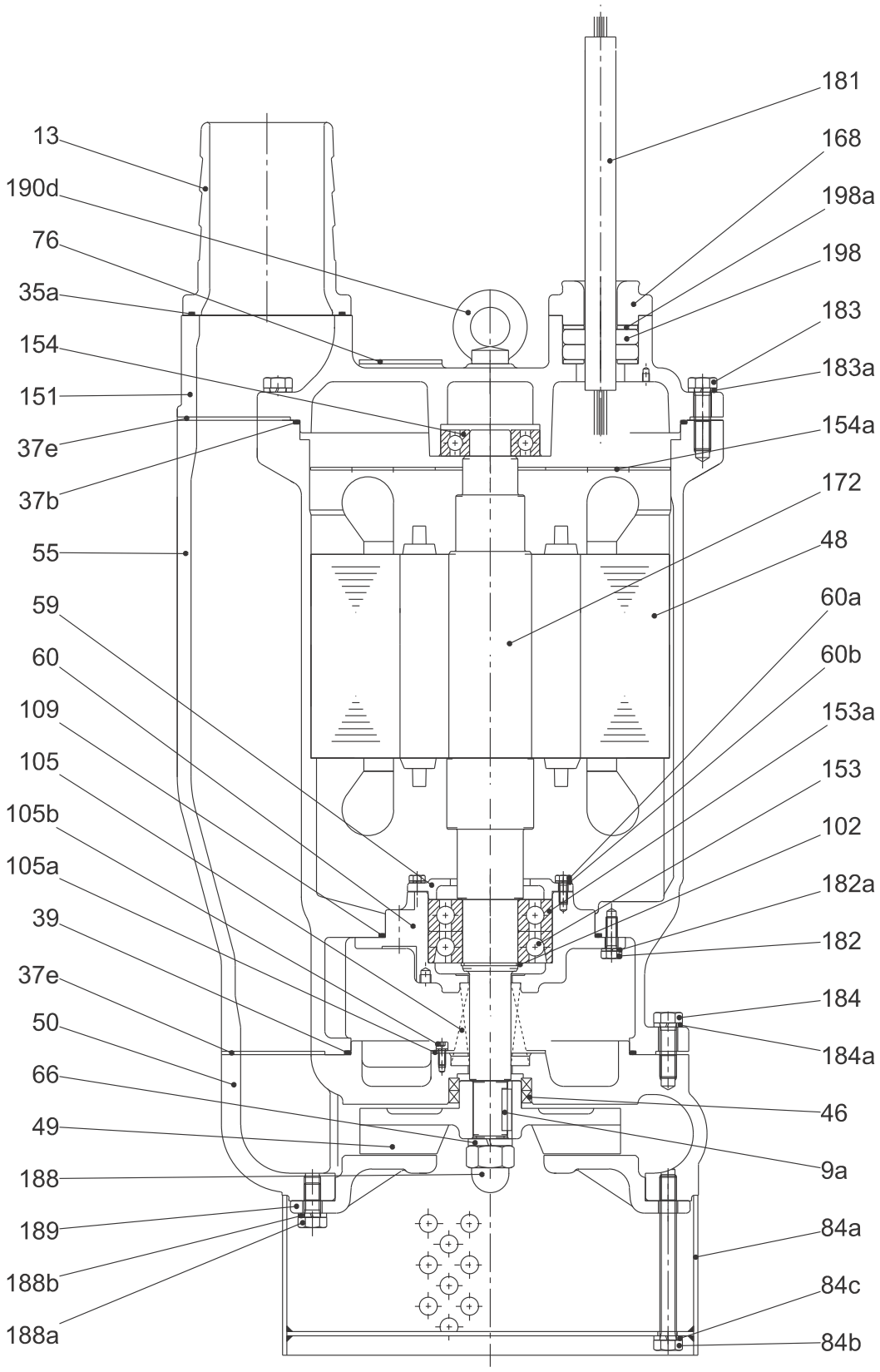

Fig. 14 Exploded view DWK.O.13.100.110 and DWK.O.13.100.150

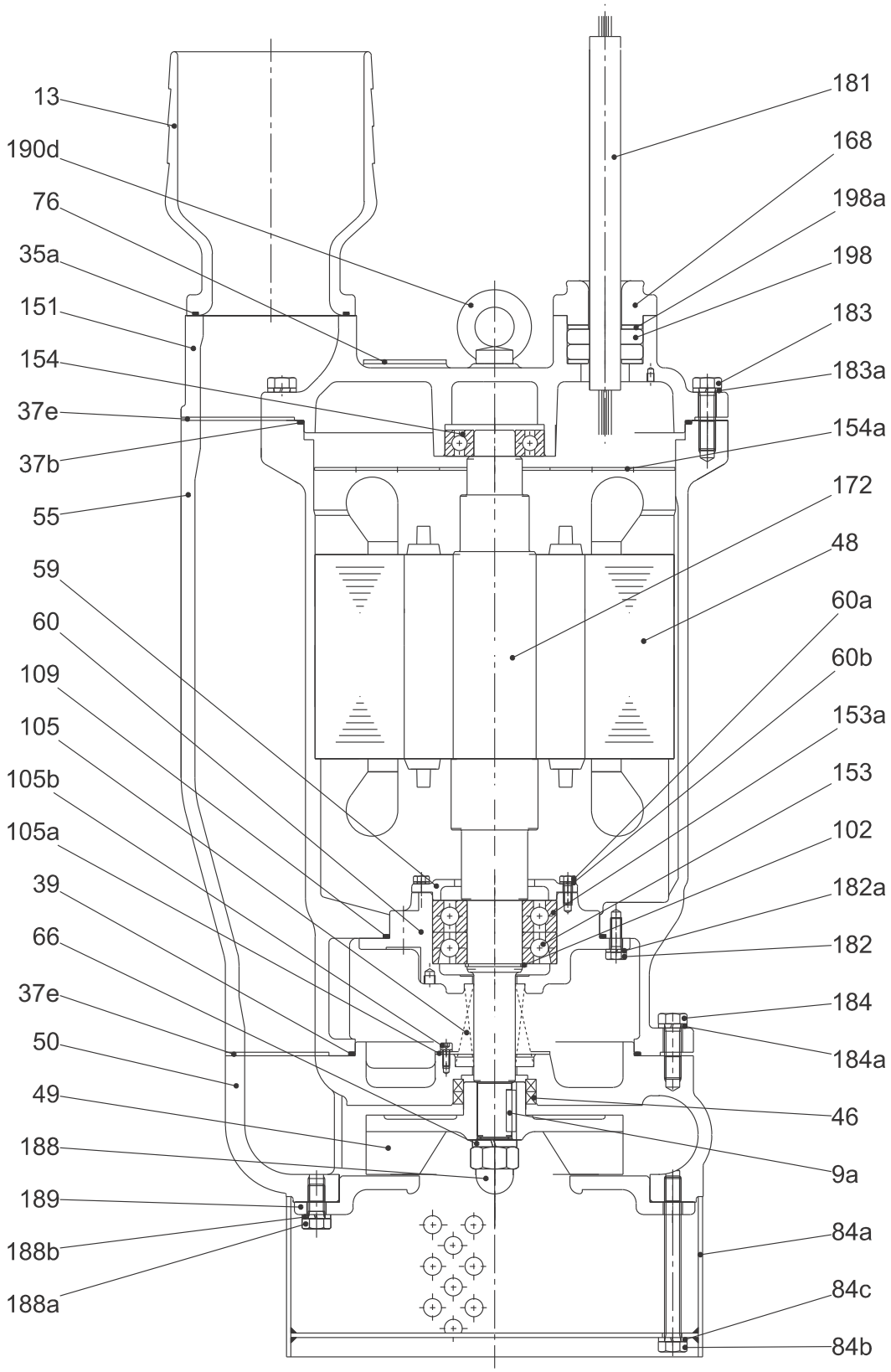

Fig. 15 Sectional drawing DWK.O.13.100.150

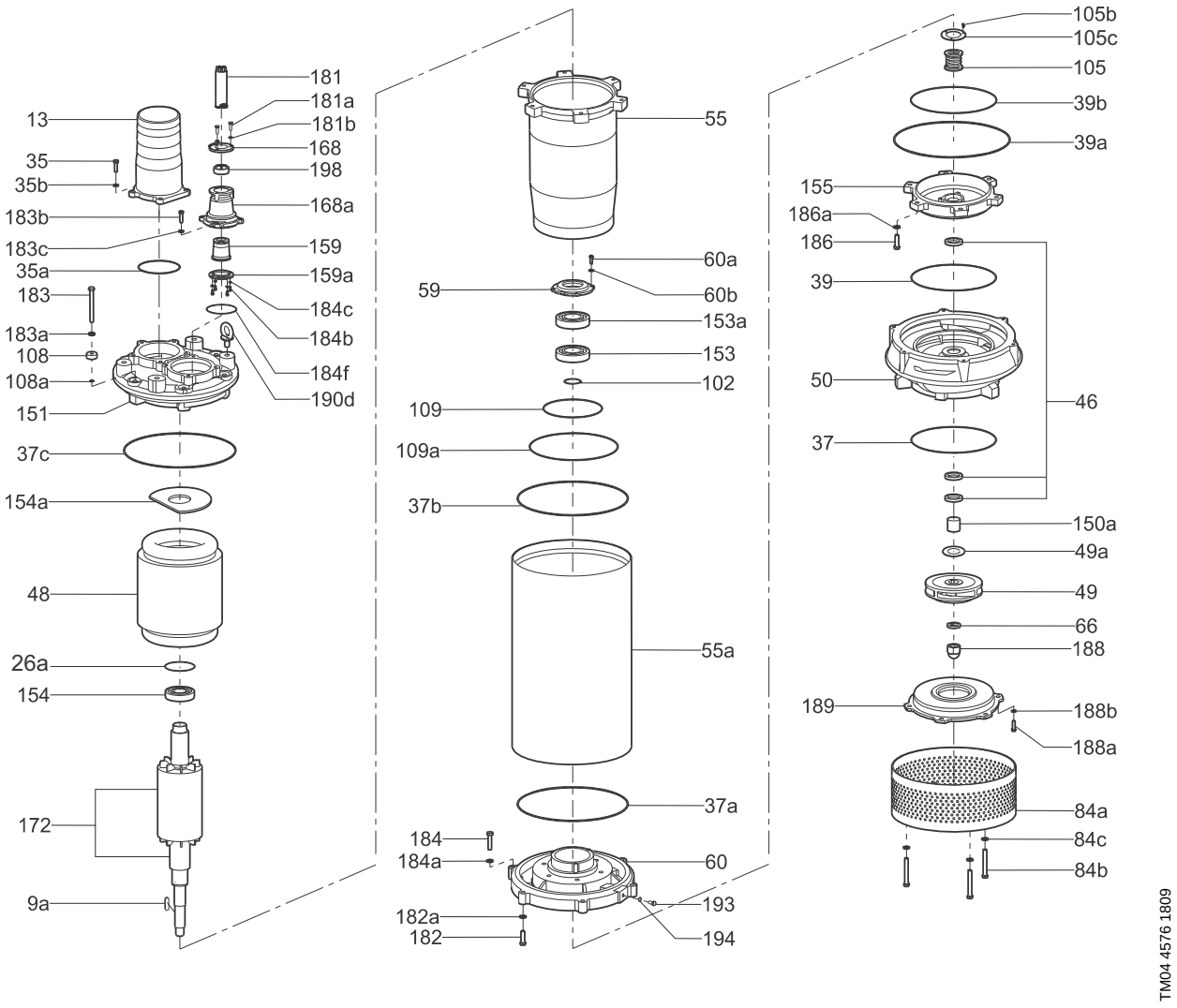

Fig. 16 Exploded view DWK.E.10.100.220 and DWK.E.10.150.220

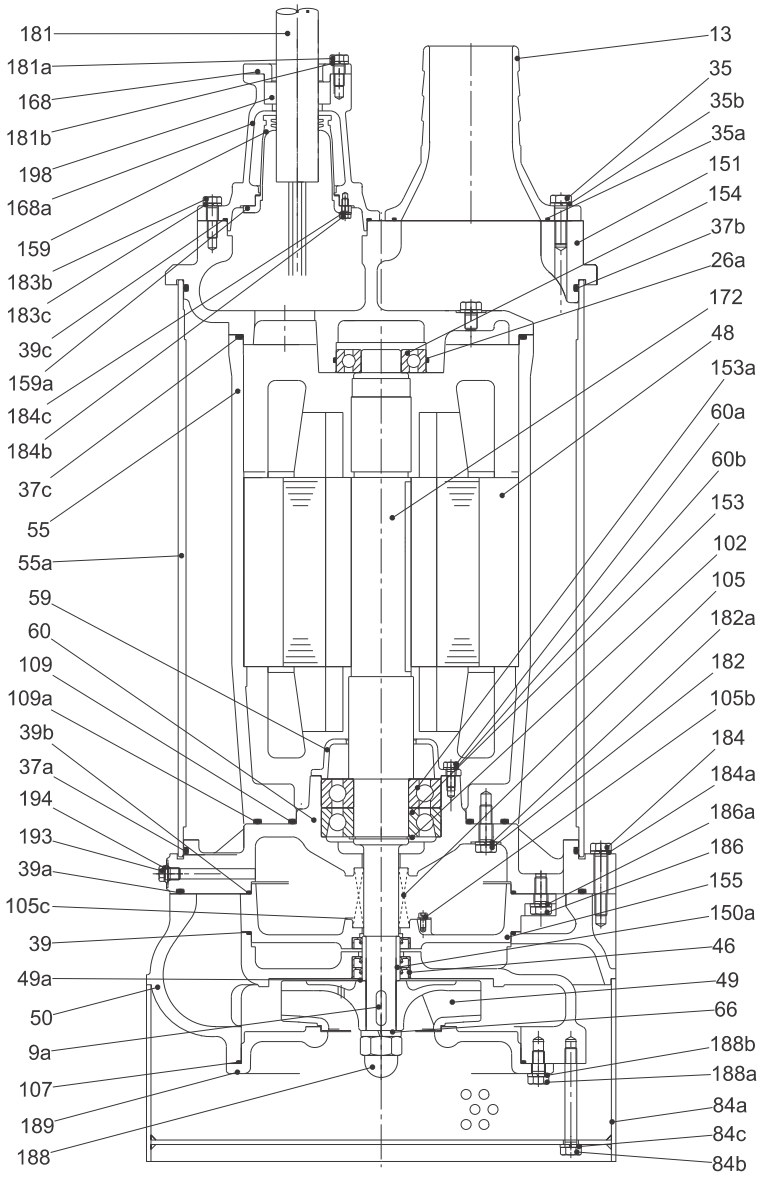

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Fig. 17 Sectional drawing DWK.E.10.100.220

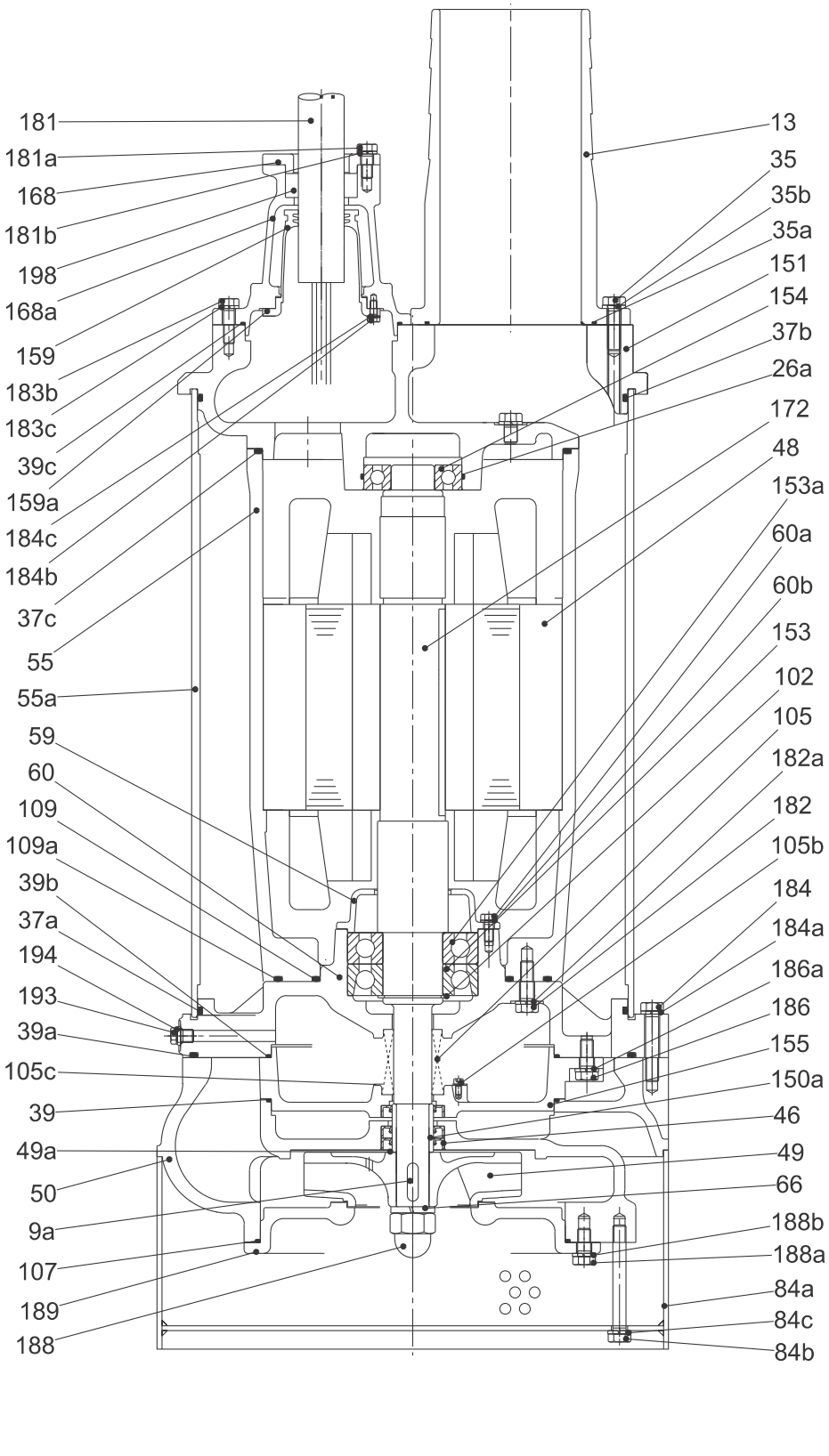

Fig. 18 Sectional drawing DWK.E.10.150.220

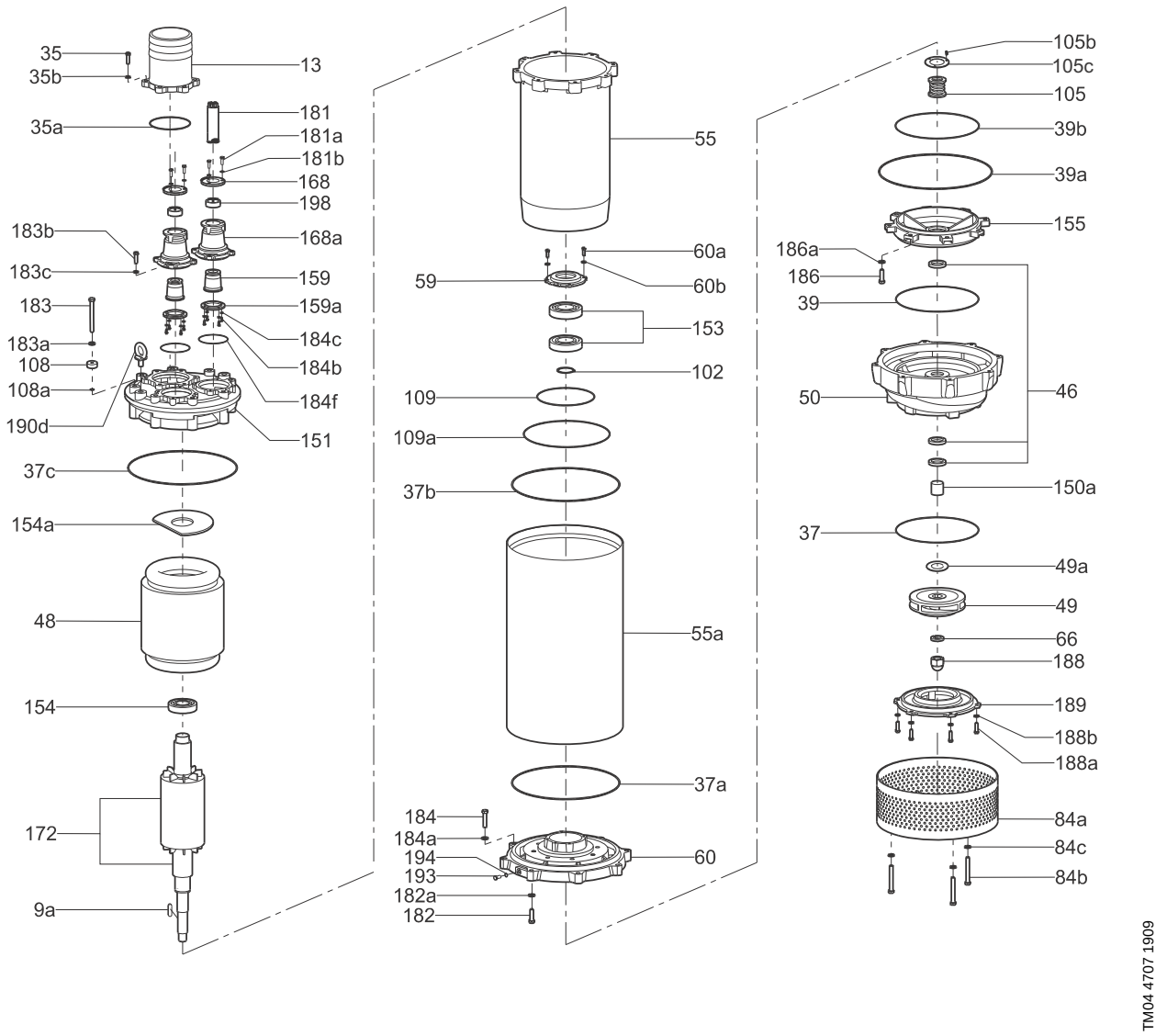

Fig. 19 Exploded drawing DWK.E.10.150.300, DWK.E.10.200.300, DWK.E.10.150.370, DWK.E.10.150.450, DWK.E.10.200.370 and DWK.E.10.200.450

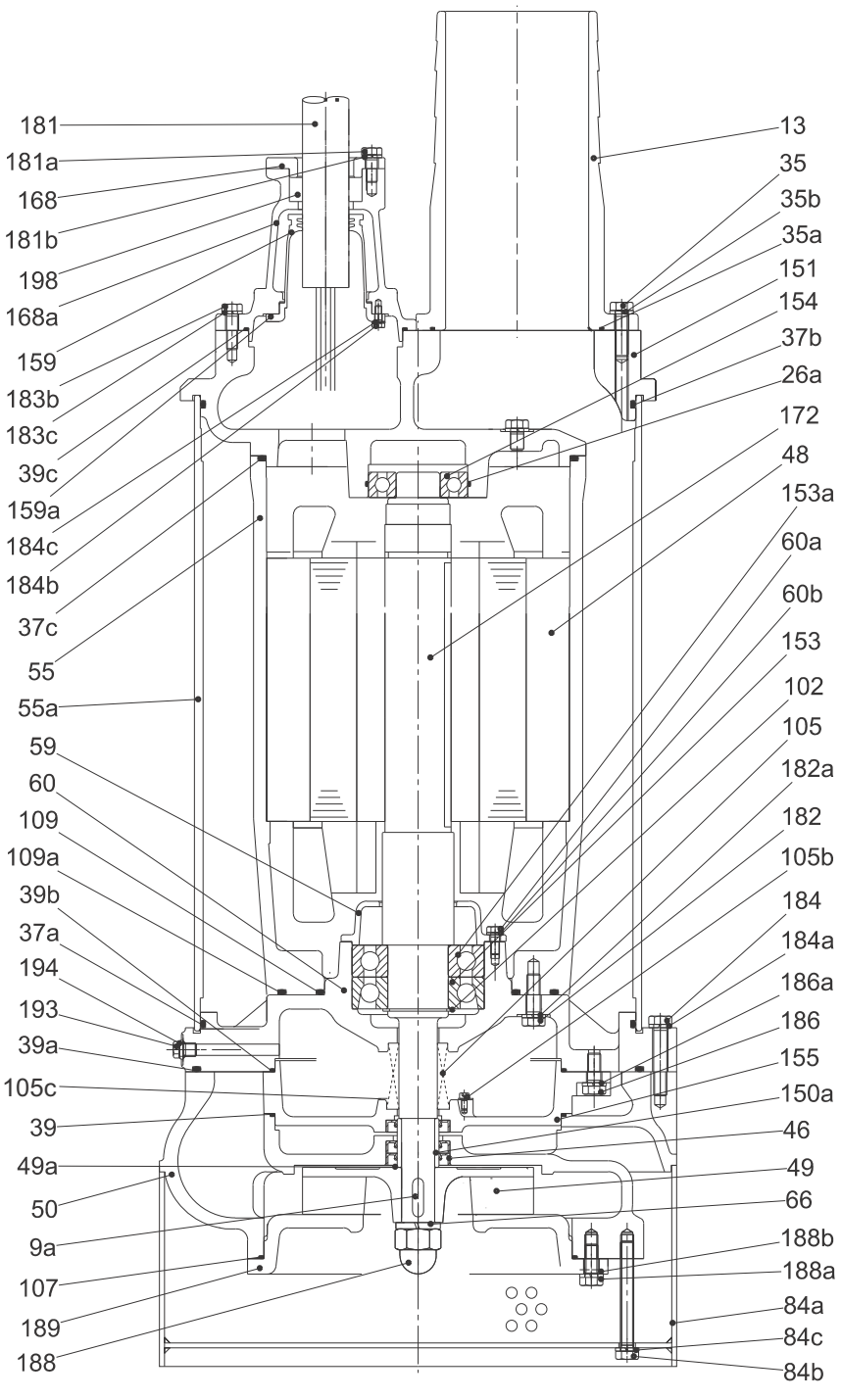

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Fig. 20 Sectional drawing DWK.E.10.150.300 and DWK.E.10.200.300

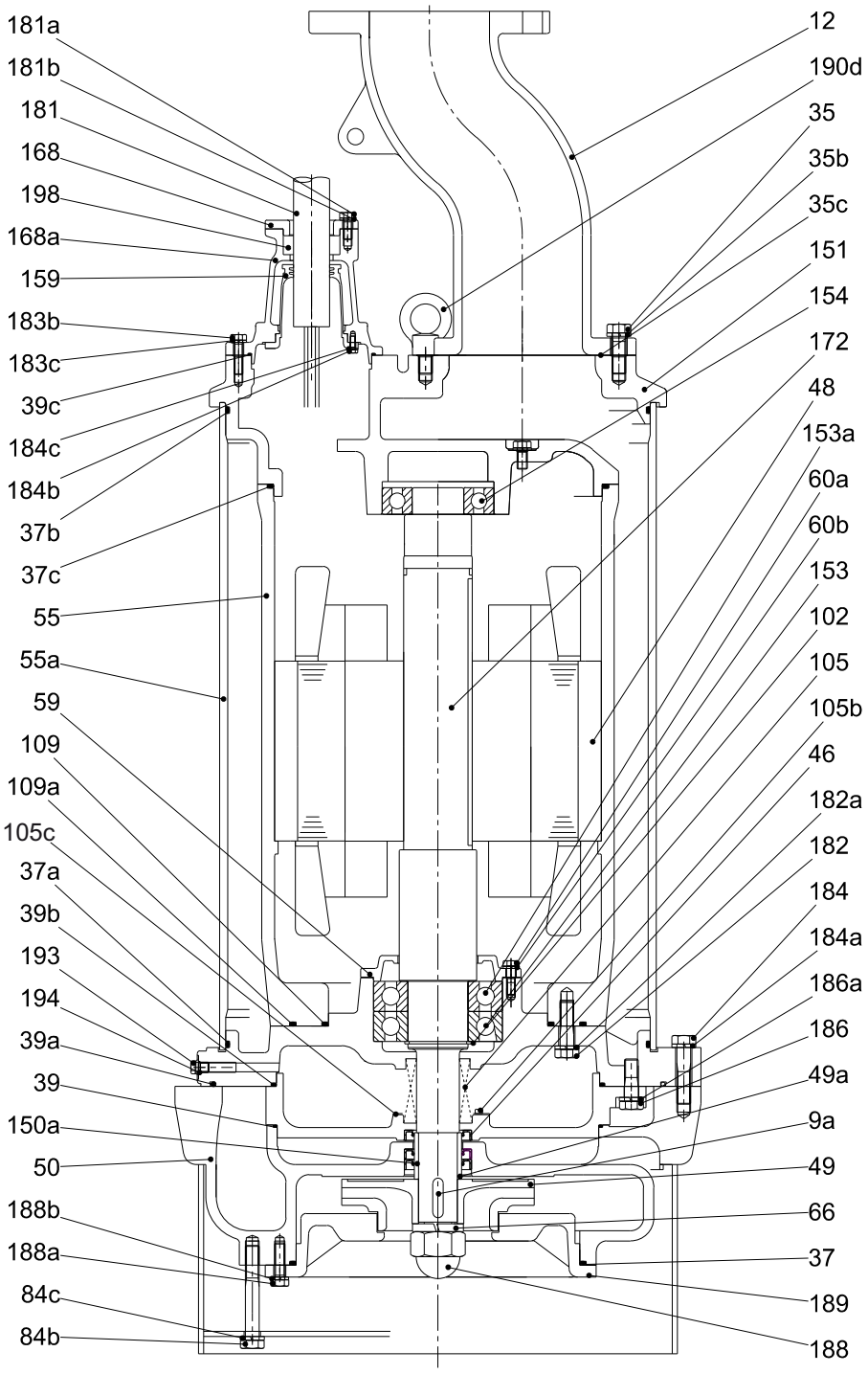


Fig. 21 Sectional drawing DWK.E.10.150.370, DWK.E.10.150.450, DWK.E.10.200.370 and DWK.E.10.200.450

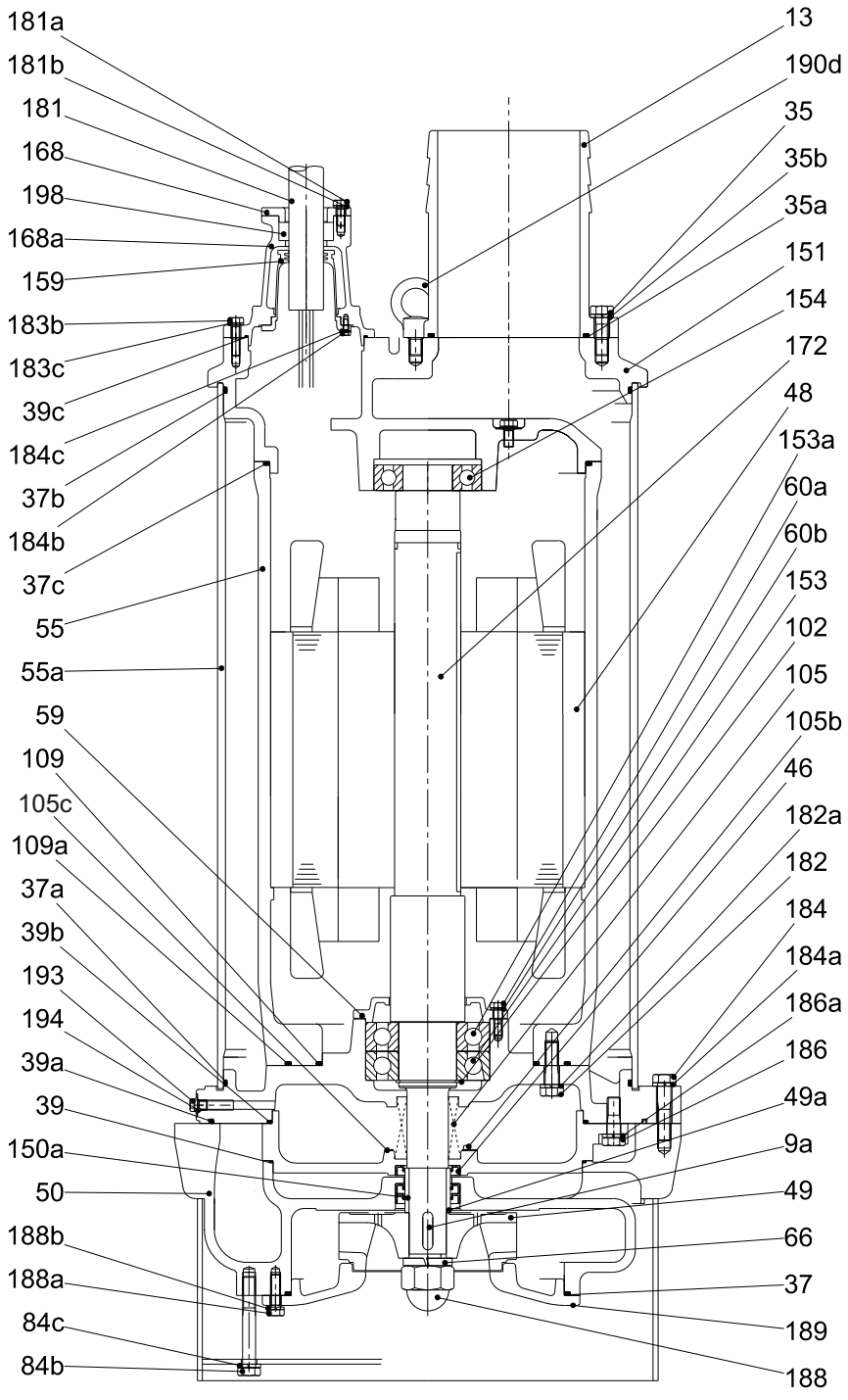


Fig. 22 Sectional drawing DWK.E.10.150.550, DWK.E.10.200.550, DWK.E.10.200.750 and DWK.E.10.200.900

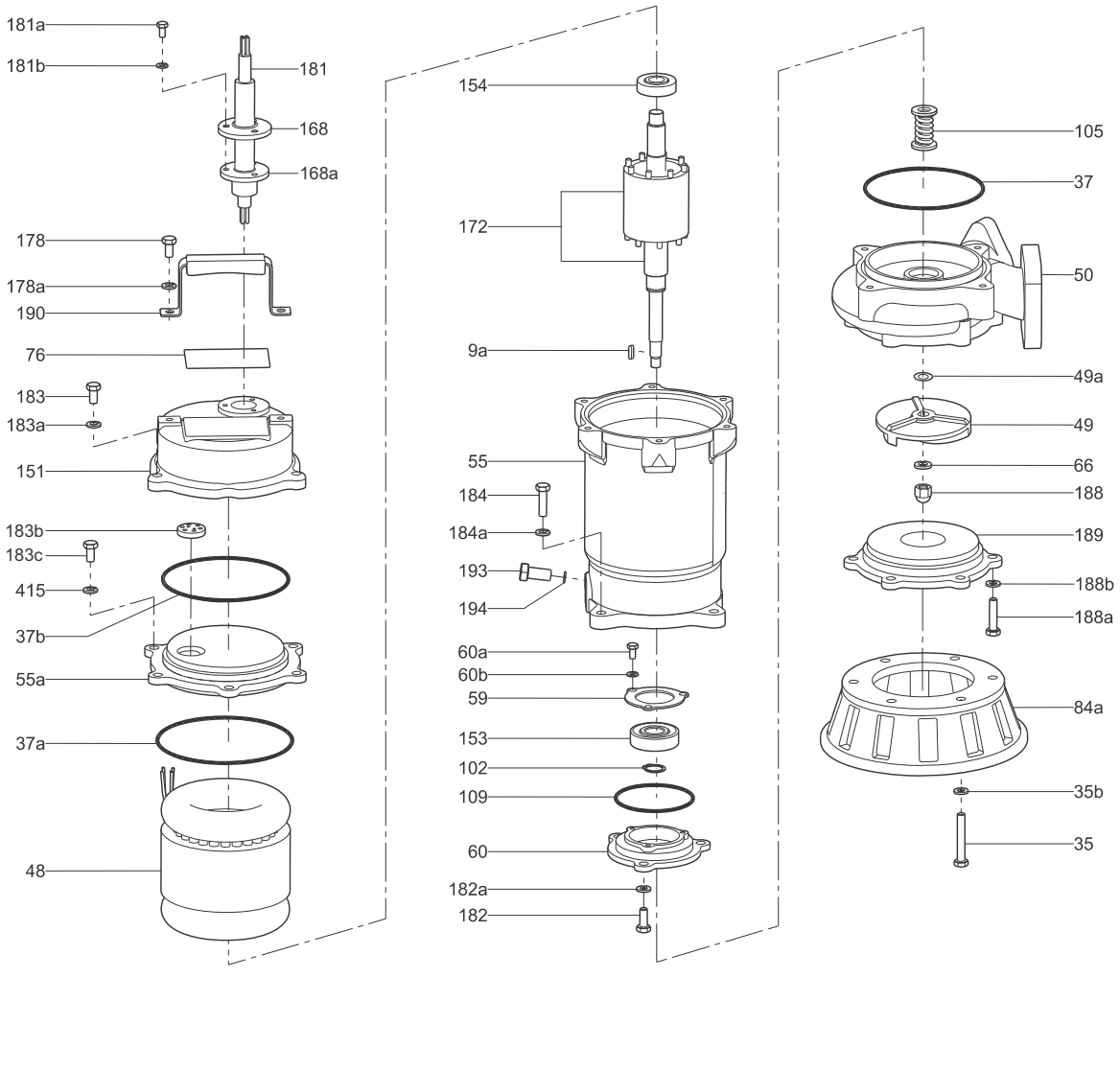


Fig. 23 Exploded view DPK.10.50.075, DPK.10.50.15 and DPK.10.80.22

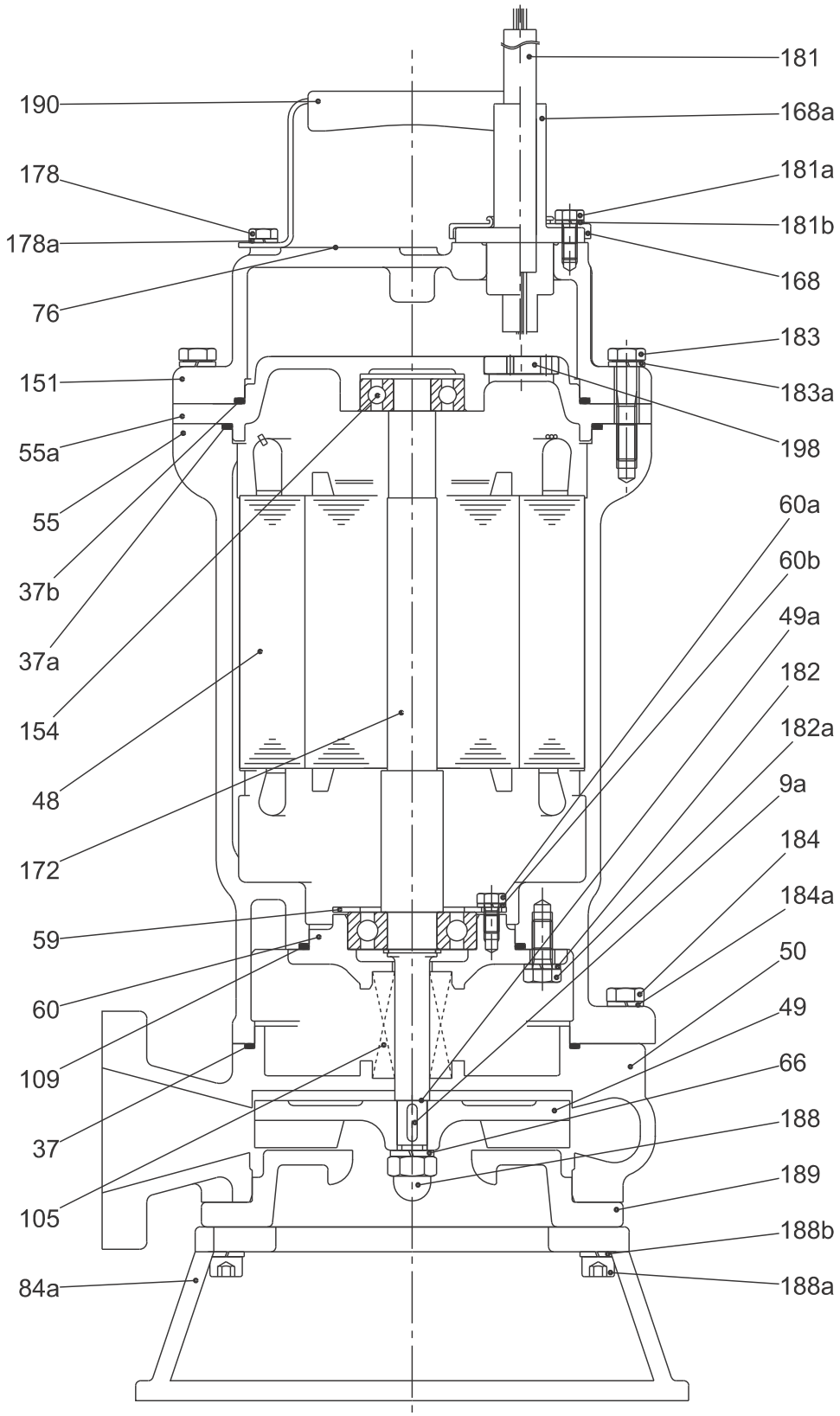


Fig. 24 Sectional drawing DPK.10.50.075 and DPK.10.50.15

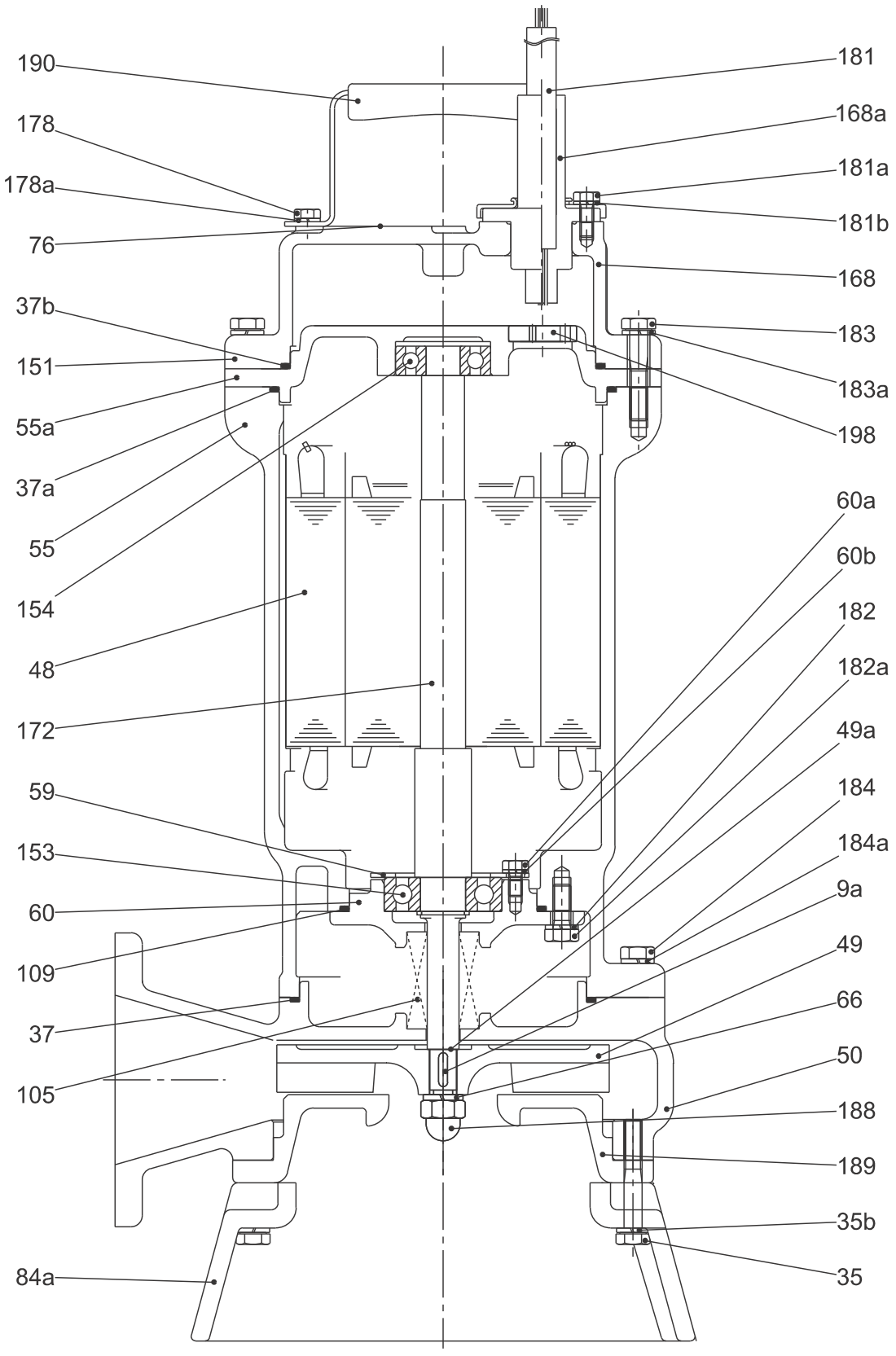


Fig. 25 Sectional drawing DPK.10.80.22

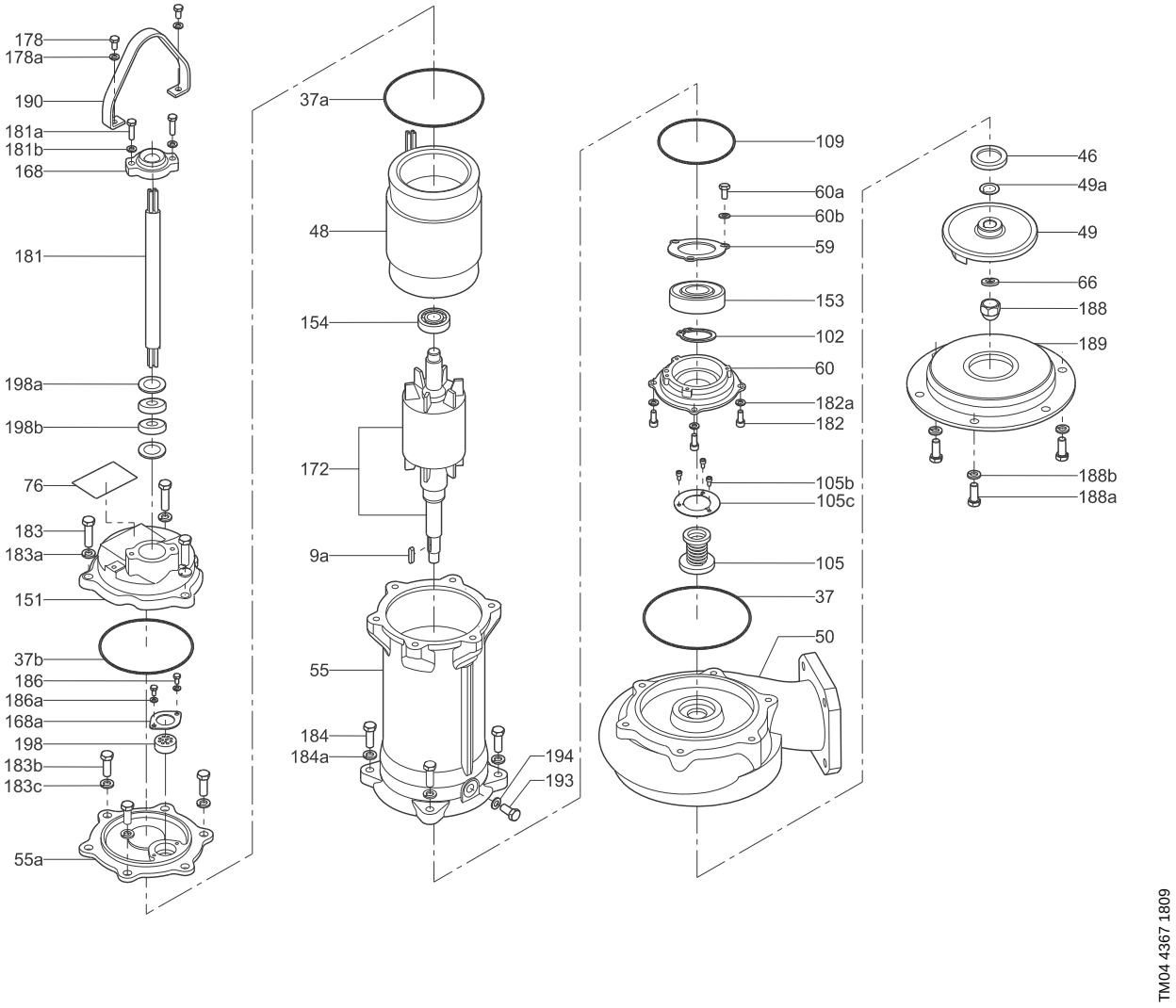


Fig. 26 Exploded view DPK.15.80.37, DPK.15.100.55, DPK.15.100.75, DPK.20.100.110 and DPK.20.100.150

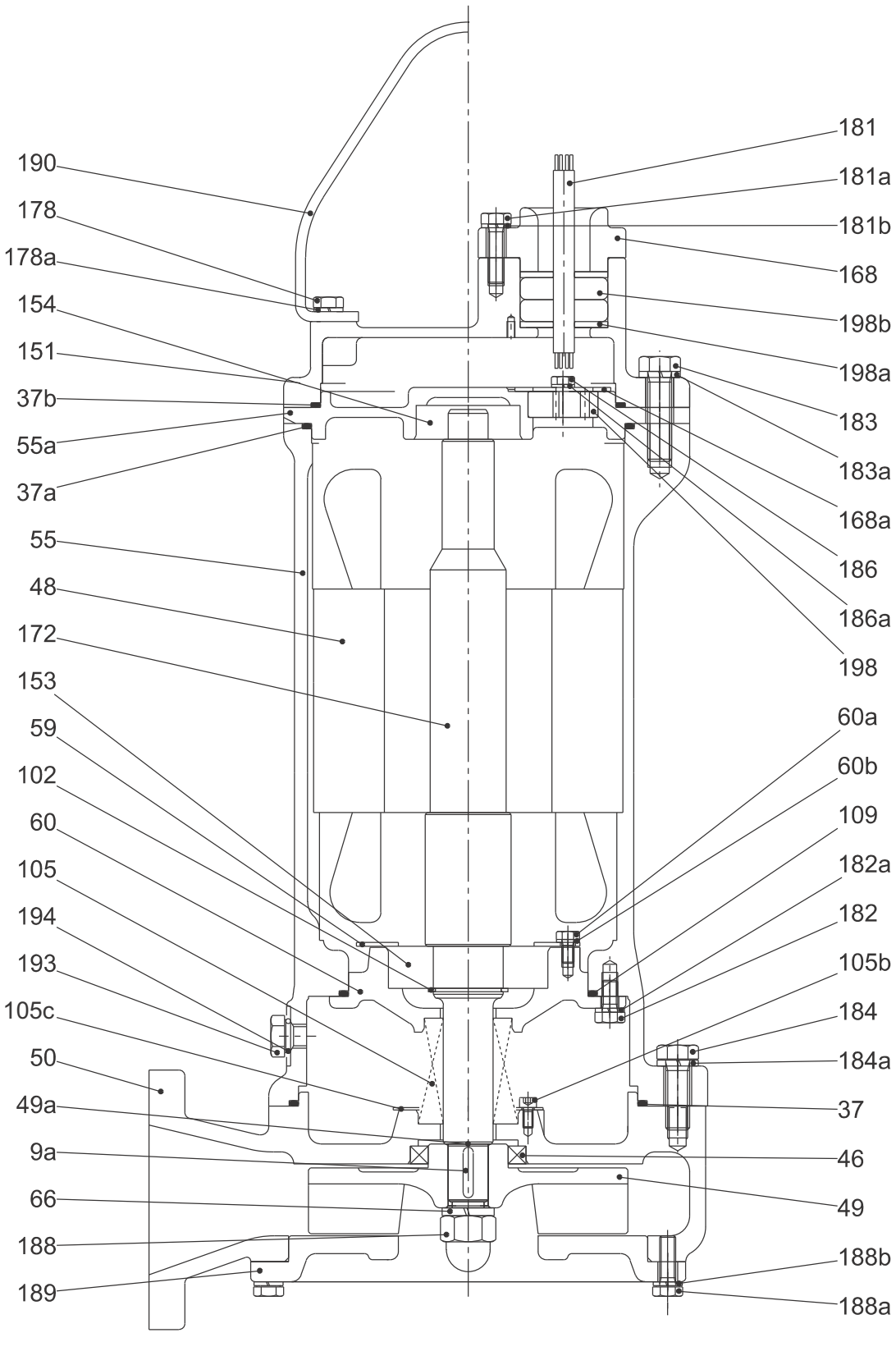


Fig. 27 Sectional drawing DPK.10.80.37

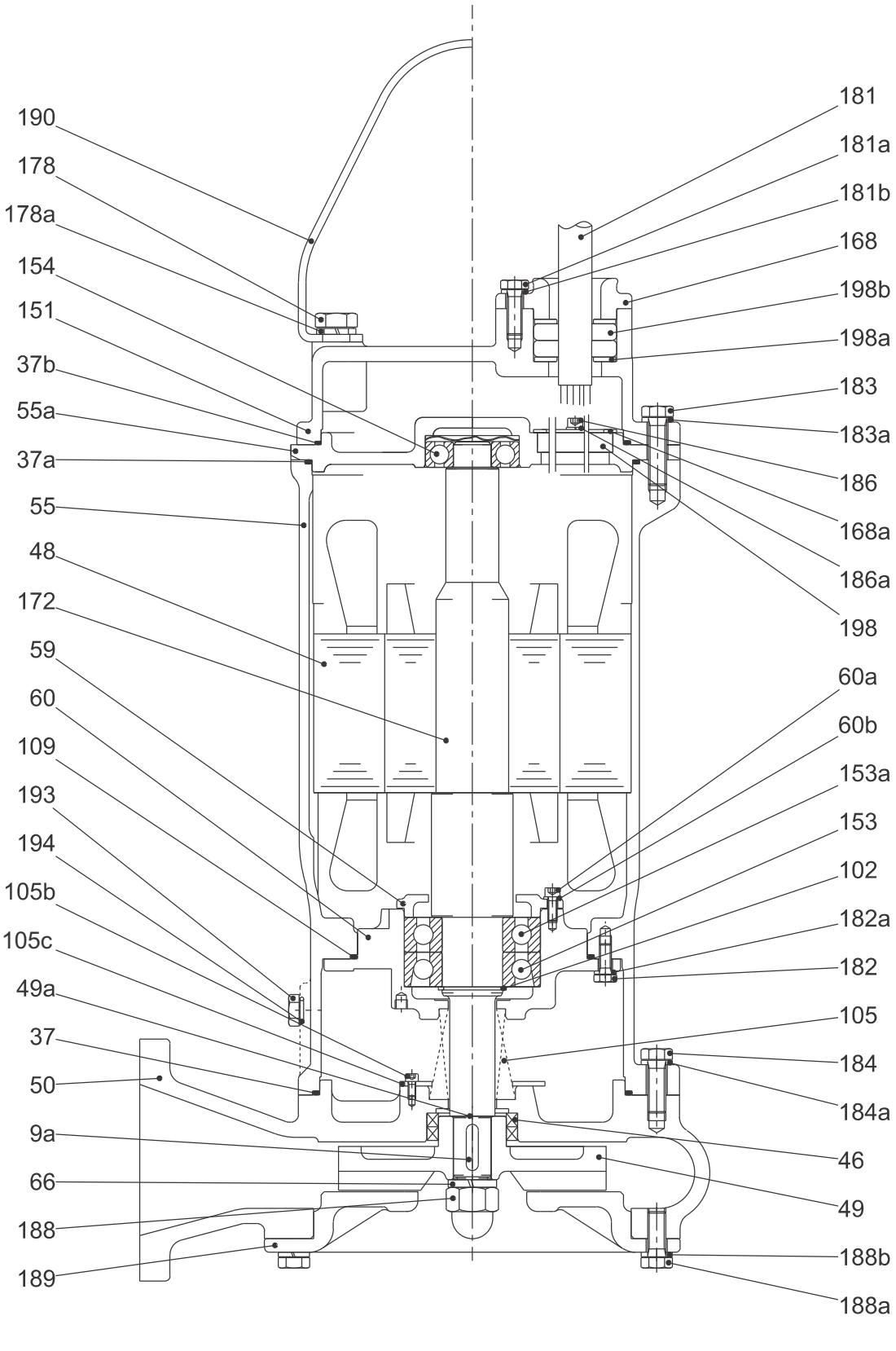


Fig. 28 Sectional drawing DPK.15.100.55 and DPK.15.100.75

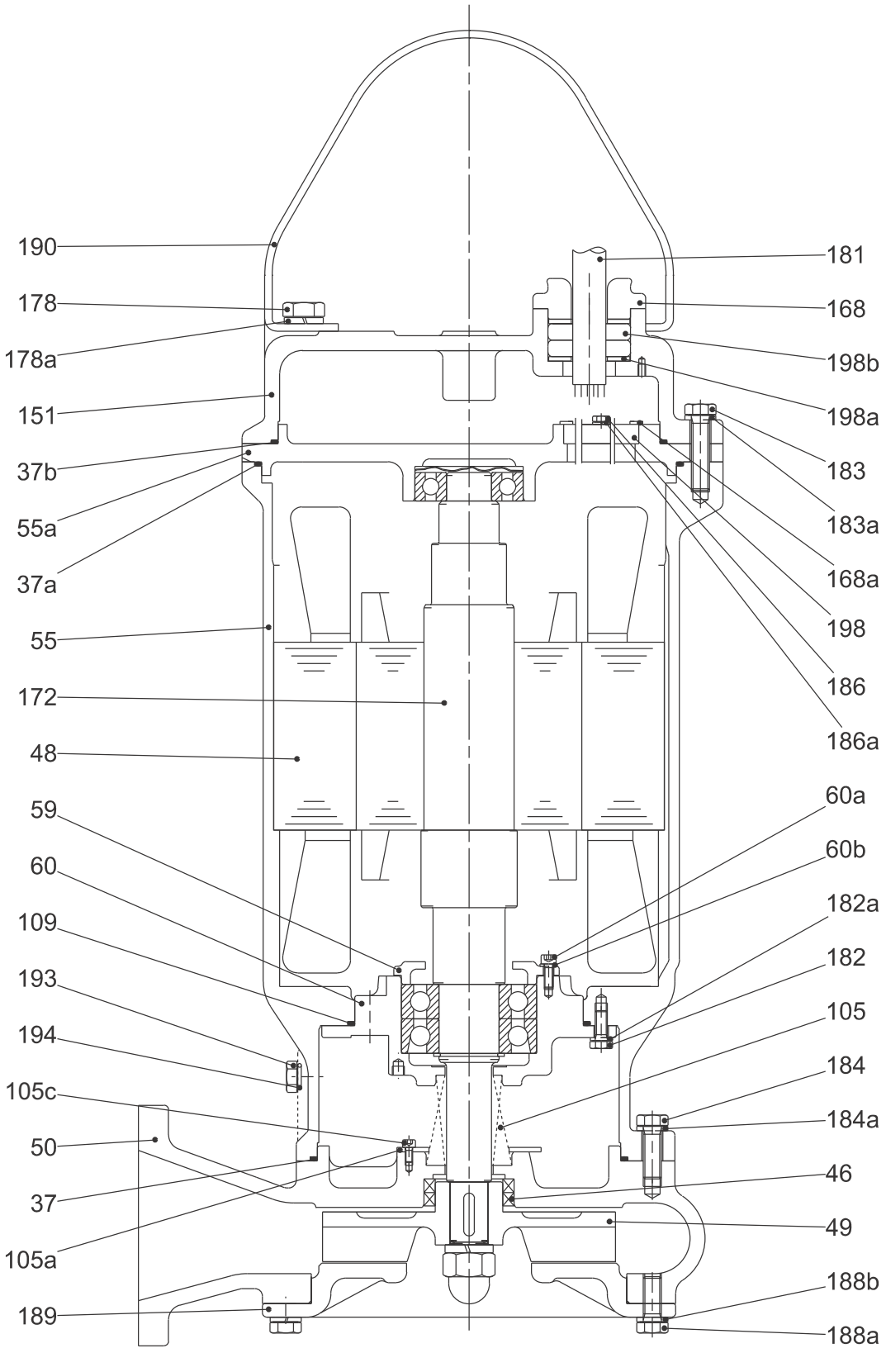


Fig. 29 Sectional drawing DPK.20.100.110 and DPK.20.100.150

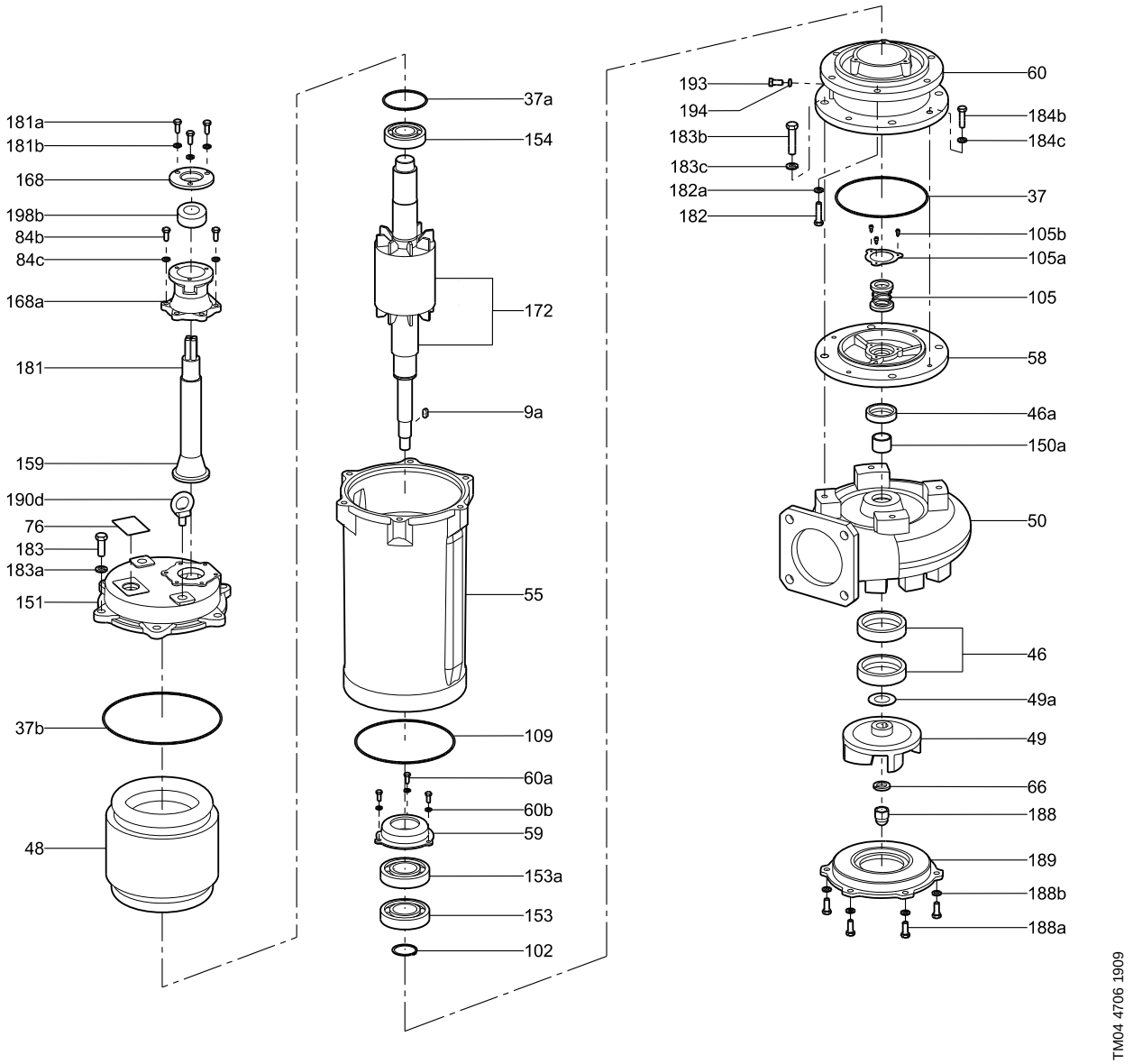


Fig. 30 Exploded drawing DPK.20.150.190 and DPK.20.150.220

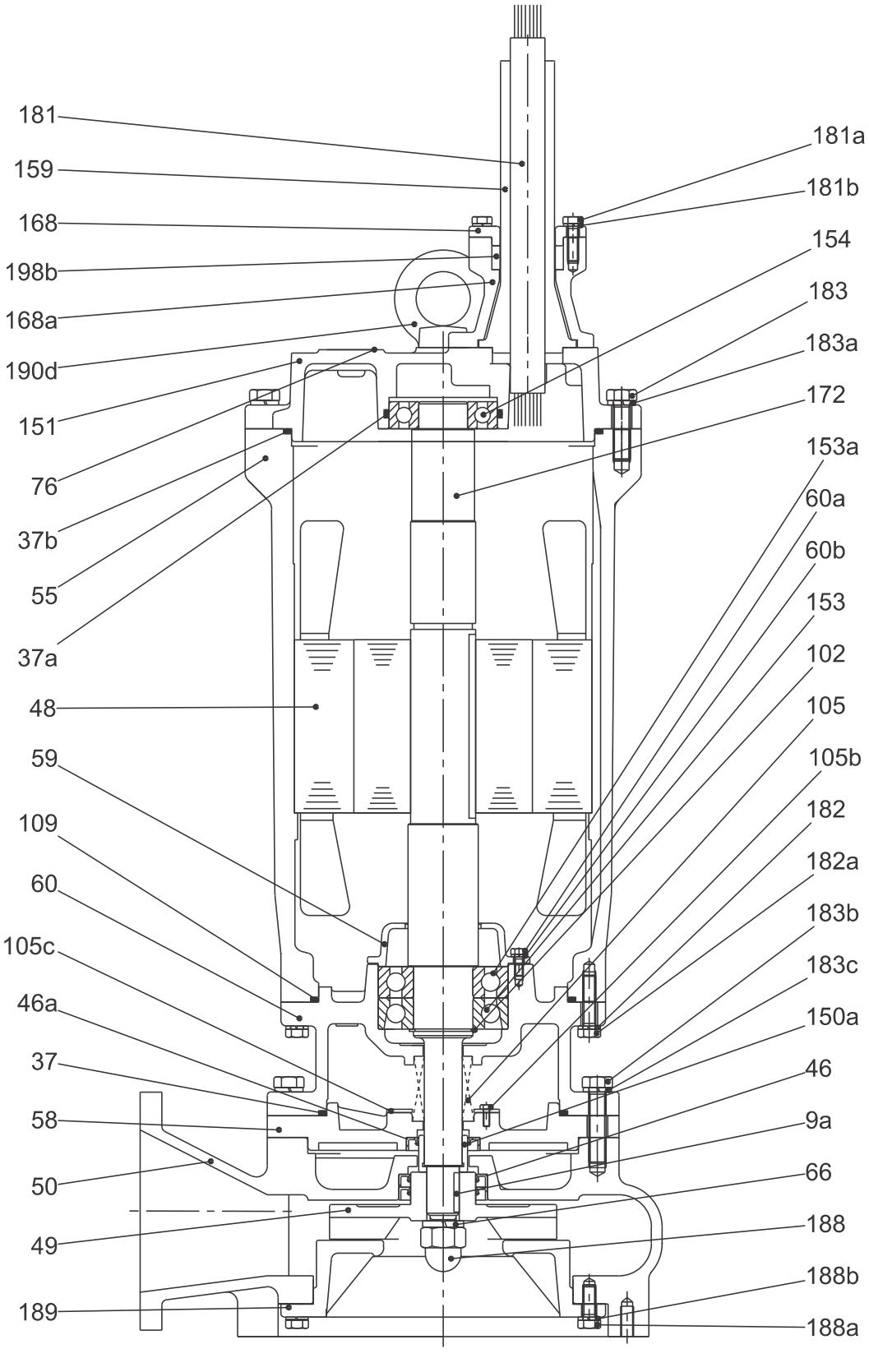


Fig. 31 Sectional drawing DPK.20.150.190 and DPK.20.150.220

Material specification

Pos.		Description	Material/Description		
			KS	ASTM	DIN
9	a	Key	STS410	ANSI410	-
12		Flange	GC200	A48-CL30	GG20
13		Hose connection	GC200	A48-CL30	GG20
26	a	O-Ring	NBR	NBR	NBR
35		Hexagon socket head cap screw	STS304	A276-304	1.4301
35	a	O-Ring	NBR	NBR	NBR
35	b	Spring washer	STS304	A276-304	1.4301
35	c	Gasket	NBR	NBR	NBR
37		O-ring	NBR	NBR	NBR
37	a	O-Ring	NBR	NBR	NBR
37	b	O-Ring	NBR	NBR	NBR
37	c	O-Ring	NBR	NBR	NBR
37	e	Gasket	NBR	NBR	NBR
39		O-Ring	NBR	NBR	NBR
39	a	O-Ring	NBR	NBR	NBR
39	b	O-Ring	NBR	NBR	NBR
39	c	O-Ring	NBR	NBR	NBR
39	e	Gasket	NBR	NBR	NBR
46		Lip seal	SCP1	SCP1	SCP1
48		Stator	-	-	-
49		Impeller	GCD200/ stainless steel	-	-GGG20/ stainless steel
49	a	Spacer ring	SS400	A283-Gr.D	-
50		Pump housing	GC200	A48-CL30	GG20
55		Motor housing	GC200	A48-CL30	GG20
55	a	Cooling jacket	SPP		
59		Bearing cover	GC200	A48-CL30	GG20
60		Lower bearing bracket	GC200	A48-CL30	GG20
60	a	Hexagon socket head cap screw	SM25C	A108-1025	-
60	b	Spring washer	SM25C	A108-1025	-
61	c	Upper bearing bracket	GC200	A48-CL30	GG20
66		Spring washer	STS304	A276-304	1.4301
76		Nameplate	STS304	A276-304	1.4301
84	a	Suction strainer/ring stand	SS400	A283-Gr.D	-
84	b	Hexagon socket head cap screw	STS304	A276-304	1.4301
84	c	Spring washer	STS304	A276-304	1.4301
102		Stop ring	STS304	A276-304	1.4301
105		Mechanical shaft seal	-	-	-
105	b	Hexagon socket head cap screw	SM25C	A108-1025	-
105	c	Shaft seal retainer	STS304	A276-304	1.4301
107		O-Ring	NBR	NBR	NBR
108		Sealing Washer	STS304	A276-304	1.4301
108	a	O-Ring	NBR	NBR	NBR
109		O-Ring	NBR	NBR	NBR
109	a	O-Ring	NBR	NBR	NBR
150	a	Shaft sleeve	STS304	A276-304	1.4301
151		Motor top cover	GC200	A48-CL30	GG20
153		Lower bearing	-	-	-
153	a				
154		Upper bearing	-	-	-

Pos.		Description	Material/Description		
			KS	ASTM	DIN
154	a	Cover	-	-	-
155		Shaft seal housing	GC200	A48-CL30	GG20
159		Rubber tube	NBR	NBR	NBR
159	a	Clamping ring	GC200	A48-CL30	GG20
168		Clamping ring	GC200	A48-CL30	GG20
168	a	Cable entry	GC200	A48-CL30	GG20
172		Rotor with shaft	STS410	ANSI410	-
178		Hexagon socket head cap screw	STS304	A276-304	1.4301
178	a	Spring washer	STS304	A276-304	1.4301
181		Power supply cable	2RNCT	2RNCT	2RNCT
181	a	Hexagon socket head cap screw	STS304	A276-304	1.4301
181	b	Spring washer	STS304	A276-304	1.4301
182		Hexagon socket head cap screw	STS304	A276-304	1.4301
182	a	Spring washer	STS304	A276-304	1.4301
183		Hexagon socket head cap screw	STS304	A276-304	1.4301
183	a	Spring washer	STS304	A276-304	1.4301
183	b	Hexagon socket head cap screw	STS304	A276-304	1.4301
183	c	Spring washer	STS304	A276-304	1.4301
184		Hexagon socket head cap screw	STS304	A276-304	1.4301
184	a	Spring washer	STS304	A276-304	1.4301
184	b	Hexagon socket head cap screw	STS304	A276-304	1.4301
184	c	Spring washer	STS304	A276-304	1.4301
185		O-Ring	STS304	A276-304	1.4301
186		Hexagon socket head cap screw	STS304	A276-304	1.4301
186	a	Spring sasher	STS304	A276-304	1.4301
188		Hexagon nut	STS304	A276-304	1.4301
188	a	Hexagon socket head cap screw	STS304	A276-304	1.4301
188	b	Spring washer	STS304	A276-304	1.4301
189		Suction cover	GCD200	-	GGG20
190		Lifting handle	STS304	A276-304	1.4301
190	d	Eyebolt	SM30C	A108-1030	-
193		Oil plug	STS304	A276-304	1.4301
194		O-Ring	NBR	NBR	NBR
198		Cable gland	NBR	NBR	NBR
198	a	Washer	STS304	A276-304	1.4301
522		Hexagon socket head cap screw	STS304	A276-304	1.4301
523		Spring washer	STS304	A276-304	1.4301

Features

Ball bearings

The lower bearings (pos. 153 and 153a) are double-row angular contact ball bearings.

The upper bearing (pos. 154) are single-row deep-groove ball bearings.

All bearings are greased for life.

Shaft seals

DWK.O and DPK

The pumps have two mechanical shaft seals separating the motor from the pumped liquid. The shaft seals are in the oil chamber.

DWK.E

The pump has two mechanical shaft seals and an additional lip seal below the secondary mechanical seal. The additional lip seal protects the mechanical seals and shaft against possible abrasives. In case of wear, the lip seal can be replaced.

As the pump does not provide high enough pressure around the shaft, eight springs provide the pressure to press the seal faces together.

The seal faces are made of SiC/SiC.

Motor

The motor is a watertight, totally enclosed motor.

Insulation class: F (155 °C).

Temperature rise class: F (105 °C).

Enclosure class IP68.

For motor protection and sensors, see section Sensors below.

Power cables

Cable type [mm^2]	Outer cable diameter [mm]	Bending radius	
		Fixed [mm]	Free [mm]
4 x 1.5 mm^2	12.8	64	192
4 x 1.5 mm^2 + 4 x 1 mm^2	15.9	80	239
4 x 2.5 mm^2 + 4 x 1 mm^2	17.6	88	264
4 x 4.0 mm^2 + 4 x 1 mm^2	18.4	92	276
4 x 6.0 mm^2 + 4 x 1 mm^2	19.3	97	290
4 x 10.0 mm^2 + 6 x 1 mm^2	22.9	115	344
7 x 4.0 mm^2 + 4 x 1 mm^2	21.5	108	323
7 x 6.0 mm^2 + 6 x 1 mm^2	24.8	124	372
7 x 10.0 mm^2 + 6 x 1 mm^2	25.8	129	387
7 x 16.0 mm^2 + 6 x 1 mm^2	28.4	142	426
7 x 25.0 mm^2 + 6 x 1 mm^2	31.5	158	473
7 x 35.0 mm^2 + 6 x 1 mm^2	34.4	172	512

The cables are 10 m long as standard. Other cable lengths are available on request. See section List of variants on page 15.

The number and dimension of cables depend on the motor size.

Cable entry DWK.O and DPK

Rubber bushing.

Cable entry DWK.E

Cable entry consists of a rubber seal bushing, an epoxy diaphragme and a rubber cover. This provides radial and axial barrier against water penetration into the motor housing.

Sensors

As standard the pumps are equipped with a bimetallic temperature sensor that will cut the circuit when motor temperature reaches 130 °C, except in these models:

DWK.O.x.x.075.x.x.R
DWK.O.x.x.15.x.x.R
DWK.O.x.x.22.x.x.R and
DWK.O.x.x.37.x.OD.R.

The abovementioned pumps have a TI thermal protection instead of the bimetallic temperature sensor.

Seal sensor for continuous monitoring of motor enclosure for liquid detection, except in these models:
DWK.O.x.x.075.x.x
DWK.O.x.x.15.x.x
DWK.O.x.x.22.x.x
DWK.O.x.x.37.x.x

DPK.x.x.075.x.x
DPK.x.x.15.x.x
DPK.x.x.22.x.x
DPK.x.x.37.x.x

Customised sensor options

1. Pt100 for temperature monitoring of motor and/or lower bearing (in versions where it is not included as standard).
2. Seal electrode sensor for monitoring water penetration into the oil chamber (in versions where it is not included as standard).

Testing

All pumps are tested before leaving the factory. The factory test report is based on ISO 9906, Annex A. Test reports can be ordered directly together with the pump or separately based on the pump serial number.

Other tests or third-party inspection certificates are available on request. See section List of variants on page 15.

Operating conditions

The pumps are designed for continuous operation, S1, and intermittent operation, S3.

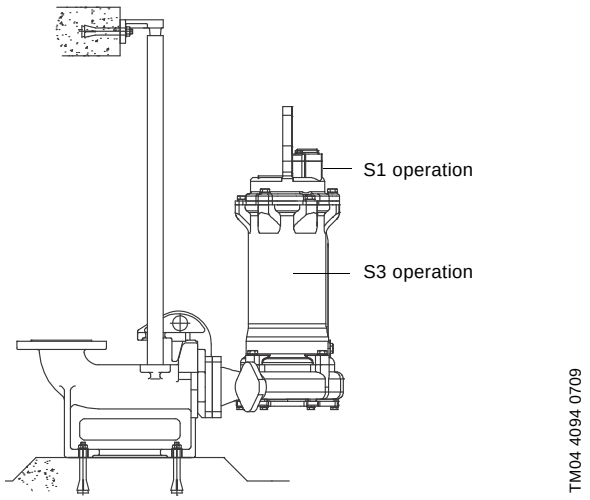


Fig. 32 Liquid level for DPK pumps in S1 or S3 operation

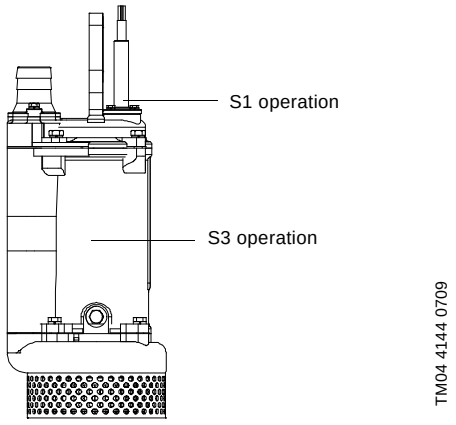


Fig. 33 Liquid level for DWK pumps in S1 or S3 operation

Continuous operation

Continuous operation, S1, is allowed when the pump is fully submerged to the top of the motor.

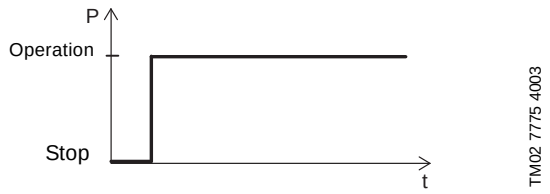


Fig. 34 Continuous operation

Intermittent operation

During intermittent opearation, S3, the pump must run for max. 4 minutes and stop for min. 6 minutes.
See fig. 35.

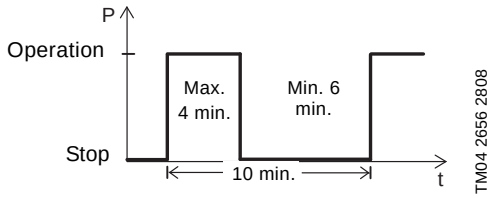


Fig. 35 Intermittent operation

Maximum number of starts per hour:

DPK and DWK.O: 30
DWK.E: 18

Pumped liquids

pH value: 4-10.
Liquid temperature: 0 °C to + 40 °C.

When pumping liquids with a density and/or a kinematic viscosity higher than that of water, use motors with correspondingly higher outputs.

Motor range

Pump type	Shaft power [kW]
DWK.O/DPK	0.75
DWK.O/DPK	1.5
DWK.O/DPK	2.2
DWK.O/DPK	3.7
DWK.O/DPK	5.5
DWK.O/DPK	7.5
DWK.O/DPK	11
DWK.O/DPK	15
DPK	19
DWK.E/DPK	22
DWK.E	30
DWK.E	37
DWK.E	45
DWK.E	55
DWK.E	75
DWK.E	90

Pump controllers

The pumps must be connected to a control box with a motor protection relay with IEC trip class 10 or 15.

Note: Pumps for hazardous locations must be connected to a control box with a motor protection relay with IEC trip class 10.

The pumps can be controlled by the following LC and LCD pump controllers:

- LC 107, LCD 107 with air bells
- LC 108, LCD 108 with float switches
- LC 110, LCD 110 with water level electrodes.

LC controllers are for single-pump installations; LCD ontrollers are for two-pump installations.

In the following description, "level switch" means air bell, float switch or water level electrode, depending on the pump controller selected.

The LC controller is fitted with two or three level switches: One for start and one for stop of pump. The third - optional - level switch, is for high-level alarm.

The LCD controller is fitted with three or four level switches: Two for start of the pumps and one for common stop. The fourth - optional - level switch, is for high-level alarm.

For further settings, see the installation and operating instructions for the pump controller selected.

Frequency converter operation

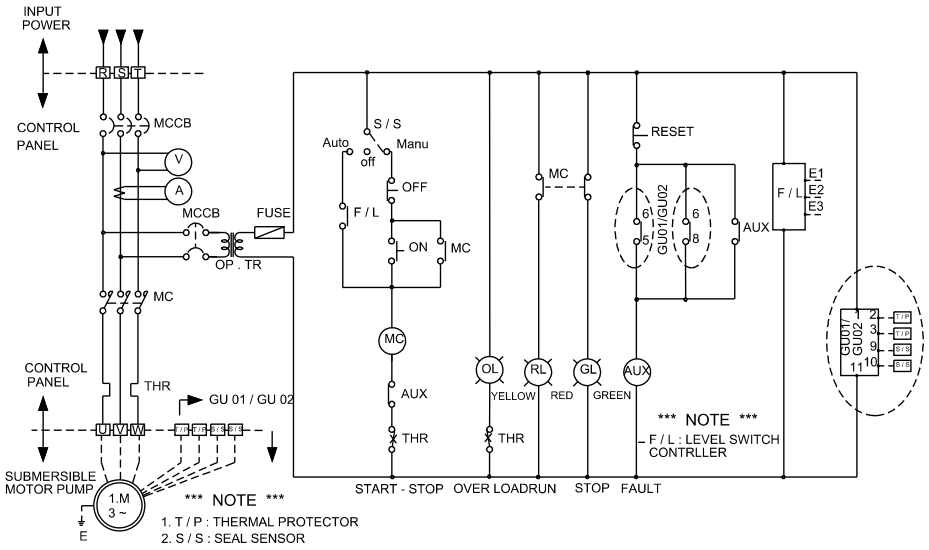
In principle, all three-phase motors can be connected to a frequency converter.

However, frequency converter operation will often expose the motor insulation system to a heavier load and cause the motor to be more noisy than usual due to eddy currents caused by voltage peaks.

In addition, large motors driven via a frequency converter will be loaded by bearing currents.

For more information, please see the installation and operation instructions, 96937255, for DWK and 96937253 for DPK at www.grundfos.com

Wiring diagrams



TM04 4096 0709

Fig. 36 Wiring diagram, DOL-starting

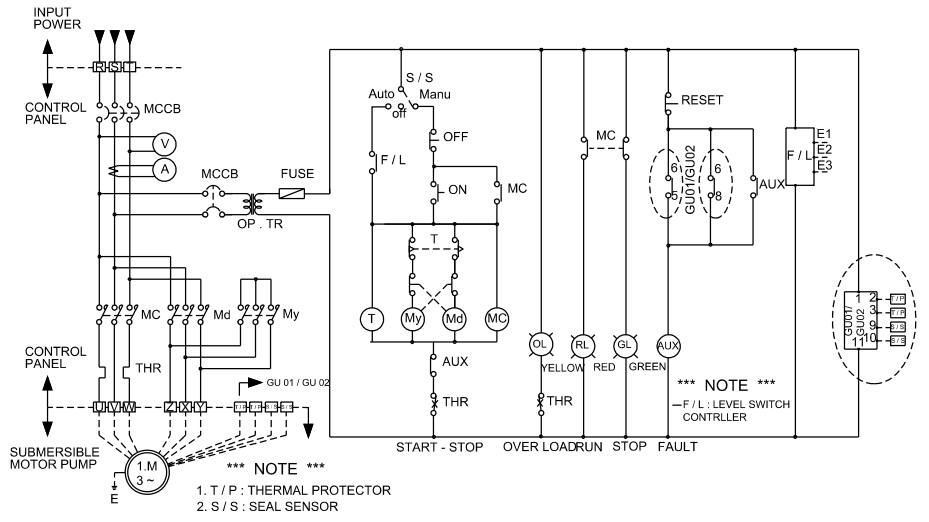


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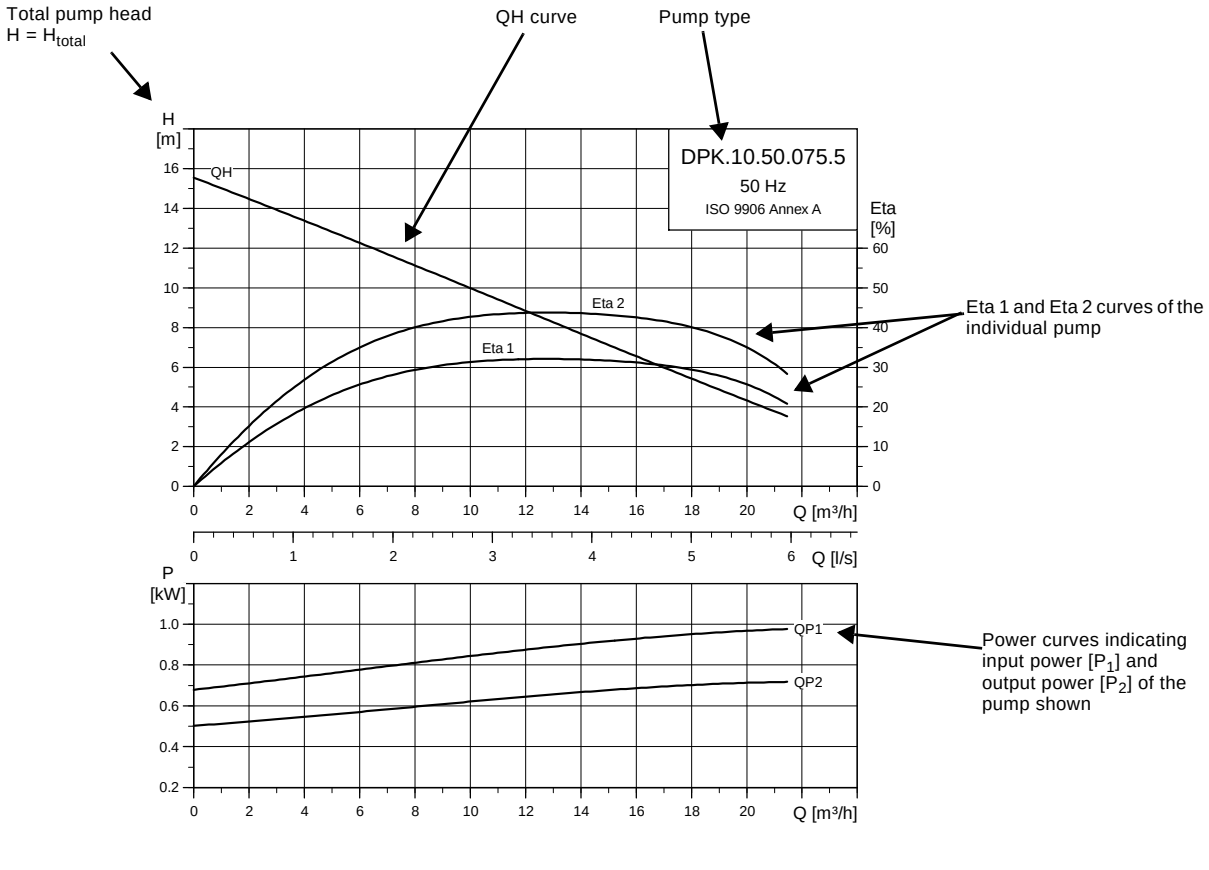
Fig. 37 Wiring diagram, star-delta starting

How to read the curve charts



Curve conditions

The guidelines below apply to the curves shown in the performance charts on page 50 to page 51.

- Tolerances according to: ISO 9906, Annex A.
- The curves show pump performance with different impeller diameters at the rated speed.
- The curves apply to the pumping of airless water at a temperature of + 20 °C and a kinematic viscosity of 1 mm^2/s (1 cSt).
- **ETA:** The lines show values of the hydraulic efficiency of the pump for the different impeller diameters.
- In case of other densities than 1000 kg/m^3, the discharge pressure is proportional to the density.
- When pumping liquids with a density higher than 1000 kg/m^3, motors with correspondingly higher outputs must be used.

Calculation of total head

The total pump head consists of the height difference between the measuring points + the differential head + the dynamic head.

$$H_{total} = H_{geo} + H_{stat} + H_{dyn}$$

H_{geo}: Height difference between measuring points.

H_{stat}: Differential head between suction and the discharge side of the pump.

H_{dyn}: Calculated values based on the velocity of the pumped liquid on the suction and the discharge side of the pump.

Performance tests

The requested duty point for every pump is tested according to ISO 9906, Annex A, and without certification.

In case of pumps ordered on the basis of impeller diameter only (no requested duty point), the pump will be tested at a duty point which is 2/3 of the maximum flow of the published performance curve which is related to the ordered impeller diameter (according to ISO 9906, Annex A).

If the customer requires either more points on the curve to be checked or certain minimum performances or certificates, individual measurements must be made, and a certificate can be ordered.

Certificates

Certificates have to be confirmed for every order and are available on request as follows:

- Certificate of compliance with the order (EN 10204-2.1)
- Pump test sheet.

Witness test

It is possible for the customer to witness the testing procedure according to ISO 9906.

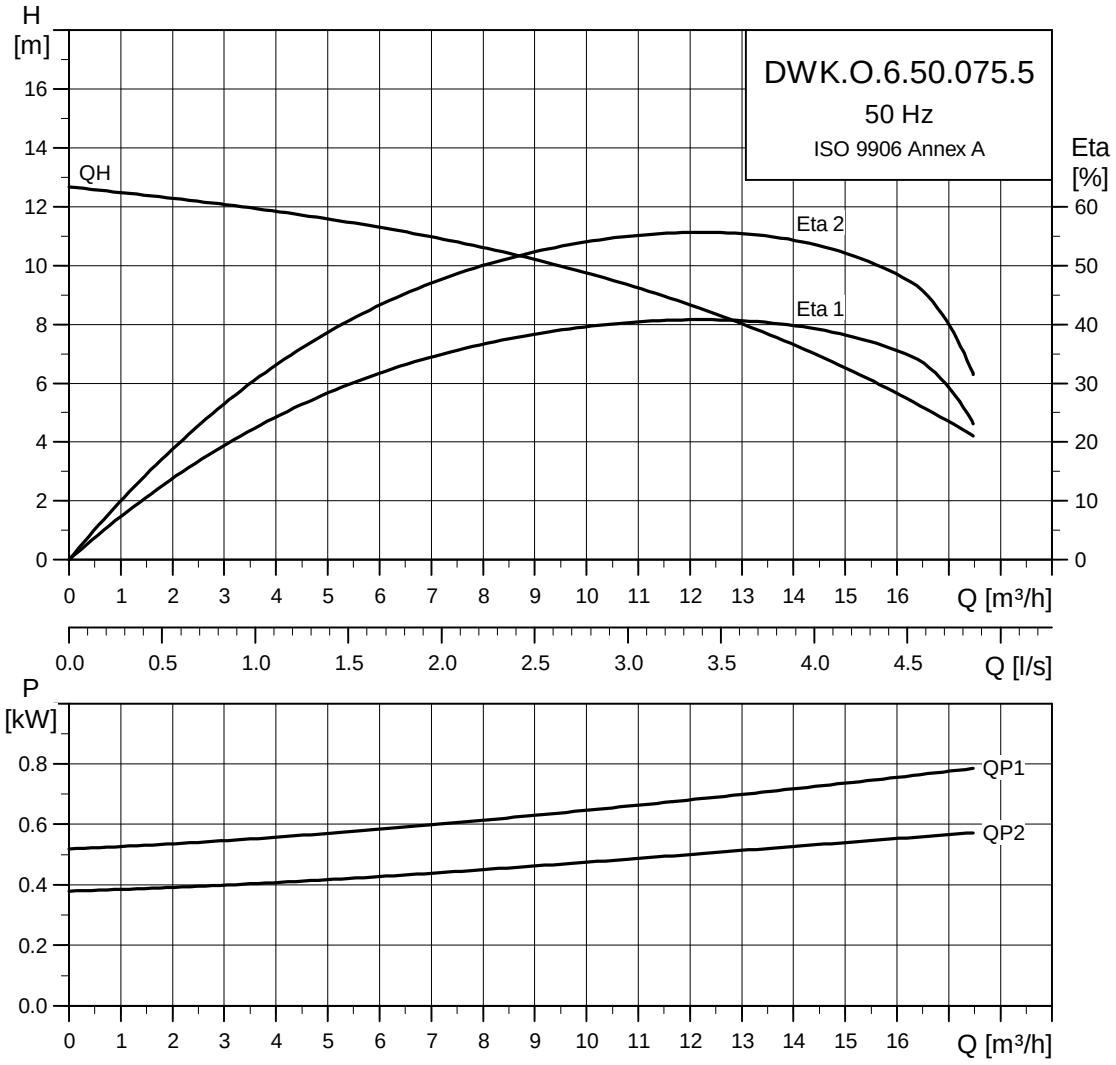
The witness test is not a certificate and will not result in a written statement from Grundfos. The witness itself is the only guarantee that everything is carried out as prescribed in the testing procedure.

If the customer wants to witness the test of pump performance, this request must be stated in the order.

Performance curves/ Technical data

DWK.O

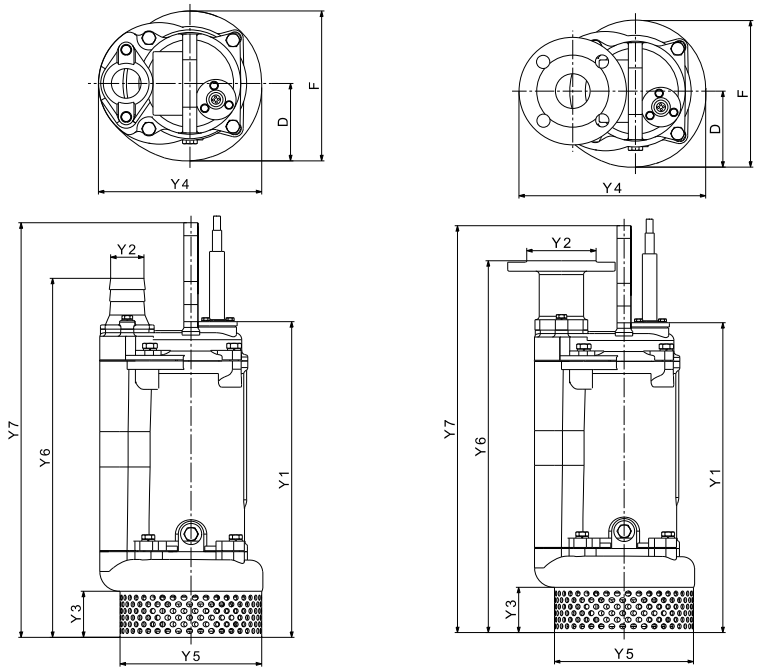
Performance curves DWK.O.6.50.075.5



TM04 2918 1409

Performance curves/ Technical data

Dimensional sketches



TM04 4147 0909/TM04 4149 0909

Dimensions

Pump type	Connection type	Y1	Y2	Y3	Y4	Y5	Y6	Y7	D	F	Weight [kg]
DWK.O.6.50.075	Hose	398	50	65	231	202	387	448	110	213	31
	Flange	398	100	65	192	202	387	448	110	213	31

With 10 m cable

Electrical data

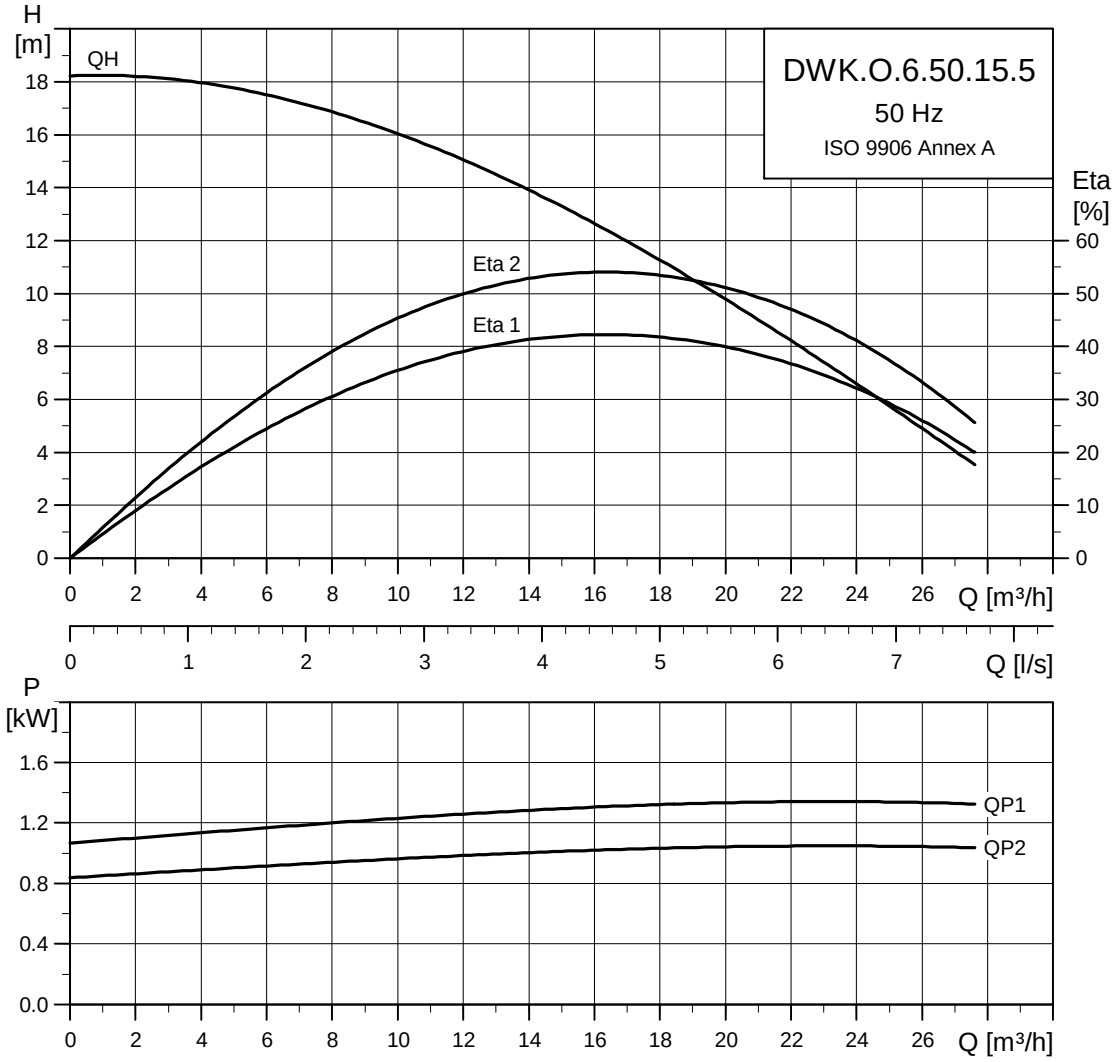
Pump type	Voltage [V]	P2 [kW]	RPM	Starting method	I_N	η_{motor} [%]			Cos φ			Cable
					[A]	1/2	3/4	1/1	1/2	3/4	1/1	
DWK.O.6.50.075.5.0D	3 x 380-415 V Y	0.75	2850	DOL	2	71.2	72.8	73.3	0.68	0.749	0.778	4 x 1.5 mm^2 + 4 x 1 mm^2
DWK.O.6.50.075.5.0E	3 x 220-240 V D	0.75	2850	DOL	3.5	71.2	72.8	73.3	0.68	0.749	0.778	4 x 1.5 mm ^{2} + 4 x 1 mm^2
DWK.O.6.50.075.5.0D.R	3 x 380-415 V Y	0.75	2850	DOL	2	71.2	72.8	73.3	0.68	0.749	0.778	4 x 1.5 mm^2
DWK.O.6.50.075.5.0E.R	3 x 220-240 V D	0.75	2850	DOL	3.5	71.2	72.8	73.3	0.68	0.749	0.778	4 x 1.5 mm^2

Pump data

Pump type	Impeller type	Max . solids size [mm]	Max . number of starts per hour	Max. installation depth [m]	Enclosure class	Insulation class	Max. liquid temperature [°C]	pH
DWK.O.6.50.075.5	Semi-open	6	30	25	68	F	40	4-10

Performance curves/ Technical data

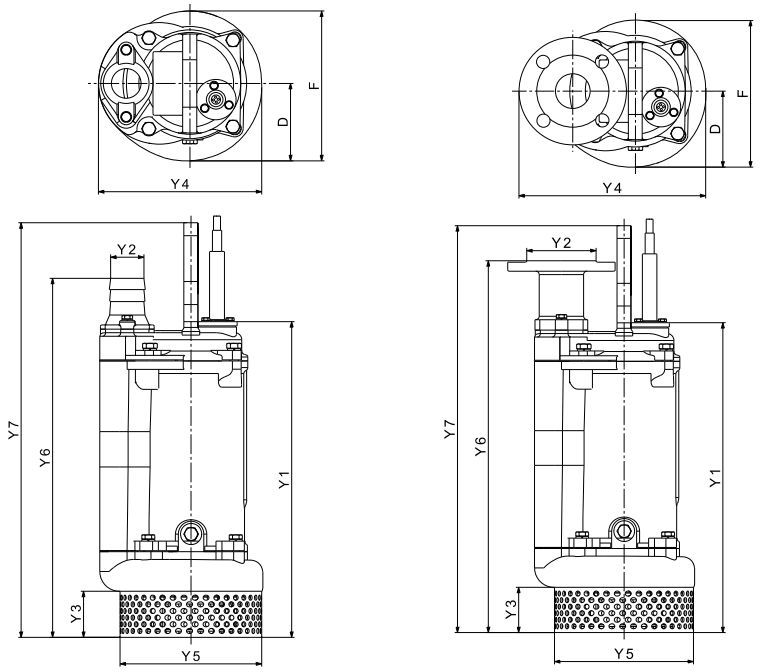
Performance curves DWK.O.6.50.15.5



TM04 2919 1409

Performance curves/ Technical data

Dimensional sketches



TM04 4147 0909/TM04 4149 0909

Dimensions

Pump type	Connection type	Y1	Y2	Y3	Y4	Y5	Y6	Y7	D	F	Weight [kg]
DWK.O.6.50.15	Hose	428	50	65	231	202	417	478	110	213	41
	Flange	428	100	65	192	202	417	478	110	213	41

With 10 m cable

Electrical data

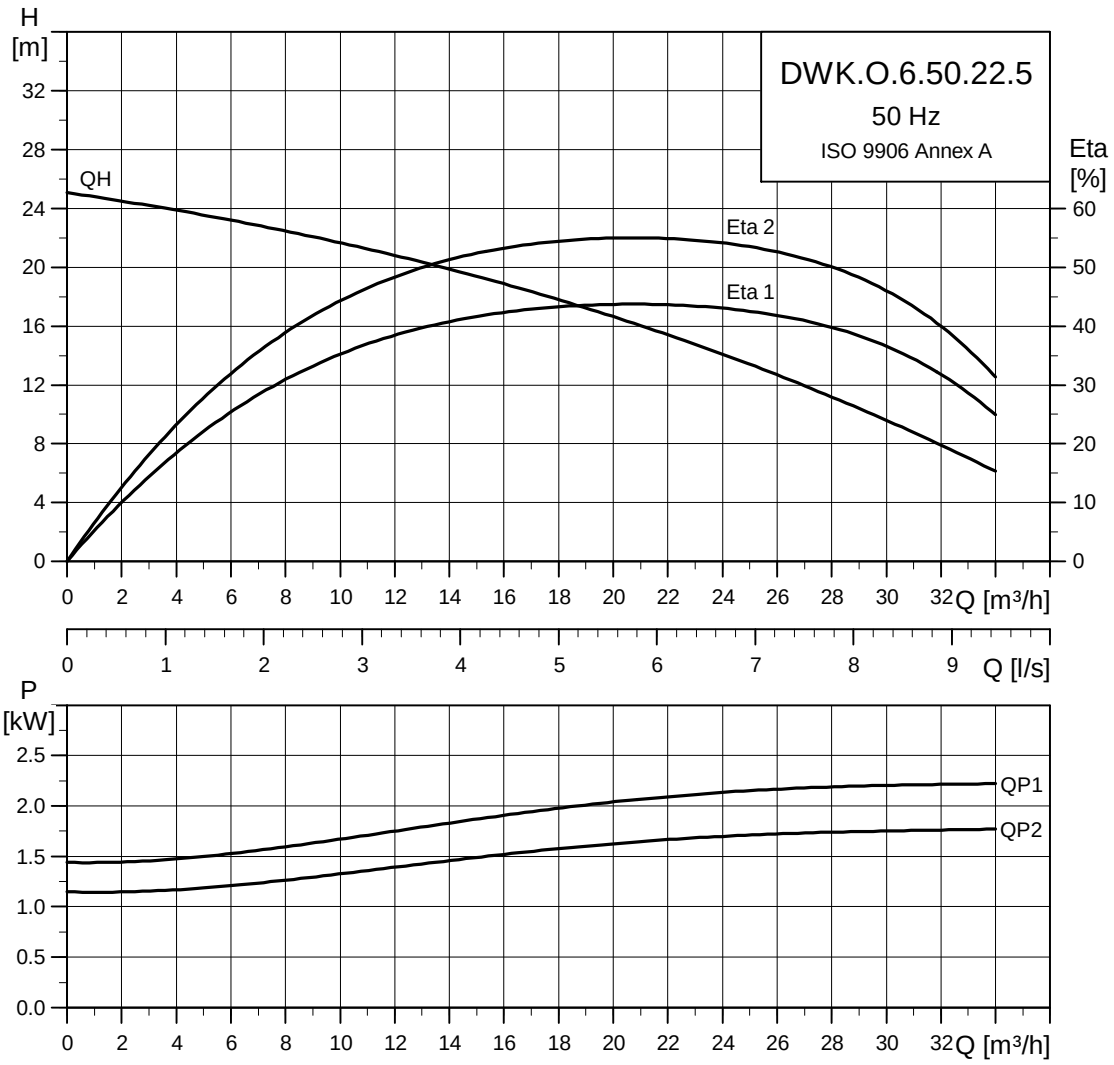
Pump type	Voltage [V]	P2 [kW]	RPM	Starting method	I_N	η_{motor} [%]			Cos φ			Cable
					[A]	1/2	3/4	1/1	1/2	3/4	1/1	
DWK.O.6.50.15.5.0D	3 x 380-415 V Y	1.5	2850	DOL	3.6	76.2	77.8	78.4	0.708	0.78	0.81	4 x 1.5 mm^2 + 4 x 1 mm^2
DWK.O.6.50.15.5.0E	3 x 220-240 V D	1.5	2850	DOL	6.2	76.2	77.8	78.4	0.708	0.78	0.81	4 x 1.5 mm^2 + 4 x 1 mm^2
DWK.O.6.50.15.5.0D.R	3 x 380-415 V Y	1.5	2850	DOL	3.6	76.2	77.8	78.4	0.708	0.78	0.81	4 x 1.5 mm^2
DWK.O.6.50.15.5.0E.R	3 x 220-240 V D	1.5	2850	DOL	6.2	76.2	77.8	78.4	0.708	0.78	0.81	4 x 1.5 mm^2

Pump data

Pump type	Impeller type	Max. solids size [mm]	Max . number of starts per hour	Max. installation depth [m]	Enclosure class	Insulation class	Max. liquid temperature [°C]	pH
DWK.O.6.50.15.5	Semi-open	6	30	25	68	F	40	4-10

Performance curves/ Technical data

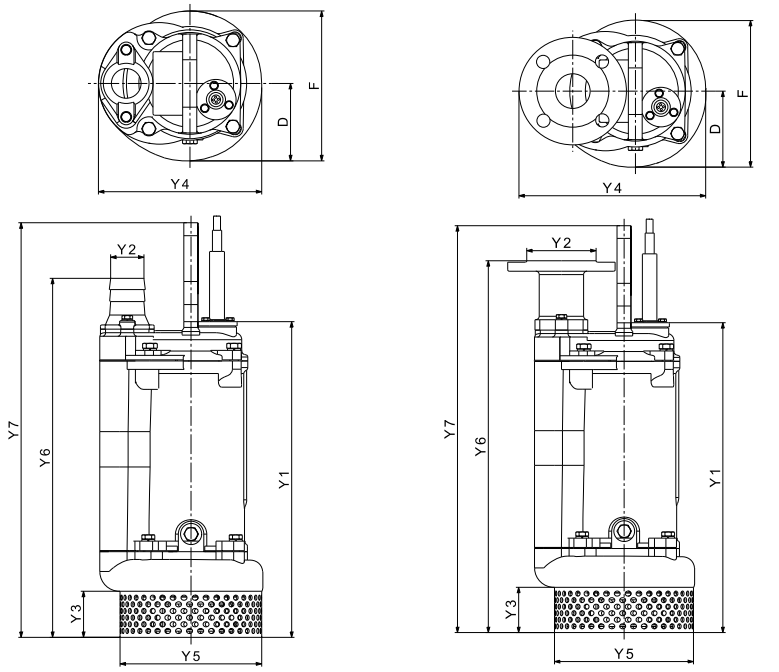
Performance curves DWK.O.6.50.22.5



TM04 2920 1409

Performance curves/ Technical data

Dimensional sketches



TM04 4147 0909/TM04 4149 0909

Dimensions

Pump type	Connection type	Y1	Y2	Y3	Y4	Y5	Y6	Y7	D	F	Weight [kg]
DWK.O.6.50.22	Hose	448	50	65	231	202	437	498	110	213	45
	Flange	448	100	65	192	202	437	498	110	213	45

With 10 m cable

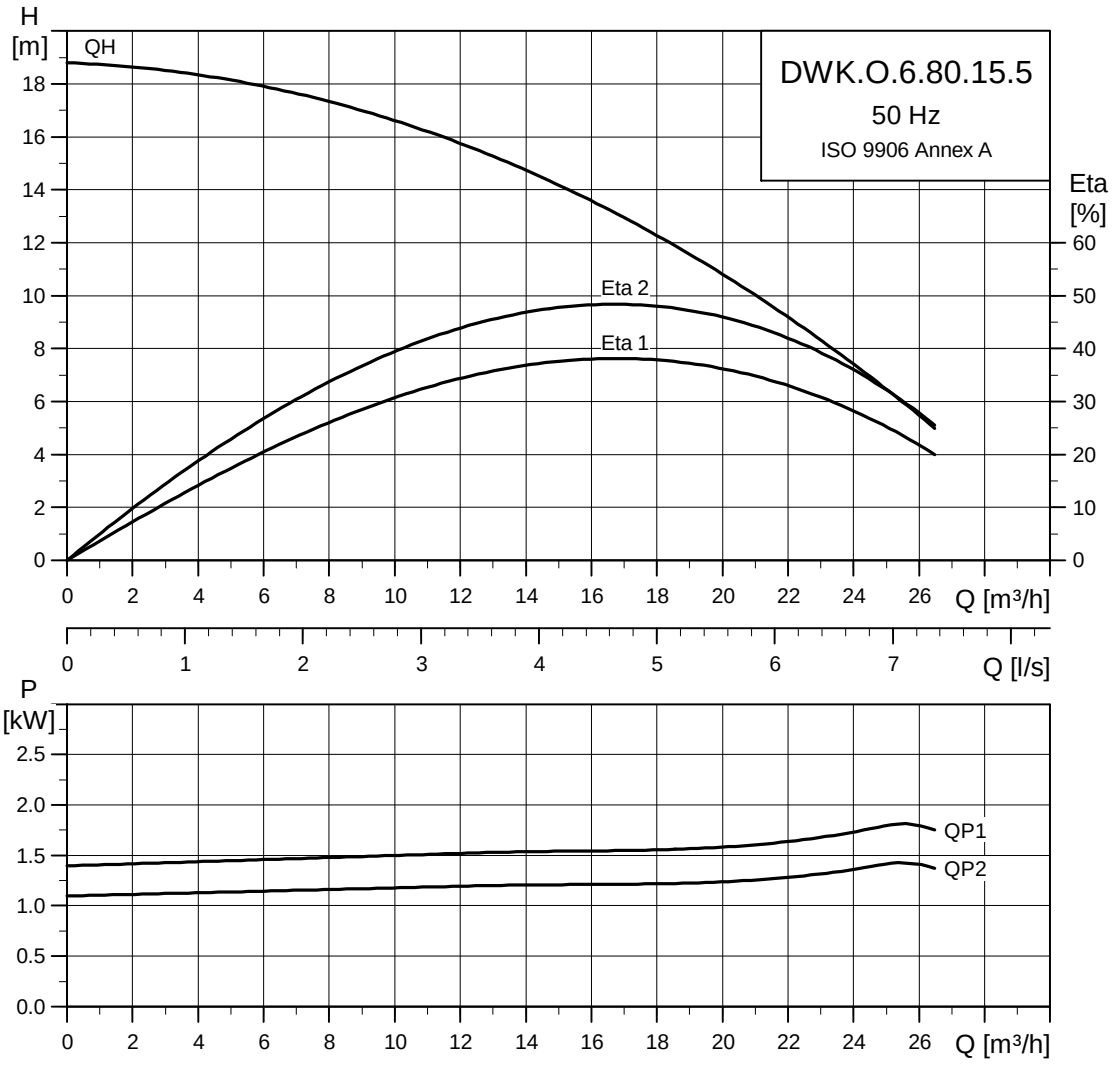
Electrical data

Pump type	Voltage [V]	P2 [kW]	RPM	Starting method	I_N	η_{motor} [%]			Cos φ			Cable
					[A]	1/2	3/4	1/1	1/2	3/4	1/1	
DWK.O.6.50.22.5.0D	3 x 380-415 V Y	2.2	2850	DOL	5.1	77.3	78.9	79.5	0.715	0.789	0.819	4 x 1.5 mm^2 + 4 x 1 mm^2
DWK.O.6.50.22.5.0E	3 x 220-240 V D	2.2	2850	DOL	8.9	77.3	78.9	79.5	0.715	0.789	0.819	4 x 1.5 mm^2 + 4 x 1 mm^2
DWK.O.6.50.22.5.0D.R	3 x 380-415 V Y	2.2	2850	DOL	5.1	77.3	78.9	79.5	0.715	0.789	0.819	4 x 1.5 mm^2
DWK.O.6.50.22.5.0E.R	3 x 220-240 V D	2.2	2850	DOL	8.9	77.3	78.9	79.5	0.715	0.789	0.819	4 x 1.5 mm^2

Pump data

Pump type	Impeller type	Max. solids size [mm]	Max . number of starts per hour	Max. installation depth [m]	Enclosure class	Insulation class	Max. liquid temperature [°C]	pH
DWK.O.6.50.22.5	Semi-open	6	30	25	68	F	40	4-10

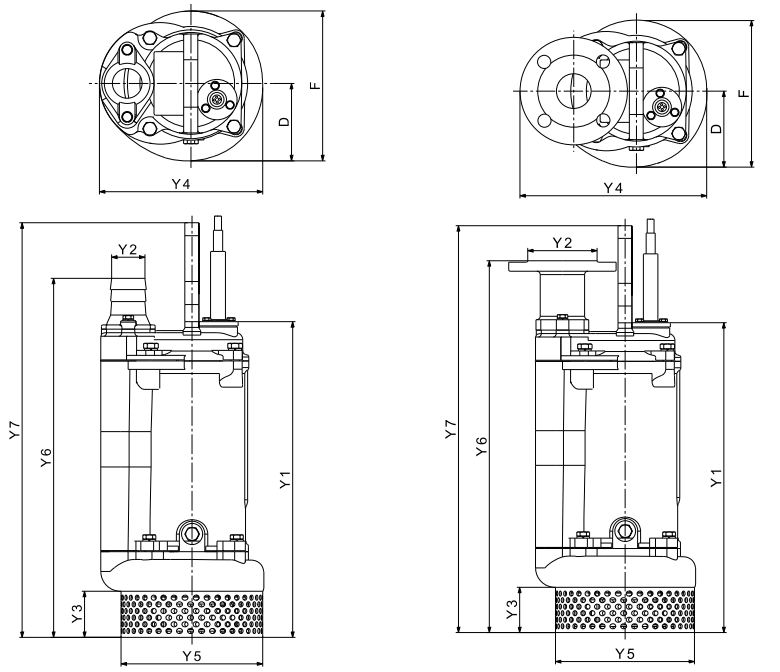
Performance curves DWK.O.6.80.15.5



TM04 2921 1409

Performance curves/ Technical data

Dimensional sketches



TM04 4147 0909/TM04 4149 0909

Dimensions

Pump type	Connection type	Y1	Y2	Y3	Y4	Y5	Y6	Y7	D	F	Weight [kg]
DWK.O.6.80.15.5	Hose	428	80	65	231	202	417	478	110	213	41
	Flange	428	127	65	192	202	417	478	110	213	41

With 10 m cable

Electrical data

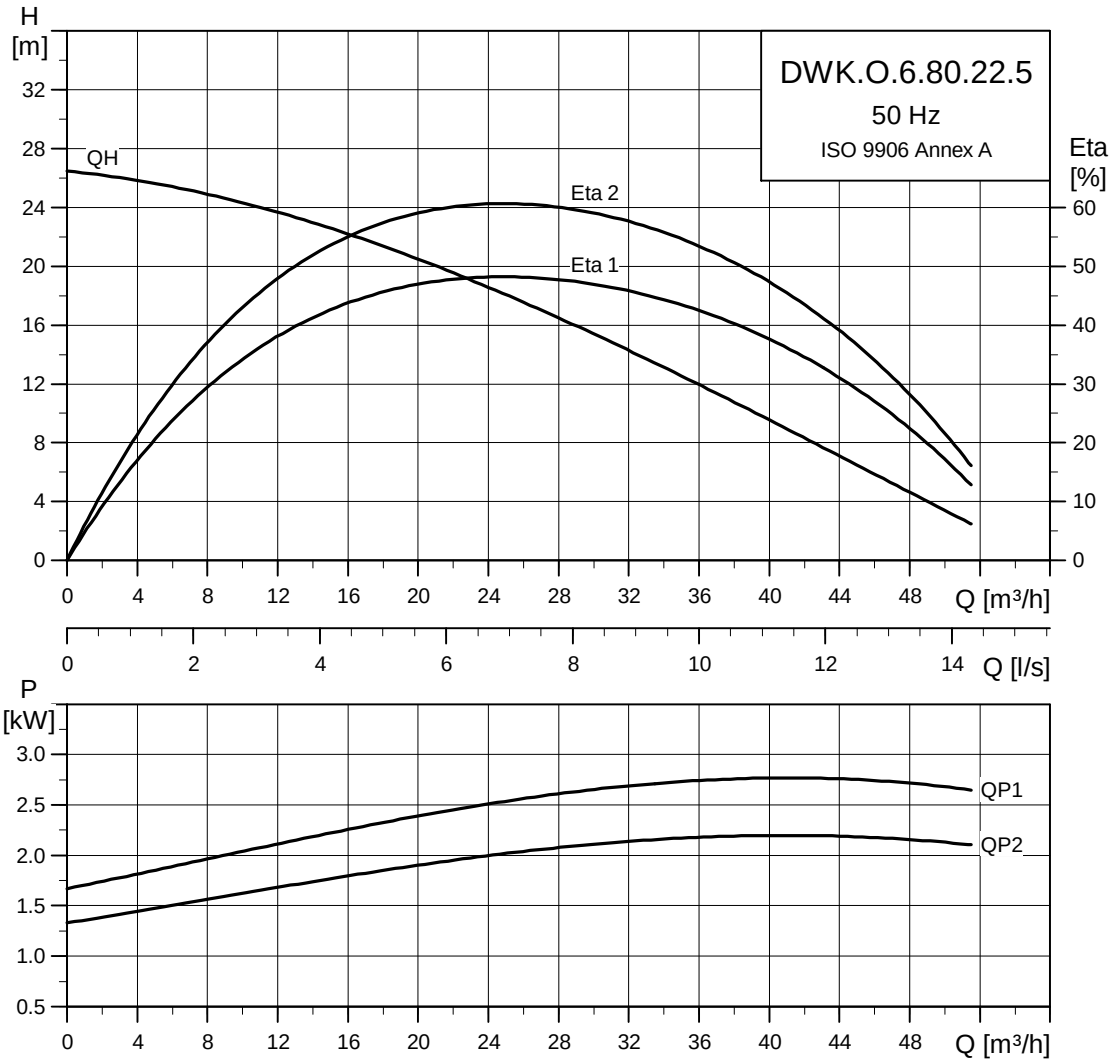
Pump type	Voltage [V]	P2 [kW]	RPM	Starting method	I_N	η_{motor} [%]			Cos φ			Cable
					[A]	1/2	3/4	1/1	1/2	3/4	1/1	
DWK.O.6.80.15.5.0D	3 x 380-415 V Y	1.5	2850	DOL	3.6	76.2	77.8	78.4	0.708	0.78	0.81	4 x 1.5 mm^2 + 4 x 1 mm^2
DWK.O.6.80.15.5.0E	3 x 220-240 V D	1.5	2850	DOL	6.2	76.2	77.8	78.4	0.708	0.78	0.81	4 x 1.5 mm^2 + 4 x 1 mm^2
DWK.O.6.80.15.5.0D.R	3 x 380-415 V Y	1.5	2850	DOL	3.6	76.2	77.8	78.4	0.708	0.78	0.81	4 x 1.5 mm^2
DWK.O.6.80.15.5.0E.R	3 x 220-240 V D	1.5	2850	DOL	6.2	76.2	77.8	78.4	0.708	0.78	0.81	4 x 1.5 mm^2

Pump data

Pump type	Impeller type	Max. solids size [mm]	Max . number of starts per hour	Max. installation depth [m]	Enclosure class	Insulation class	Max. liquid temperature [°C]	pH
DWK.O.6.80.15.5	Semi-open	6	30	25	68	F	40	4-10

Performance curves/ Technical data

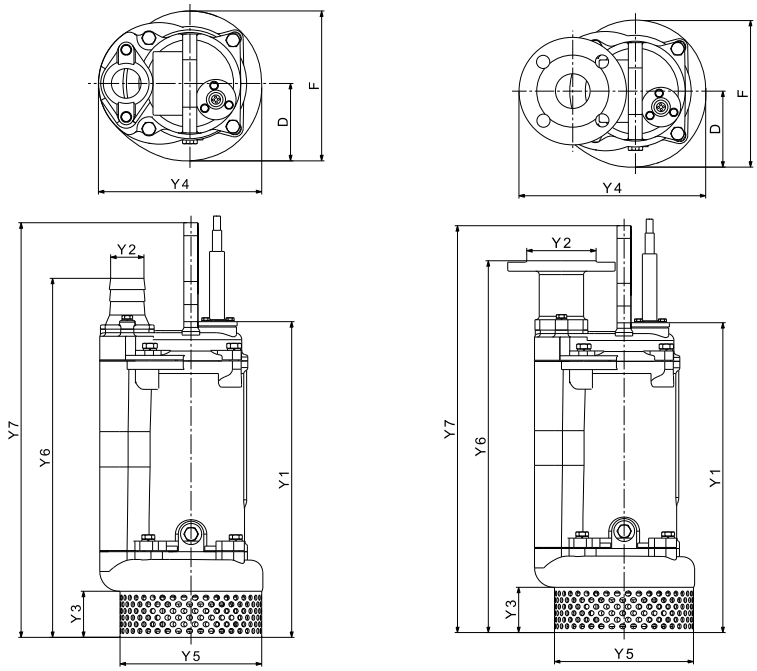
Performance curves DWK.O.6.80.22.5



TM4 2922 1409

Performance curves/ Technical data

Dimensional sketches



TM04 4147 0909/TM04 4149 0909

Dimensions

Pump type	Connection type	Y1	Y2	Y3	Y4	Y5	Y6	Y7	D	F	Weight [kg]
DWK.O.6.80.22	Hose	448	80	65	231	202	437	498	110	213	45
	Flange	448	127	65	192	202	437	498	110	213	45

With 10 m cable

Electrical data

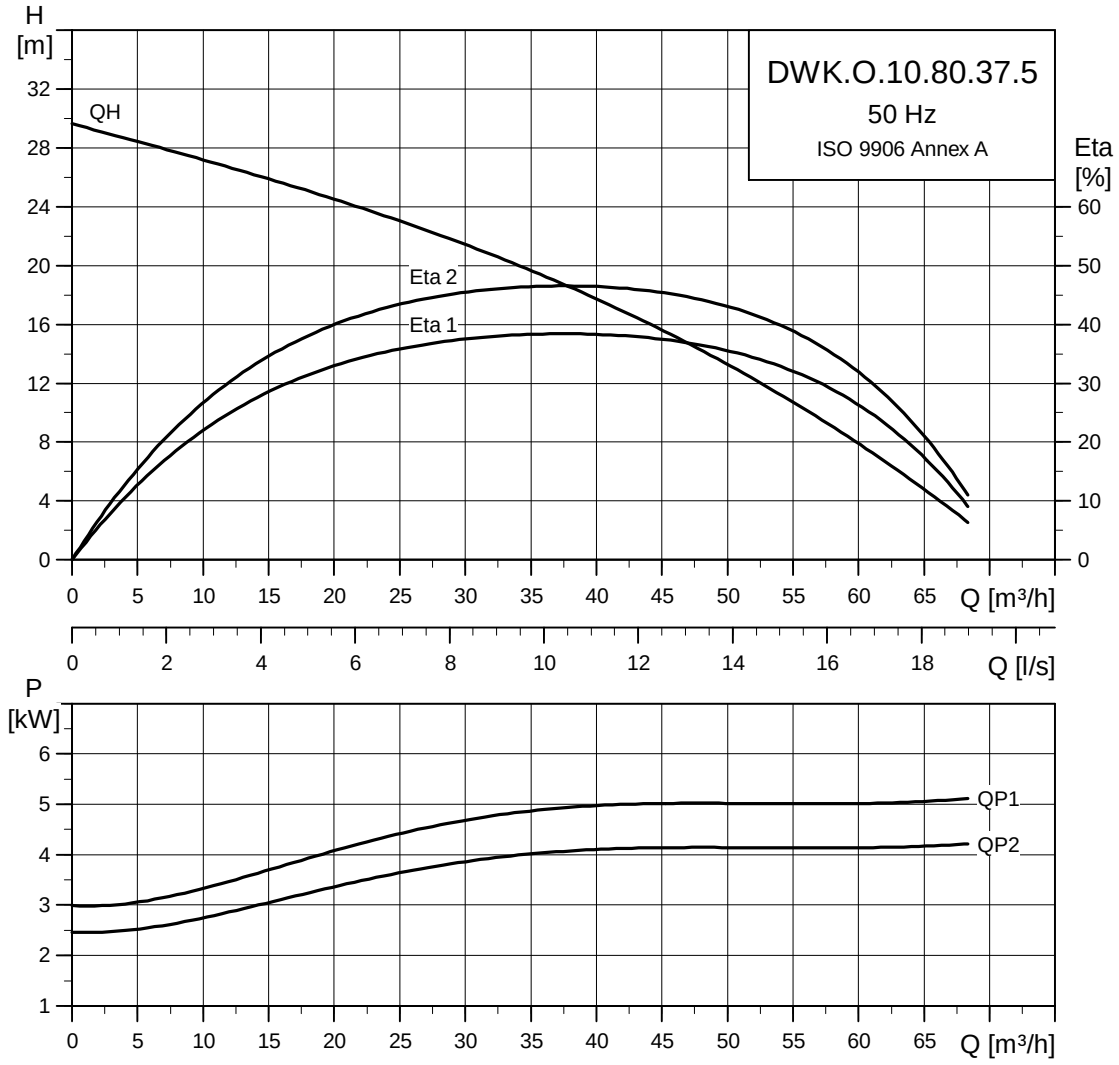
Pump type	Voltage [V]	P2 [kW]	RPM	Starting method	I_N	η_{motor} [%]			Cos φ			Cable
					[A]	1/2	3/4	1/1	1/2	3/4	1/1	
DWK.O.6.80.22.5.0D	3 x 380-415 V Y	2.2	2850	DOL	5.1	77.3	78.9	79.5	0.715	0.789	0.819	4 x 1.5 mm^2 + 4 x 1 mm^2
DWK.O.6.80.22.5.0E	3 x 220-240 V D	2.2	2850	DOL	8.9	77.3	78.9	79.5	0.715	0.789	0.819	4 x 1.5 mm^2 + 4 x 1 mm^2
DWK.O.6.80.22.5.0D.R	3 x 380-415 V Y	2.2	2850	DOL	5.1	77.3	78.9	79.5	0.715	0.789	0.819	4 x 1.5 mm^2
DWK.O.6.80.22.5.0E.R	3 x 220-240 V D	2.2	2850	DOL	8.9	77.3	78.9	79.5	0.715	0.789	0.819	4 x 1.5 mm^2

Pump data

Pump type	Impeller type	Max. solids size [mm]	Max . number of starts per hour	Max. installation depth [m]	Enclosure class	Insulation class	Max. liquid temperature [°C]	pH
DWK.O.6.80.22.5	Semi-open	6	30	25	68	F	40	4-10

Performance curves/ Technical data

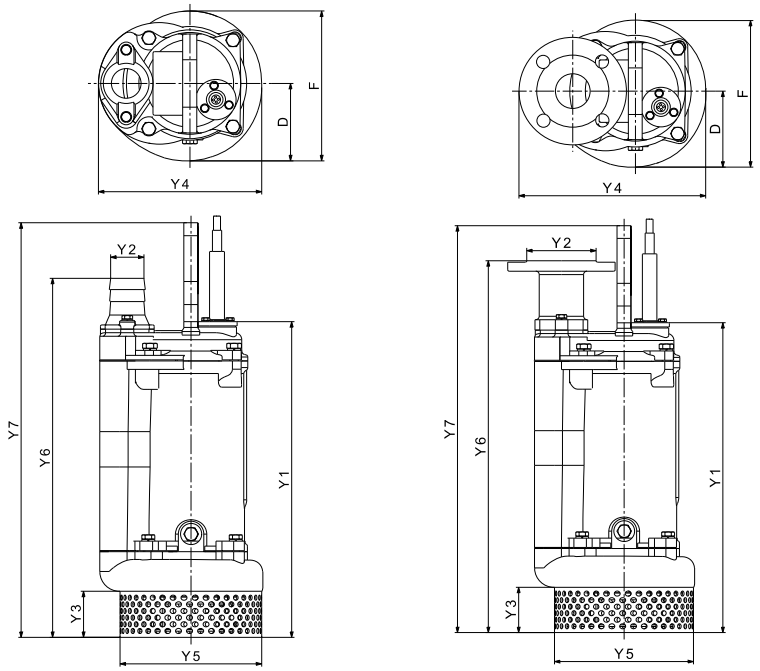
Performance curves DWK.O.10.80.37.5



TM4 2923 1409

Performance curves/ Technical data

Dimensional sketches



TM04 4147 0909/TM04 4149 0909

Dimensions

Pump type	Connection type	Y1	Y2	Y3	Y4	Y5	Y6	Y7	D	F	Weight [kg]
DWK.O.10.80.37	Hose	591	75	90	286	234	566	680	134	253	81
	Flange	591	75	90	221	234	566	680	134	253	81

With 10 m cable

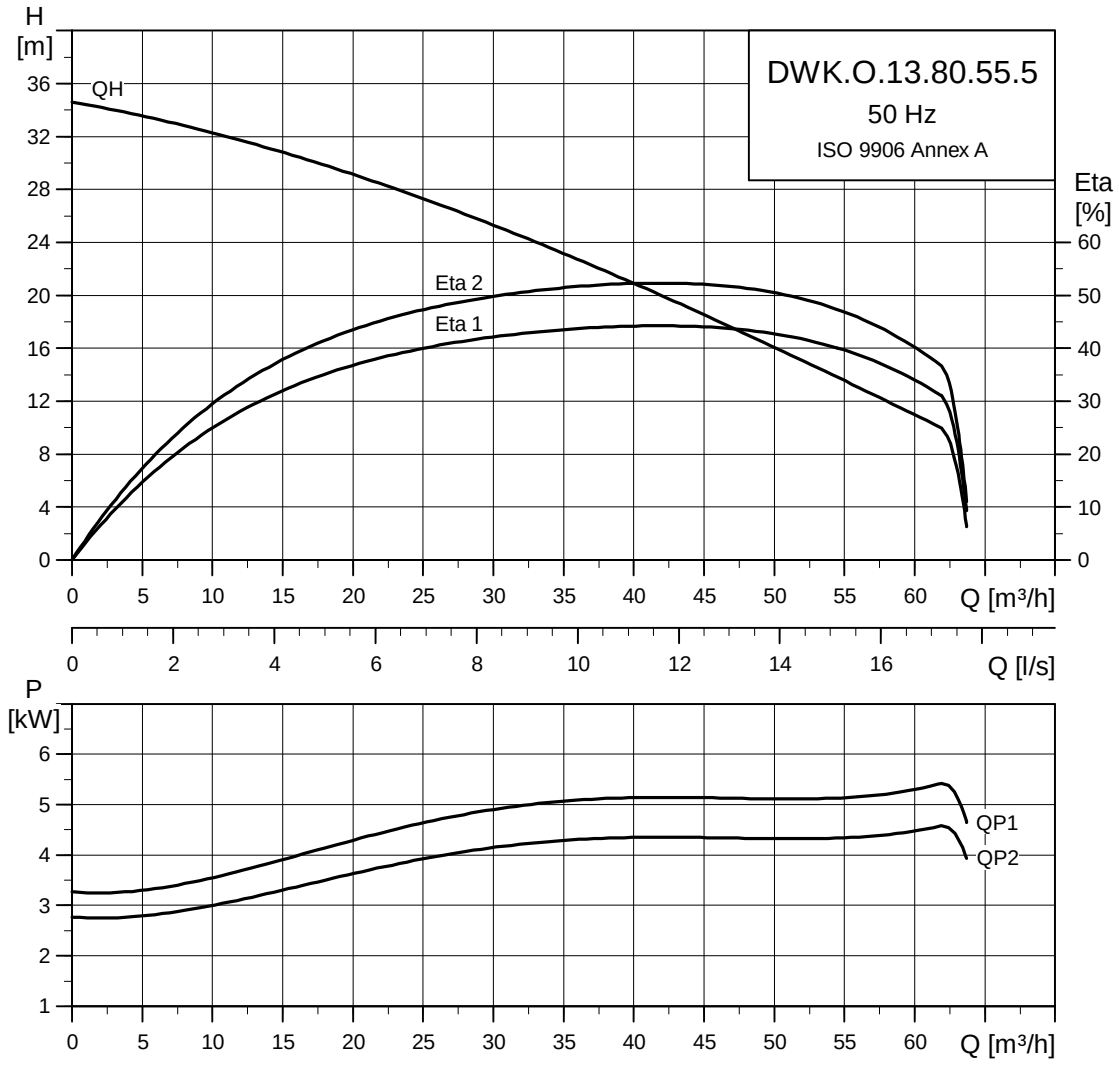
Electrical data

Pump type	Voltage [V]	P2 [kW]	RPM	Starting method	I_N	η_{motor} [%]			Cos φ			Cable
					[A]	1/2	3/4	1/1	1/2	3/4	1/1	
DWK.O.10.80.37.5.0D	3 x 380-415 V Y	3.7	2850	DOL	8.2	80.2	81.9	82.5	0.725	0.799	0.83	4 x 1.5 mm^2 + 4 x 1 mm^2
DWK.O.10.80.37.5.0E	3 x 220-240 V D	3.7	2850	DOL	14.2	80.2	81.9	82.5	0.725	0.799	0.83	4 x 2.5 mm^2 + 4 x 1 mm^2
DWK.O.10.80.37.5.0D.R	3 x 380-415 V Y	3.7	2850	DOL	8.2	80.2	81.9	82.5	0.725	0.799	0.83	4 x 1.5 mm^2
DWK.O.10.80.37.5.0E.R	3 x 220-240 V D	3.7	2850	DOL	14.2	80.2	81.9	82.5	0.725	0.799	0.83	4 x 2.5 mm^2 + 4 x 1 mm^2

Pump data

Pump type	Impeller type	Max. solids size [mm]	Max . number of starts per hour	Max. installation depth [m]	Enclosure class	Insulation class	Max. liquid temperature [°C]	pH
DWK.O.10.80.37.5	Semi-open	10	30	25	68	F	40	4-10

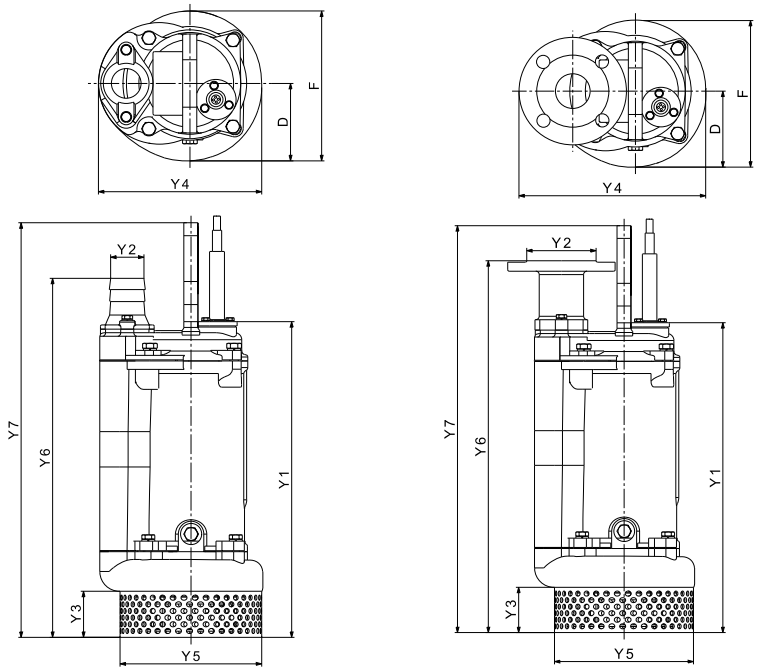
Performance curves DWK.O.13.80.55.5



TM04 2925 1409

Performance curves/ Technical data

Dimensional sketches



TM04 4147 0909/TM04 4149 0909

Dimensions

Pump type	Connection type	Y1	Y2	Y3	Y4	Y5	Y6	Y7	D	F	Weight [kg]
DWK.O.13.80.55	Hose	734	75	116	353	302	709	-	177	323	110
	Flange	734	75	116	288	302	709	-	177	323	110

With 10 m cable

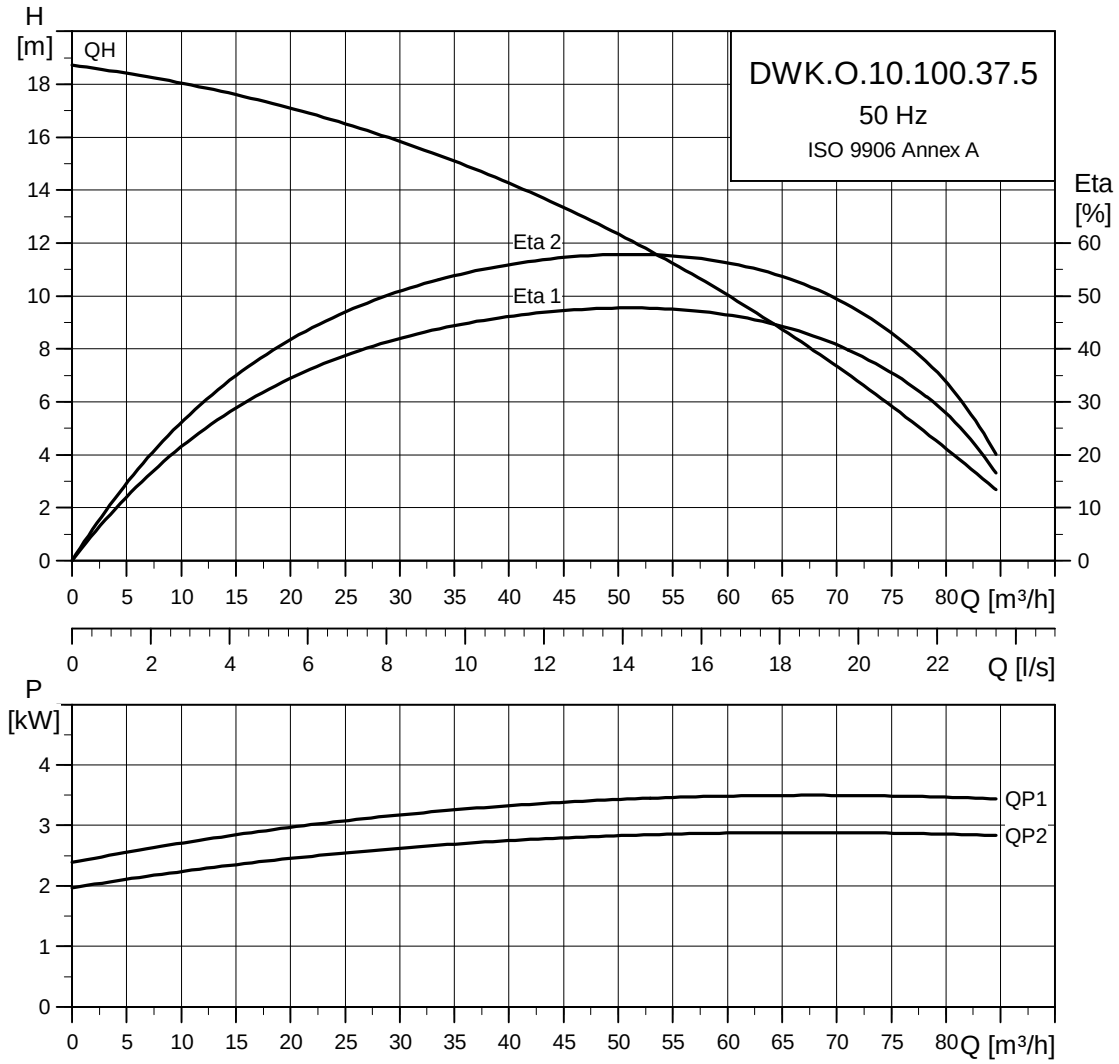
Electrical data

Pump type	Voltage [V]	P2 [kW]	RPM	Starting method	I_N	η_{motor} [%]			Cos φ			Cable
					[A]	1/2	3/4	1/1	1/2	3/4	1/1	
DWK.O.13.80.55.5.0D	3 x 380-415 V Y	5.5	2850	DOL	11.9	82.2	84	84.6	0.725	0.799	0.83	4 x 2.5 mm^2 + 4 x 1 mm^2
DWK.O.13.80.55.5.0E	3 x 220-240 V D	5.5	2850	DOL	20	82.2	84	84.6	0.725	0.799	0.83	4 x 4.0 mm^2 + 4 x 1 mm^2
DWK.O.13.80.55.5.0D.R	3 x 380-415 V Y	5.5	2850	DOL	11.9	82.2	84	84.6	0.725	0.799	0.83	4 x 2.5 mm^2 + 4 x 1 mm^2
DWK.O.13.80.55.5.0E.R	3 x 220-240 V D	5.5	2850	DOL	20	82.2	84	84.6	0.725	0.799	0.83	4 x 4.0 mm^2 + 4 x 1 mm^2
DWK.O.13.80.55.5.1D	3 x 380-415 V Y	5.5	2850	Y/D	11.9	82.2	84	84.6	0.725	0.799	0.83	7 x 4.0 mm^2 + 4 x 1 mm^2
DWK.O.13.80.55.5.1E	3 x 220-240 V D	5.5	2850	Y/D	20	82.2	84	84.6	0.725	0.799	0.83	7 x 4.0 mm^2 + 4 x 1 mm^2
DWK.O.13.80.55.5.1D.R	3 x 380-415 V Y	5.5	2850	Y/D	11.9	82.2	84	84.6	0.725	0.799	0.83	7 x 4.0 mm^2 + 4 x 1 mm^2
DWK.O.13.80.55.5.1E.R	3 x 220-240 V D	5.5	2850	Y/D	20	82.2	84	84.6	0.725	0.799	0.83	7 x 4.0 mm^2 + 4 x 1 mm^2

Pump data

Pump type	Impeller type	Max. solids size [mm]	Max . number of starts per hour	Max. installation depth [m]	Enclosure class	Insulation class	Max. liquid temperature [°C]	pH
DWK.O.13.80.55.5	Semi-open	13	30	25	68	F	40	4-10

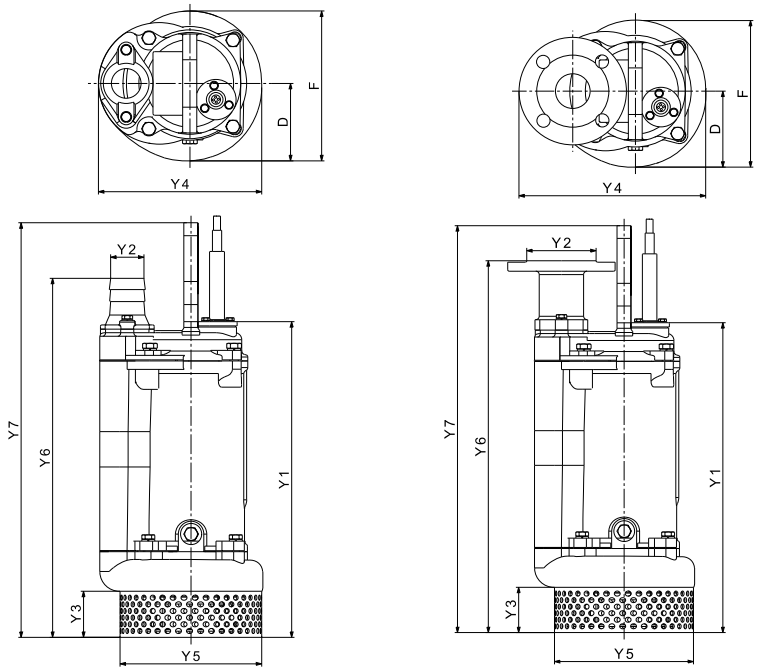
Performance curves DWK.O.10.100.37.5



TM4 2925 1409

Performance curves/ Technical data

Dimensional sketches



TM04 4147 0909/TM04 4149 0909

Dimensions

Pump type	Connection type	Y1	Y2	Y3	Y4	Y5	Y6	Y7	D	F	Weight [kg]
DWK.O.10.100.37	Hose	591	100	90	286	234	566	680	134	253	81
	Flange	591	100	90	221	234	566	680	134	253	81

With 10 m cable

Electrical data

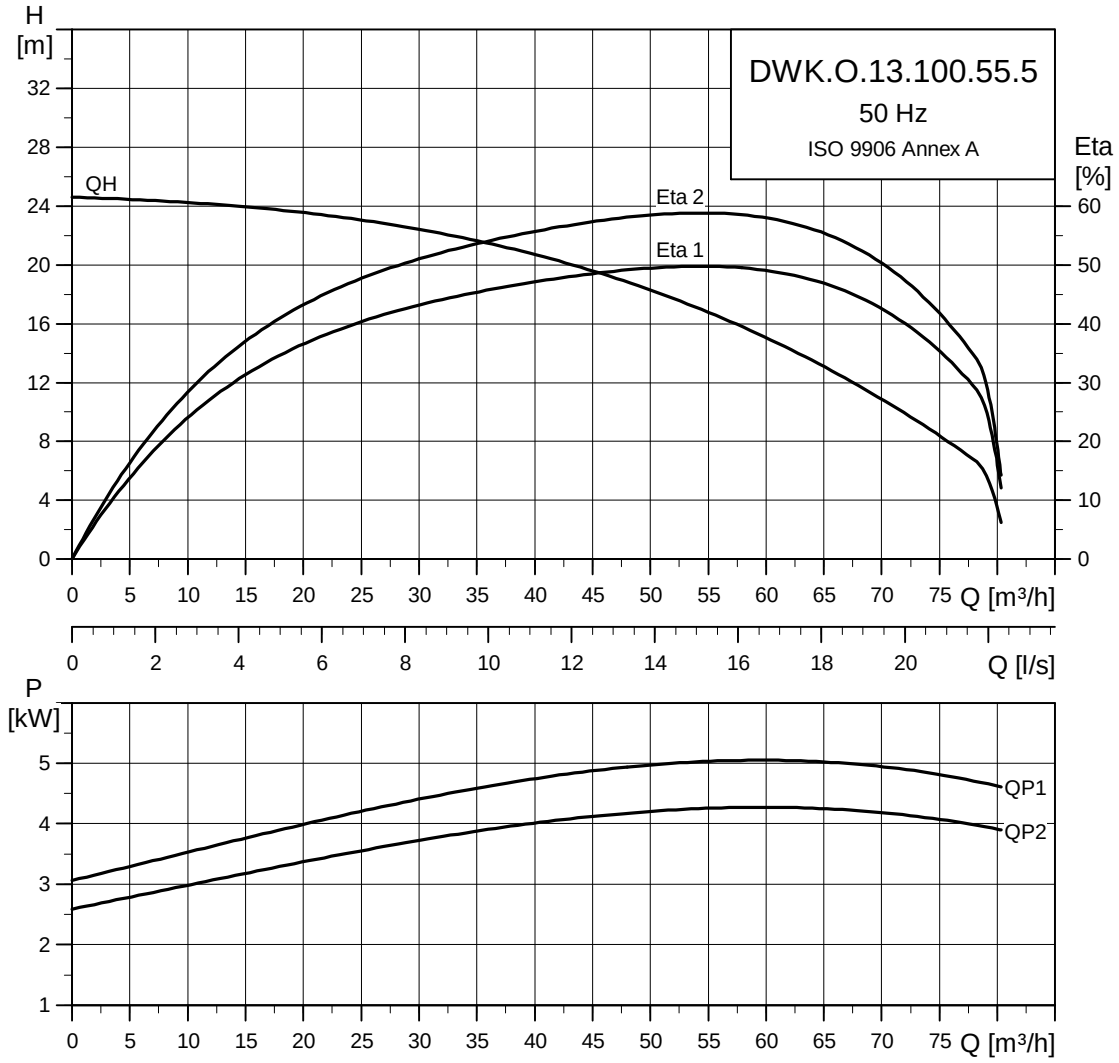
Pump type	Voltage [V]	P2 [kW]	RPM	Starting method	I_N	η_{motor} [%]			Cos φ			Cable
					[A]	1/2	3/4	1/1	1/2	3/4	1/1	
DWK.O.10.100.37.5.0D	3x380-415V Y	3.7	2850	DOL	8.2	80.2	81.9	82.5	0.725	0.799	0.83	4 x 1.5 mm^2 + 4 x 1 mm^2
DWK.O.10.100.37.5.0E	3x220-240V D	3.7	2850	DOL	14.2	80.2	81.9	82.5	0.725	0.799	0.83	4 x 2.5 mm^2 + 4 x 1 mm^2
DWK.O.10.100.37.5.0D.R	3x380-415V Y	3.7	2850	DOL	8.2	80.2	81.9	82.5	0.725	0.799	0.83	4 x 1.5 mm^2
DWK.O.10.100.37.5.0E.R	3x220-240V D	3.7	2850	DOL	14.2	80.2	81.9	82.5	0.725	0.799	0.83	4 x 2.5 mm^2 + 4 x 1 mm^2

Pump data

Pump type	Impeller type	Max. solids size [mm]	Max . number of starts per hour	Max. installation depth [m]	Enclosure class	Insulation class	Max. liquid temperature [°C]	pH
DWK.O.10.100.37	Semi-open	10	30	25	68	F	40	4 - 10

Performance curves/ Technical data

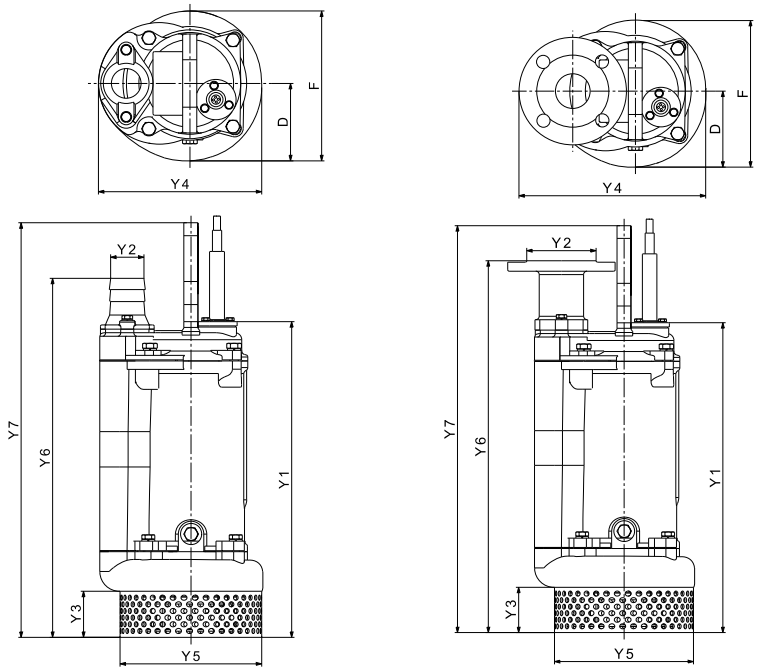
Performance curves DWK.O.13.100.55.5



TM04 2926 1409

Performance curves/ Technical data

Dimensional sketches



TM04 4147 0909/TM04 4149 0909

Dimensions

Pump type	Connection type	Y1	Y2	Y3	Y4	Y5	Y6	Y7	D	F	Weight [kg]
DWK.O.13.100.55	Hose	734	100	116	353	302	709	-	177	323	110
	Flange	734	100	116	288	302	709	-	177	323	110

With 10 m cable

Electrical data

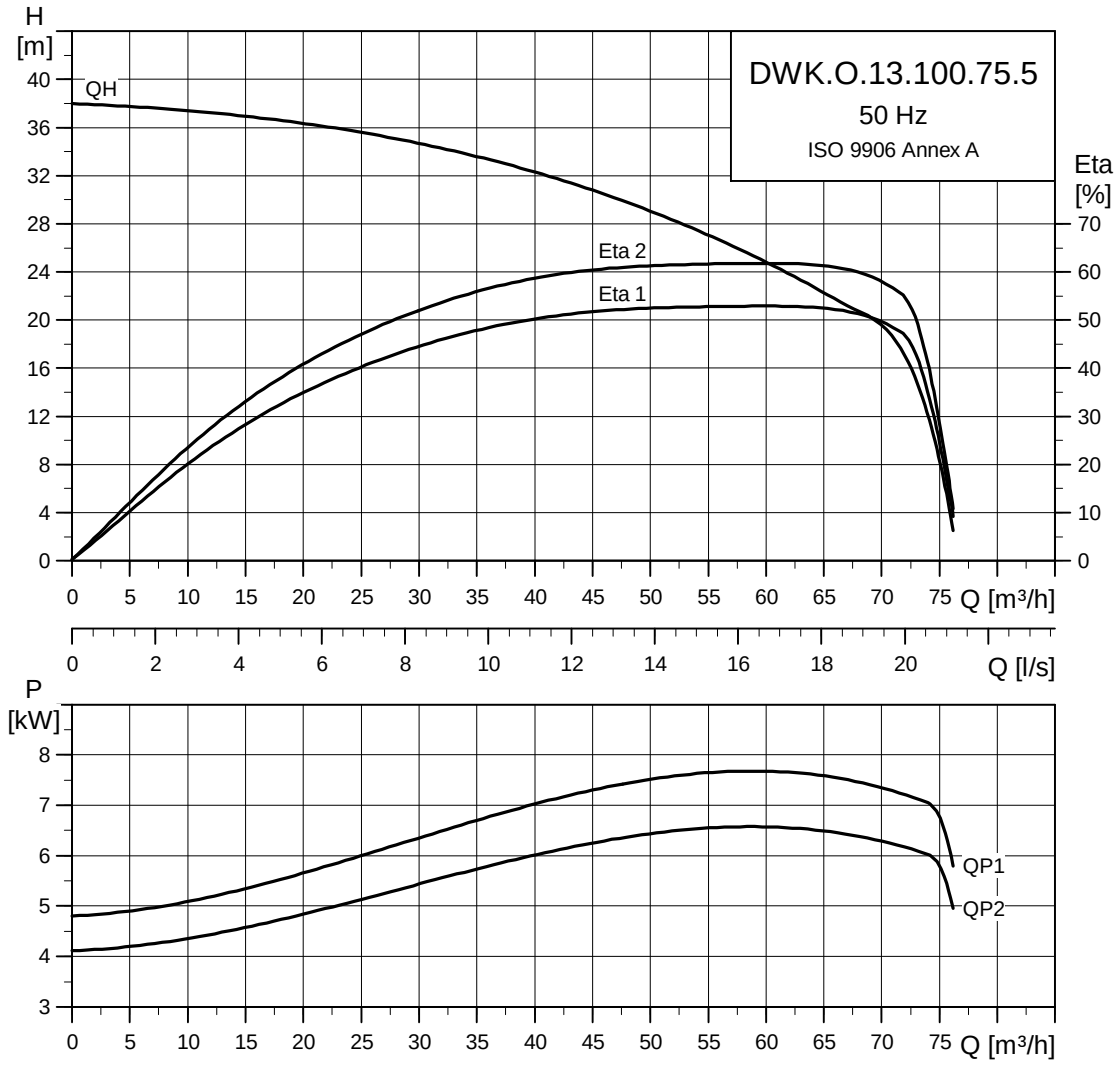
Pump type	Voltage [V]	P2 [kW]	RPM	Starting method	I_N	η_{motor} [%]			Cos φ			Cable
					[A]	1/2	3/4	1/1	1/2	3/4	1/1	
DWK.O.13.100.55.5.0D	3 x 380-415 V Y	5.5	2850	DOL	11.9	82.2	84	84.6	0.725	0.799	0.83	4 x 2.5 mm^2 + 4 x 1 mm^2
DWK.O.13.100.55.5.0E	3 x 220-240 V D	5.5	2850	DOL	20	82.2	84	84.6	0.725	0.799	0.83	4 x 4.0 mm^2 + 4 x 1 mm^2
DWK.O.13.100.55.5.0D.R	3 x 380-415 V Y	5.5	2850	DOL	11.9	82.2	84	84.6	0.725	0.799	0.83	4 x 2.5 mm^2 + 4 x 1 mm^2
DWK.O.13.100.55.5.0E.R	3 x 220-240 V D	5.5	2850	DOL	20	82.2	84	84.6	0.725	0.799	0.83	4 x 4.0 mm^2 + 4 x 1 mm^2
DWK.O.13.100.55.5.1D	3 x 380-415 V Y	5.5	2850	Y/D	11.9	82.2	84	84.6	0.725	0.799	0.83	7 x 4.0 mm^2 + 4 x 1 mm^2
DWK.O.13.100.55.5.1E	3 x 220-240 V D	5.5	2850	Y/D	20	82.2	84	84.6	0.725	0.799	0.83	7 x 4.0 mm^2 + 4 x 1 mm^2
DWK.O.13.100.55.5.1D.R	3 x 380-415 V Y	5.5	2850	Y/D	11.9	82.2	84	84.6	0.725	0.799	0.83	7 x 4.0 mm^2 + 4 x 1 mm^2
DWK.O.13.100.55.5.1E.R	3 x 220-240 V D	5.5	2850	Y/D	20	82.2	84	84.6	0.725	0.799	0.83	7 x 4.0 mm^2 + 4 x 1 mm^2

Pump data

Pump type	Impeller type	Max. solids size [mm]	Max . number of starts per hour	Max. installation depth [m]	Enclosure class	Insulation class	Max. liquid temperature [°C]	pH
DWK.O.13.100.55	Semi-open	13	30	25	68	F	40	4-10

Performance curves/ Technical data

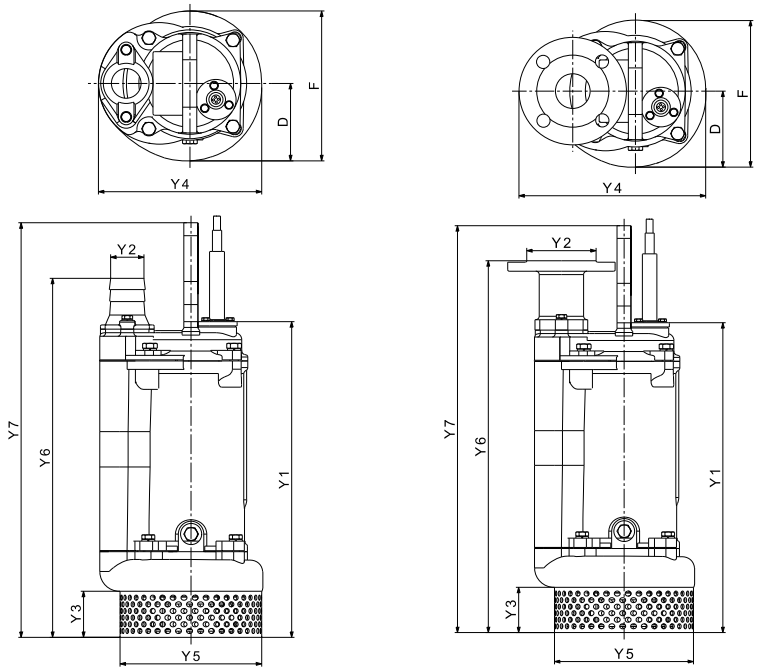
Performance curves DWK.O13.100.75.5



TM04 2927 1409

Performance curves/ Technical data

Dimensional sketches



TM04 4147 0909/TM04 4149 0909

Dimensions

Pump type	Connection type	Y1	Y2	Y3	Y4	Y5	Y6	Y7	D	F	Weight [kg]
DWK.O.13.100.75	Hose	734	100	116	353	302	709	-	177	323	156
	Flange	734	100	116	288	302	709	-	177	323	156

With 10 m cable

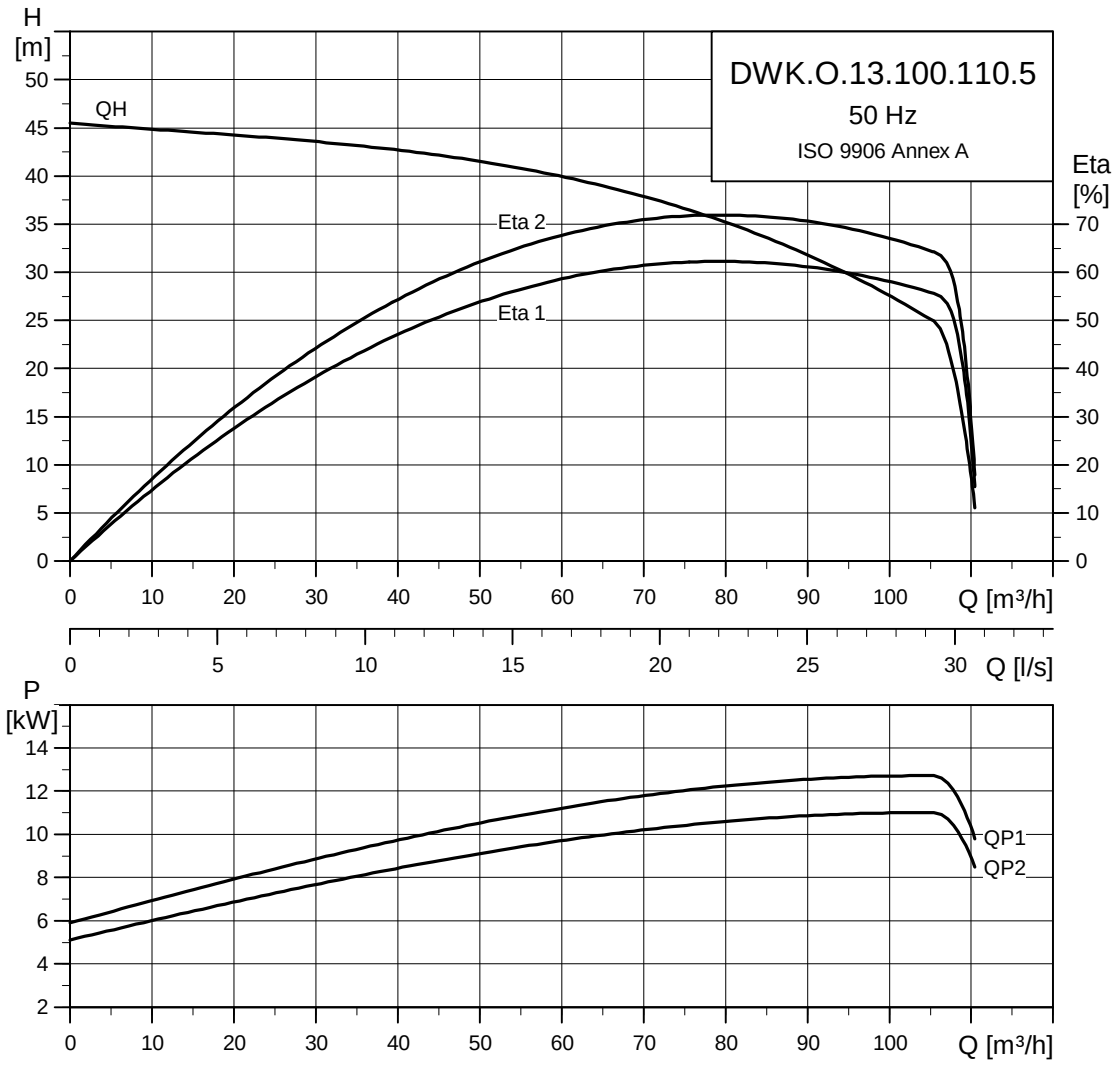
Electrical data

Pump type	Voltage [V]	P2 [kW]	RPM	Starting method	I_N	η_{motor} [%]			Cos φ			Cable
					[A]	1/2	3/4	1/1	1/2	3/4	1/1	
DWK.O.13.100.75.5.0D	3 x 380-415 V Y	7.5	2850	DOL	16	83.2	85	85.6	0.725	0.799	0.83	4 x 4.0 mm^2 + 4 x 1 mm^2
DWK.O.13.100.75.5.0E	3 x 220-240V D	7.5	2850	DOL	27	83.2	85	85.6	0.725	0.799	0.83	4 x 6.0 mm^2 + 4 x 1 mm^2
DWK.O.13.100.75.5.0D.R	3 x 380-415 V Y	7.5	2850	DOL	16	83.2	85	85.6	0.725	0.799	0.83	4 x 4.0 mm^2 + 4 x 1 mm^2
DWK.O.13.100.75.5.0E.R	3 x 220-240 V D	7.5	2850	DOL	27	83.2	85	85.6	0.725	0.799	0.83	4 x 6.0 mm^2 + 4 x 1 mm^2
DWK.O.13.100.75.5.1D	3 x 380-415 V Y	7.5	2850	Y/D	16	83.2	85	85.6	0.725	0.799	0.83	7 x 4.0 mm^2 + 4 x 1 mm^2
DWK.O.13.100.75.5.1E	3 x 220-240 V D	7.5	2850	Y/D	27	83.2	85	85.6	0.725	0.799	0.83	7 x 4.0 mm^2 + 4 x 1 mm^2
DWK.O.13.100.75.5.1D.R	3 x 380-415 V Y	7.5	2850	Y/D	16	83.2	85	85.6	0.725	0.799	0.83	7 x 4.0 mm^2 + 4 x 1 mm^2
DWK.O.13.100.75.5.1E.R	3 x 220-240 V D	7.5	2850	Y/D	27	83.2	85	85.6	0.725	0.799	0.83	7 x 4.0 mm^2 + 4 x 1 mm^2

Pump data

Pump type	Impeller type	Max. solids size [mm]	Max . number of starts per hour	Max. installation depth [m]	Enclosure class	Insulation class	Max. liquid temperature [°C]	pH
DWK.O.13.100.75	Semi-open	13	30	25	68	F	40	4-10

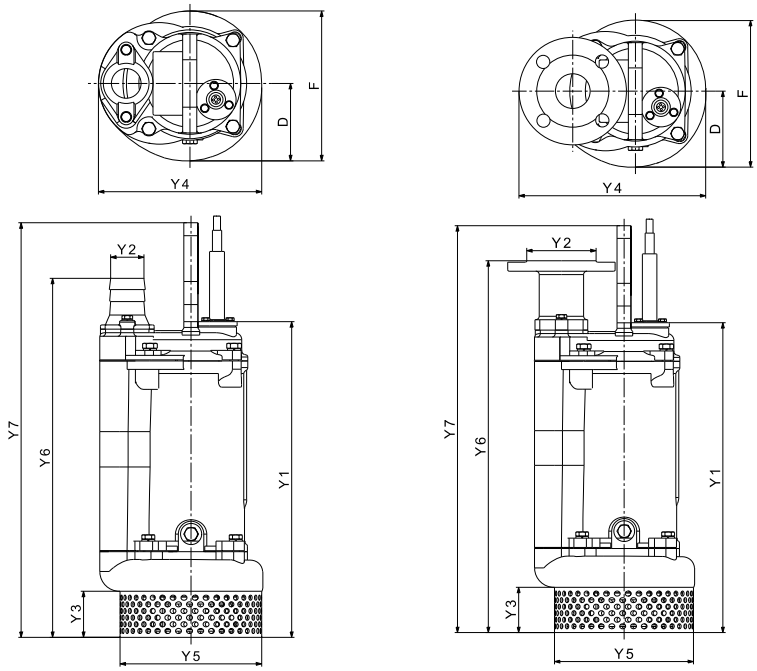
Performance curves DWK.O.13.100.110.5



TM04 2928 1409

Performance curves/ Technical data

Dimensional sketches



TM04 4147 0909/TM04 4149 0909

Dimensions

Pump type	Connection type	Y1	Y2	Y3	Y4	Y5	Y6	Y7	D	F	Weight [kg]
DWK.O.13.100.110.5	Hose	779	100	116	353	302	754	-	177	323	190
	Flange	779	100	116	288	302	754	-	177	323	190

With 10 m cable

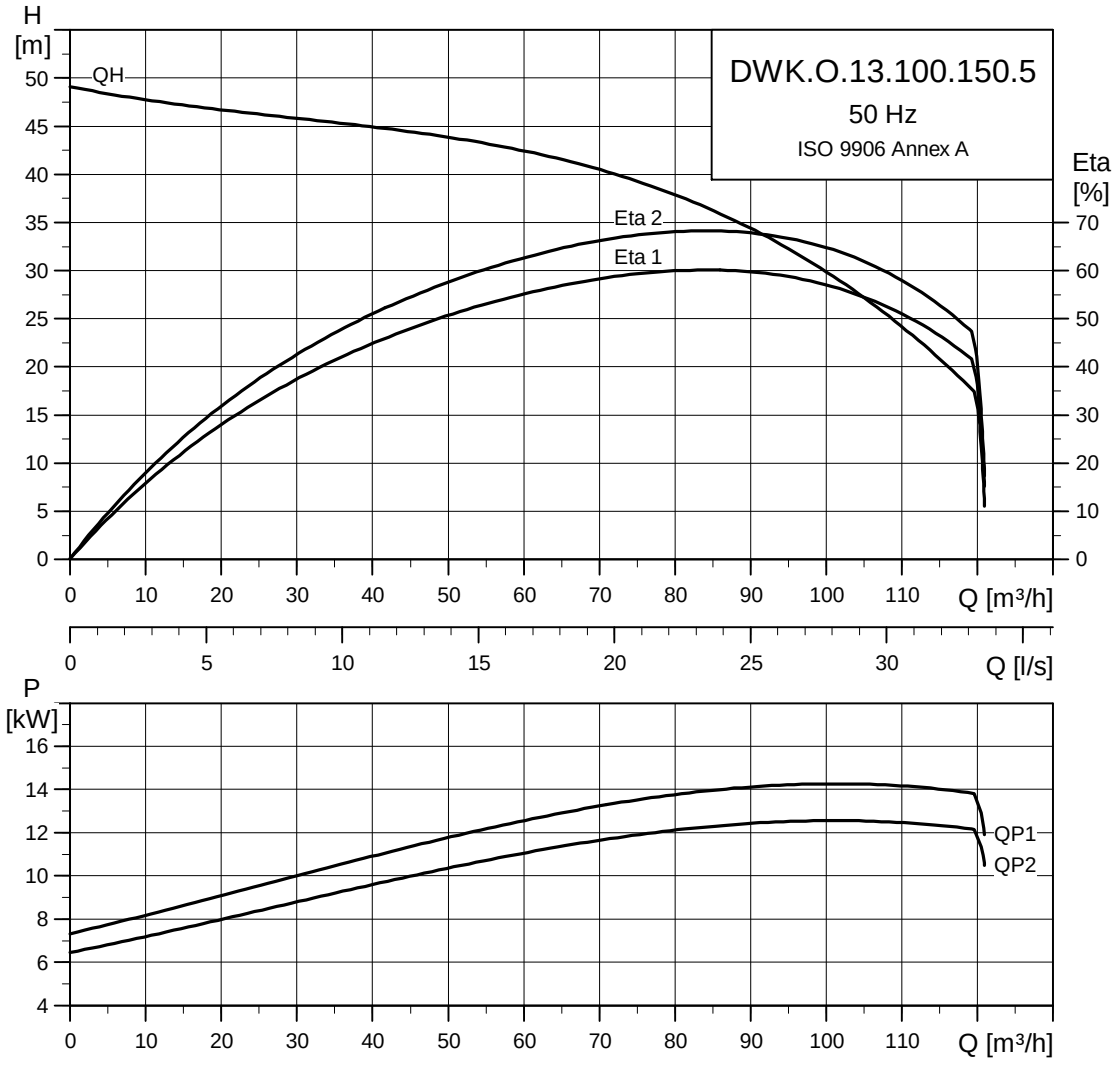
Electrical data

Pump type	Voltage [V]	P2 [kW]	RPM	Starting method	I_N	η_{motor} [%]			Cos φ			Cable
					[A]	1/2	3/4	1/1	1/2	3/4	1/1	
DWK.O.13.100.110.5.0D	3 x 380-415 V Y	11	2850	DOL	23	84.2	86	86.6	0.727	0.801	0.832	4 x 6.0 mm^2 + 4 x 1 mm^2
DWK.O.13.100.110.5.0E	3 x 220-240 V D	11	2850	DOL	40	84.2	86	86.6	0.727	0.801	0.832	4 x 10.0 mm^2 + 6 x 1 mm^2
DWK.O.13.100.110.5.0D.R	3 x 380-415 V Y	11	2850	DOL	23	84.2	86	86.6	0.727	0.801	0.832	4 x 6.0 mm^2 + 4 x 1 mm^2
DWK.O.13.100.110.5.0E.R	3 x 220-240 V D	11	2850	DOL	40	84.2	86	86.6	0.727	0.801	0.832	4 x 10.0 mm^2 + 6 x 1 mm^2
DWK.O.13.100.110.5.1D	3 x 380-415 V Y	11	2850	Y/D	23	84.2	86	86.6	0.727	0.801	0.832	7 x 4.0 mm^2 + 4 x 1 mm^2
DWK.O.13.100.110.5.1E	3 x 220-240 V D	11	2850	Y/D	40	84.2	86	86.6	0.727	0.801	0.832	7 x 6.0 mm^2 + 6 x 1 mm^2
DWK.O.13.100.110.5.1D.R	3 x 380-415 V Y	11	2850	Y/D	23	84.2	86	86.6	0.727	0.801	0.832	7 x 4.0 mm^2 + 4 x 1 mm^2
DWK.O.13.100.110.5.1E.R	3 x 220-240 V D	11	2850	Y/D	40	84.2	86	86.6	0.727	0.801	0.832	7 x 6.0 mm^2 + 6 x 1 mm^2

Pump data

Pump type	Impeller type	Max. solids size [mm]	Max . number of starts per hour	Max. installation depth [m]	Enclosure class	Insulation class	Max. liquid temperature [°C]	pH
DWK.O.13.100.110.5	Semi-open	13	30	25	68	F	40	4-10

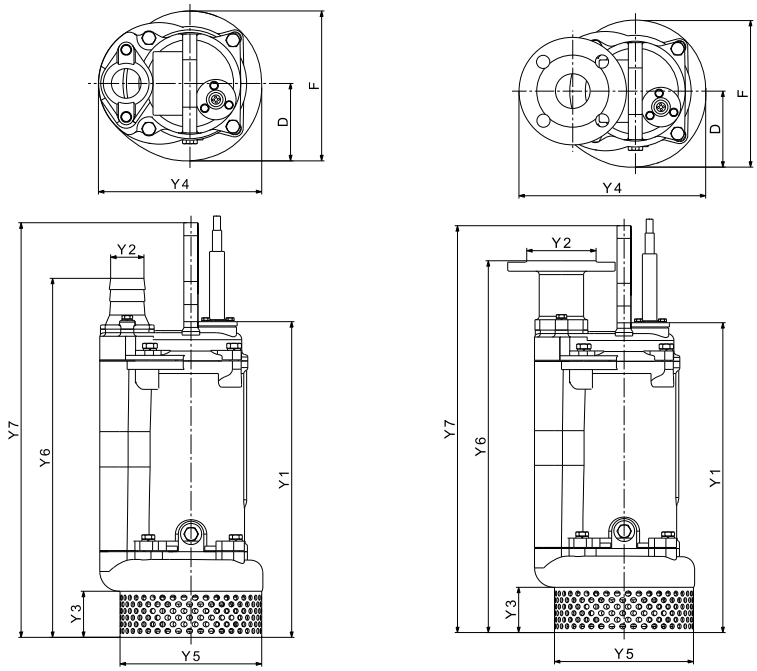
Performance curves DWK.O.13.100.150.5



TM04 2929 1409

Performance curves/ Technical data

Dimensional sketches



TM04 4147 0909/TM04 4149 0909

Dimensions

Pump type	Connection type	Y1	Y2	Y3	Y4	Y5	Y6	Y7	D	F	Weight [kg]
DWK.O.13.100.150	Hose	779	100	116	353	302	754	-	177	323	195
	Flange	779	100	116	288	302	754	-	177	323	195

With 10 m cable

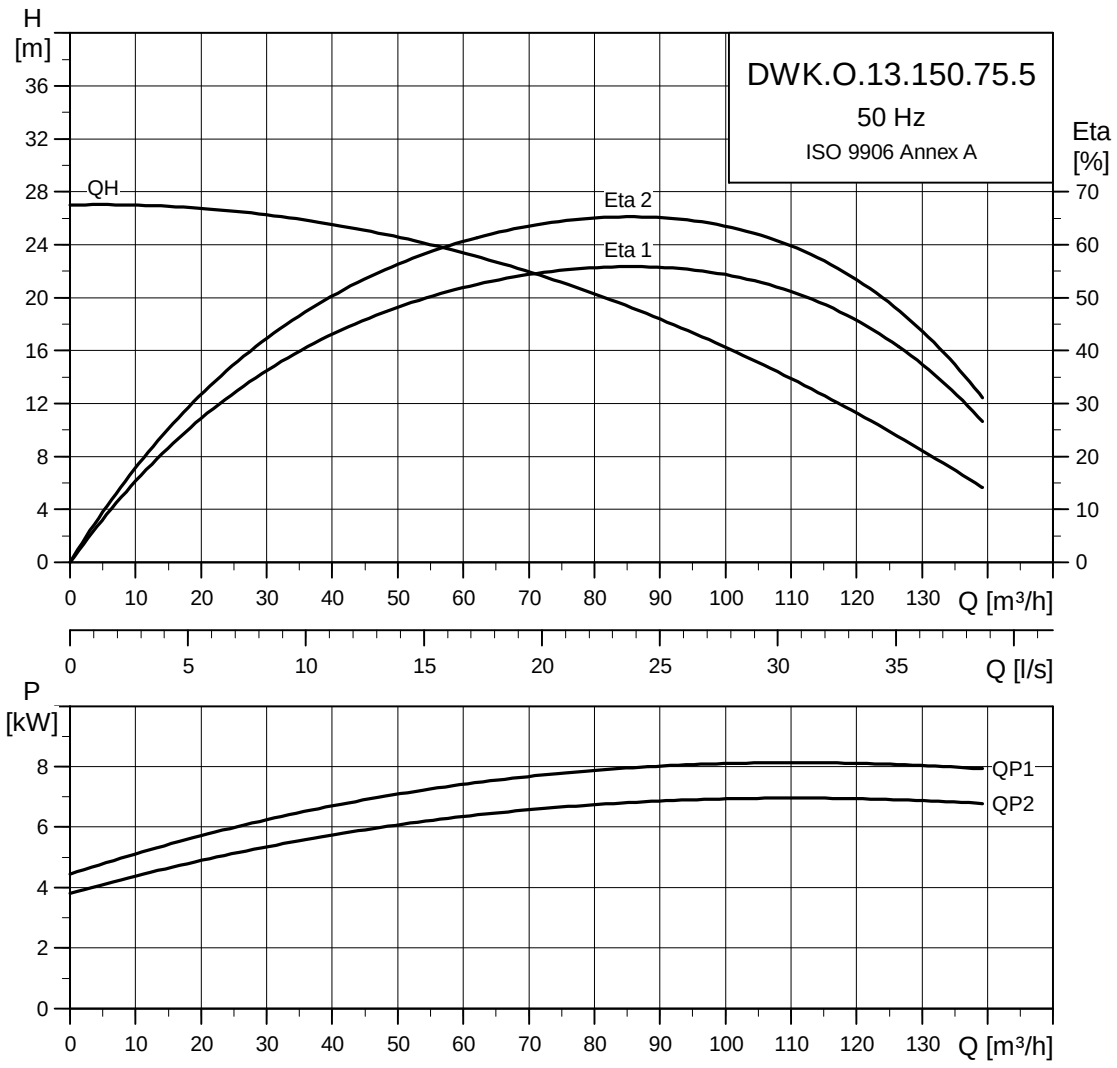
Electrical data

Pump type	Voltage [V]	P2 [kW]	RPM	Starting method	I_N	η_{motor} [%]			Cos φ			Cable
					[A]	1/2	3/4	1/1	1/2	3/4	1/1	
DWK.O.13.100.150.5.0D	3 x 380-415 V Y	15	2850	DOL	31	85.5	87.4	88	0.729	0.804	0.835	4 x 6.0 mm^2 + 4 x 1 mm^2
DWK.O.13.100.150.5.0D.R	3 x 380-415 V Y	15	2850	DOL	31	85.5	87.4	88	0.729	0.804	0.835	4 x 6.0 mm^2 + 4 x 1 mm^2
DWK.O.13.100.150.5.0E	3 x 220-240 V D	15	2850	DOL	31	85.5	87.4	88	0.729	0.804	0.835	4 x 10.0 mm^2 + 6 x 1 mm^2
DWK.O.13.100.150.5.0E.R	3 x 220-240 V D	15	2850	DOL	31	85.5	87.4	88	0.729	0.804	0.835	4 x 10.0 mm^2 + 6 x 1 mm^2
DWK.O.13.100.150.5.1D	3 x 380-415 V Y	15	2850	Y/D	31	85.5	87.4	88	0.729	0.804	0.835	7 x 4.0 mm^2 + 4 x 1 mm^2
DWK.O.13.100.150.5.1E	3 x 220-240 V D	15	2850	Y/D	31	85.5	87.4	88	0.729	0.804	0.835	7 x 6.0 mm^2 + 6 x 1 mm^2
DWK.O.13.100.150.5.1D.R	3 x 380-415 V Y	15	2850	Y/D	31	85.5	87.4	88	0.729	0.804	0.835	7 x 4.0 mm^2 + 4 x 1 mm^2
DWK.O.13.100.150.5.1E.R	3 x 220-240 V D	15	2850	Y/D	31	85.5	87.4	88	0.729	0.804	0.835	7 x 6.0 mm^2 + 6 x 1 mm^2

Pump data

Pump type	Impeller type	Max. solids size [mm]	Max . number of starts per hour	Max. installation depth [m]	Enclosure class	Insulation class	Max. liquid temperature [°C]	pH
DWK.O.13.100.150	Semi-open	13	30	25	68	F	40	4-10

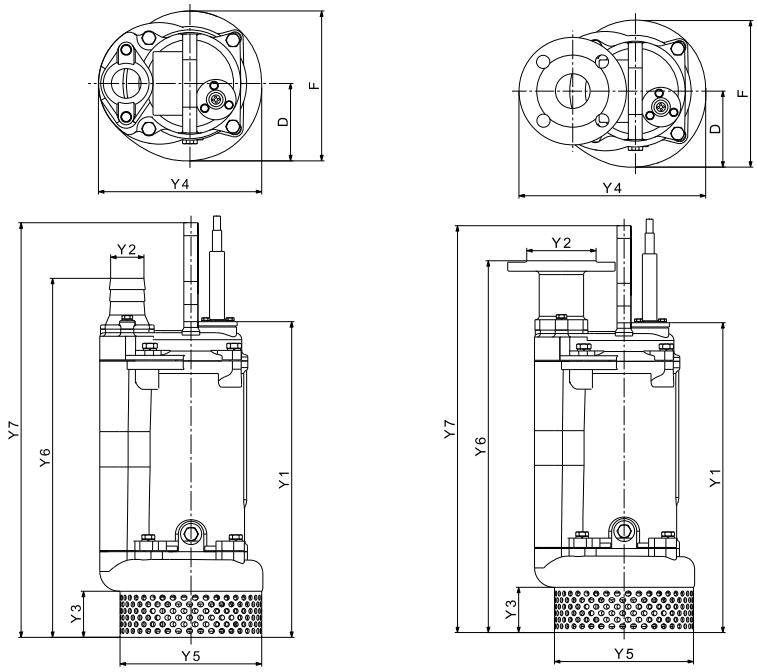
Performance curves DWK.O.13.150.75.5



TM04 2930 1409

Performance curves/ Technical data

Dimensional sketches



TM04 4147 0909/TM04 4149 0909

Dimensions

Pump type	Connection type	Y1	Y2	Y3	Y4	Y5	Y6	Y7	D	F	Weight [kg]
DWK.O.13.150.75	Hose	734	150	116	353	302	709	-	177	323	156
	Flange	734	215	116	288	302	861	-	177	323	156

With 10 m cable

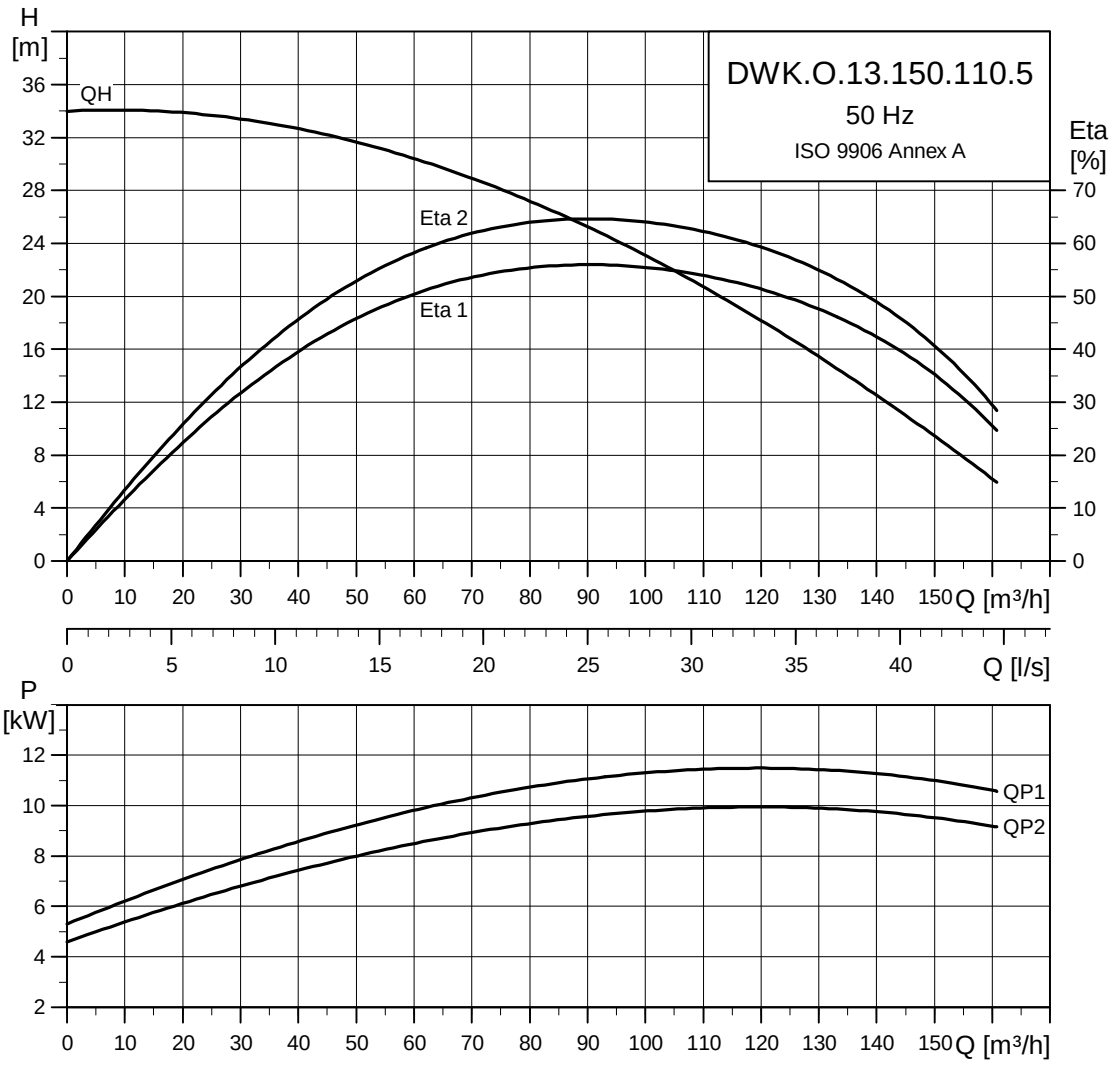
Electrical data

Pump type	Voltage [V]	P2 [kW]	RPM	Starting method	I_N	η_{motor} [%]			Cos φ			Cable
					[A]	1/2	3/4	1/1	1/2	3/4	1/1	
DWK.O.13.150.75.5.0D	3 x 380-415 V Y	7.5	2850	DOL	16	83.2	85	85.6	0.725	0.799	0.83	4 x 4.0 mm^2 + 4 x 1 mm^2
DWK.O.13.150.75.5.0E	3 x 220-240 V D	7.5	2850	DOL	27	83.2	85	85.6	0.725	0.799	0.83	4 x 6.0 mm^2 + 4 x 1 mm^2
DWK.O.13.150.75.5.0D.R	3 x 380-415 V Y	7.5	2850	DOL	16	83.2	85	85.6	0.725	0.799	0.83	4 x 4.0 mm^2 + 4 x 1 mm^2
DWK.O.13.150.75.5.0E.R	3 x 220-240 V D	7.5	2850	DOL	27	83.2	85	85.6	0.725	0.799	0.83	4 x 6.0 mm^2 + 4 x 1 mm^2
DWK.O.13.150.75.5.1D	3 x 380-415 V Y	7.5	2850	Y/D	16	83.2	85	85.6	0.725	0.799	0.83	7 x 4.0 mm^2 + 4 x 1 mm^2
DWK.O.13.150.75.5.1E	3 x 220-240 V D	7.5	2850	Y/D	27	83.2	85	85.6	0.725	0.799	0.83	7 x 4.0 mm^2 + 4 x 1 mm^2
DWK.O.13.150.75.5.1D.R	3 x 380-415 V Y	7.5	2850	Y/D	16	83.2	85	85.6	0.725	0.799	0.83	7 x 4.0 mm^2 + 4 x 1 mm^2
DWK.O.13.150.75.5.1E.R	3 x 220-240 V D	7.5	2850	Y/D	27	83.2	85	85.6	0.725	0.799	0.83	7 x 4.0 mm^2 + 4 x 1 mm^2

Pump data

Pump type	Impeller type	Max. solids size [mm]	Max . number of starts per hour	Max. installation depth [m]	Enclosure class	Insulation class	Max. liquid temperature [°C]	pH
DWK.O.13.150.75	Semi-open	13	30	25	68	F	40	4-10

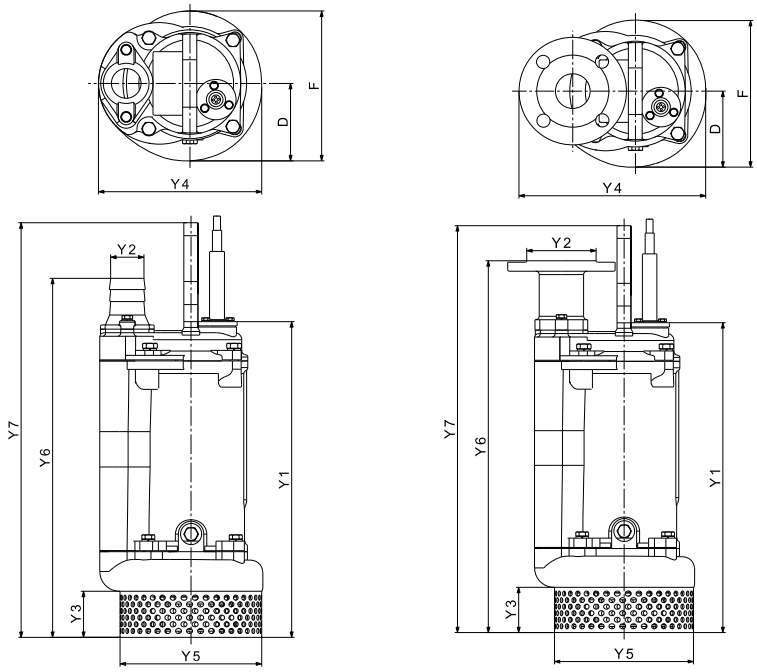
Performance curves DWK.O.13.150.110.5



TM04 2931 1409

Performance curves/ Technical data

Dimensional sketches



TM04 4147 0909/TM04 4149 0909

Dimensions

Pump type	Connection type	Y1	Y2	Y3	Y4	Y5	Y6	Y7	D	F	Weight [kg]
DWK.O.13.150.110	Hose	779	150	116	353	302	754	-	177	323	190
	Flange	779	215	116	288	302	906	-	177	323	190

With 10 m cable

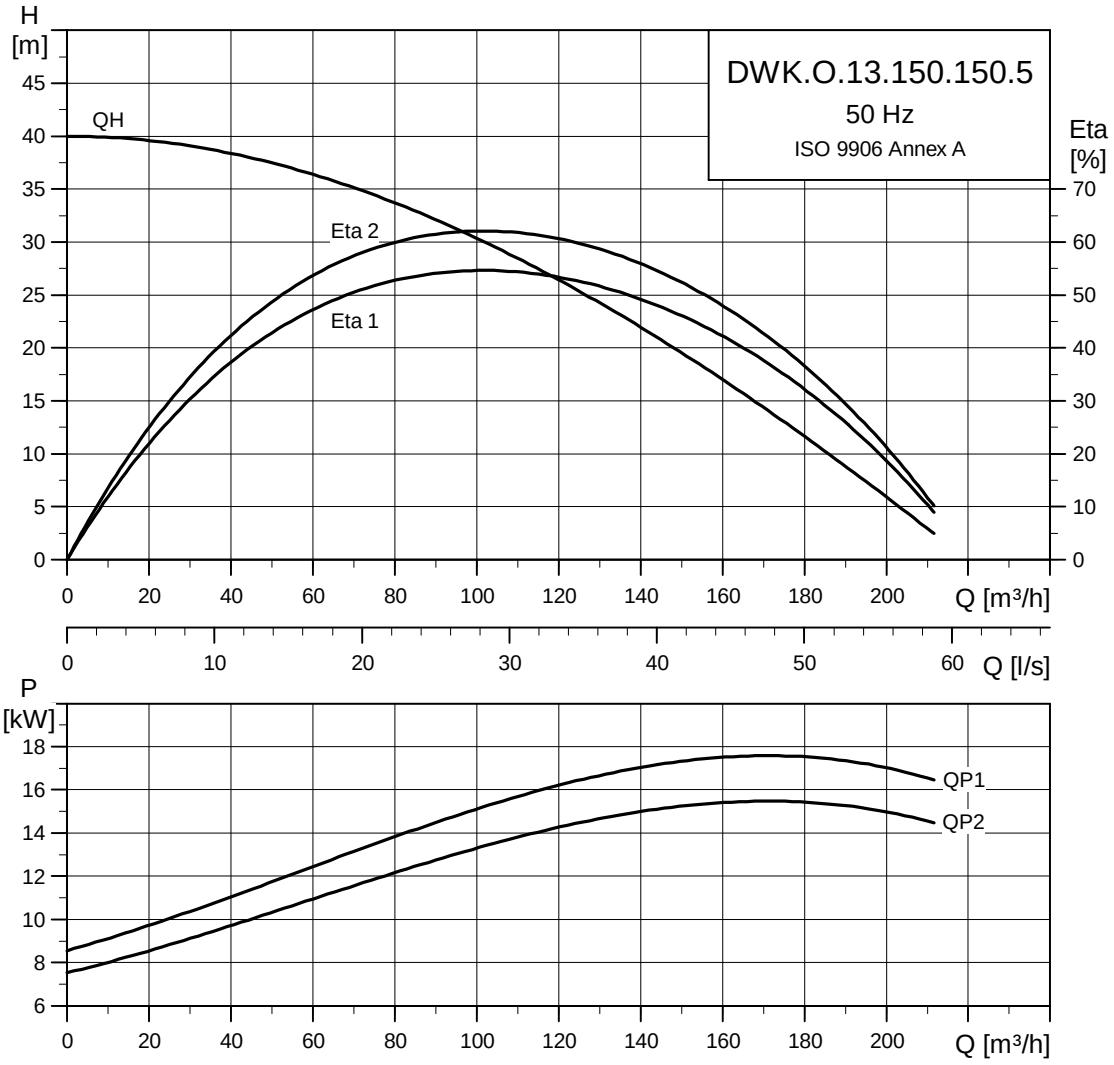
Electrical data

Pump type	Voltage [V]	P2 [kW]	RPM	Starting method	I_N	η_{motor} [%]			Cos φ			Cable
					[A]	1/2	3/4	1/1	1/2	3/4	1/1	
DWK.O.13.150.110.5.0D	3 x 380-415 V Y	11	2850	DOL	23	84.2	86	86.6	0.727	0.801	0.832	4 x 6.0 mm^2 + 4 x 1 mm^2
DWK.O.13.150.110.5.0E	3 x 220-240 V D	11	2850	DOL	40	84.2	86	86.6	0.727	0.801	0.832	4 x 10.0 mm^2 + 6 x 1 mm^2
DWK.O.13.150.110.5.0D.R	3 x 380-415 V Y	11	2850	DOL	23	84.2	86	86.6	0.727	0.801	0.832	4 x 6.0 mm^2 + 4 x 1 mm^2
DWK.O.13.150.110.5.0E.R	3 x 220-240 V D	11	2850	DOL	40	84.2	86	86.6	0.727	0.801	0.832	4 x 10.0 mm^2 + 6 x 1 mm^2
DWK.O.13.150.110.5.1D	3 x 380-415 V Y	11	2850	Y/D	23	84.2	86	86.6	0.727	0.801	0.832	7 x 4.0 mm^2 + 4 x 1 mm^2
DWK.O.13.150.110.5.1E	3 x 220-240 V D	11	2850	Y/D	40	84.2	86	86.6	0.727	0.801	0.832	7 x 6.0 mm ^{2}+ 6 x 1 mm^2
DWK.O.13.150.110.5.1D.R	3 x 380-415 V Y	11	2850	Y/D	23	84.2	86	86.6	0.727	0.801	0.832	7 x 4.0 mm^2 + 4 x 1 mm^2
DWK.O.13.150.110.5.1E.R	3 x 220-240 V D	11	2850	Y/D	40	84.2	86	86.6	0.727	0.801	0.832	7 x 6.0 mm^2 + 6 x 1 mm^2

Pump data

Pump type	Impeller type	Max. solids size [mm]	Max . number of starts per hour	Max. installation depth [m]	Enclosure class	Insulation class	Max. liquid temperature [°C]	pH
DWK.O.13.150.110	Semi-open	13	30	25	68	F	40	4-10

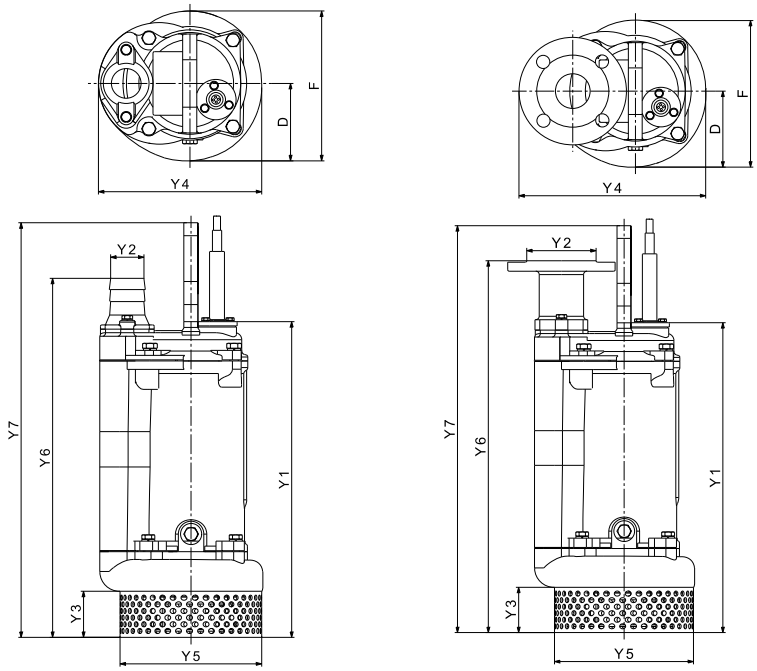
Performance curves DWK.O.13.150.150.5



TM04 2932 1409

Performance curves/ Technical data

Dimensional sketches



TM04 4147 0909/TM04 4149 0909

Dimensions

Pump type	Connection type	Y1	Y2	Y3	Y4	Y5	Y6	Y7	D	F	Weight [kg]
DWK.O.13.150.150	Hose	779	100	116	353	302	754	-	177	323	195
	Flange	779	215	116	288	302	906	-	177	323	195

With 10 m cable

Electrical data

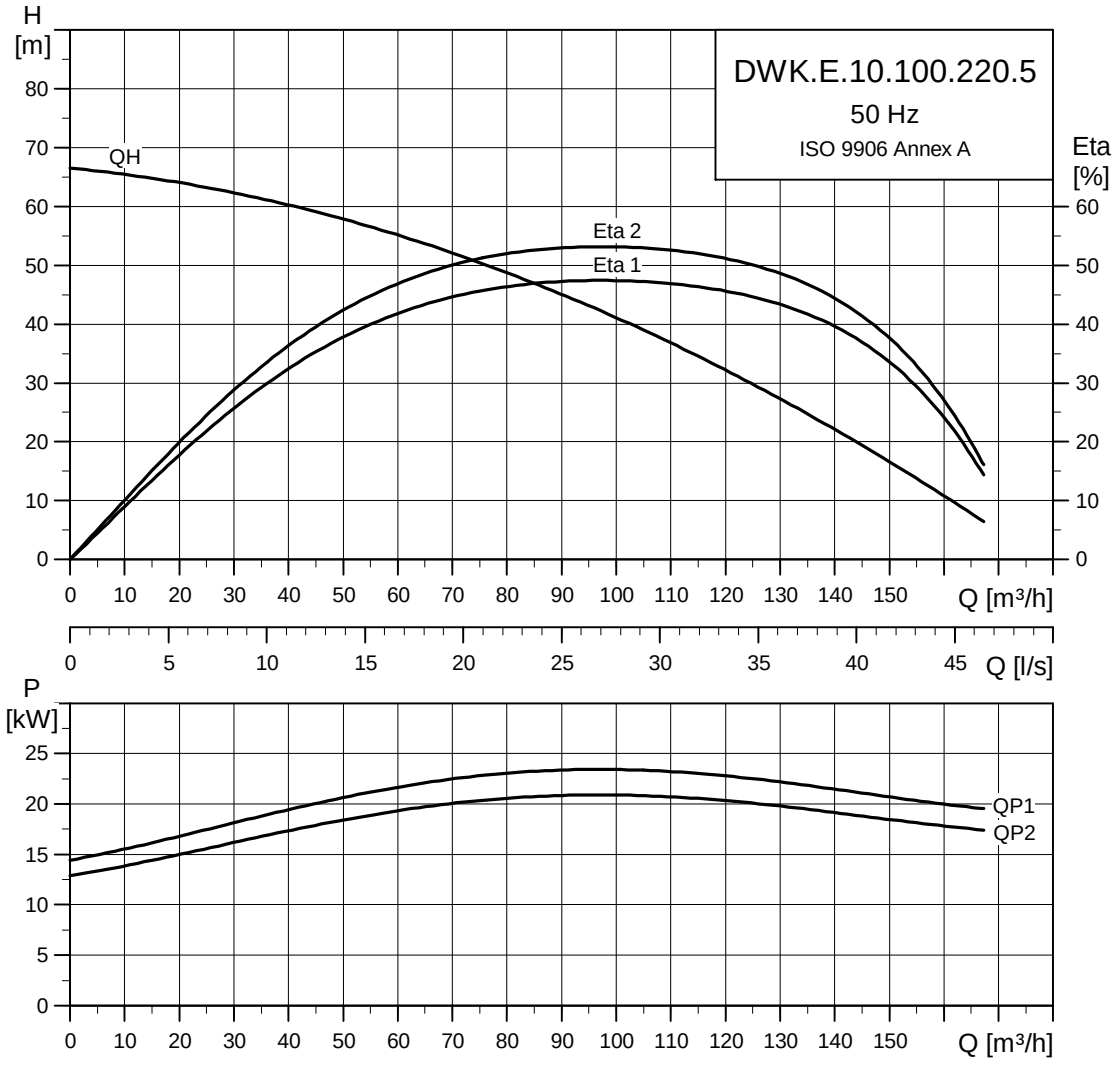
Pump type	Voltage [V]	P2 [kW]	RPM	Starting method	I_N	η_{motor} [%]			Cos φ			Cable
					[A]	1/2	3/4	1/1	1/2	3/4	1/1	
DWK.O.13.150.150.5.0D	3 x 380-415 V Y	15	2850	DOL	31	85.5	87.4	88	0.729	0.804	0.835	4 x 6.0 mm^2 + 4 x 1 mm^2
DWK.O.13.150.150.5.0D.R	3 x 380-415 V Y	15	2850	DOL	31	85.5	87.4	88	0.729	0.804	0.835	4 x 6.0 mm^2 + 4 x 1 mm^2
DWK.O.13.150.150.5.0E	3 x 220-240 V D	15	2850	DOL	31	85.5	87.4	88	0.729	0.804	0.835	4 x 10.0 mm^2 + 6 x 1 mm^2
DWK.O.13.150.150.5.0E.R	3 x 220-240 V D	15	2850	DOL	31	85.5	87.4	88	0.729	0.804	0.835	4 x 10.0 mm^2 + 6 x 1 mm^2
DWK.O.13.150.150.5.1D	3 x 380-415 V Y	15	2850	Y/D	31	85.5	87.4	88	0.729	0.804	0.835	7 x 4.0 mm^2 + 4 x 1 mm^2
DWK.O.13.150.150.5.1E	3 x 220-240 V D	15	2850	Y/D	31	85.5	87.4	88	0.729	0.804	0.835	7 x 6.0 mm^2+ 6 x 1 mm^2
DWK.O.13.150.150.5.1D.R	3 x 380-415 V Y	15	2850	Y/D	31	85.5	87.4	88	0.729	0.804	0.835	7 x 4.0 mm^2 + 4 x 1 mm^2
DWK.O.13.150.150.5.1E.R	3 x 220-240 V D	15	2850	Y/D	31	85.5	87.4	88	0.729	0.804	0.835	7 x 6.0 mm^2 + 6 x 1 mm^2

Pump data

Pump type	Impeller type	Max. solids size [mm]	Max . number of starts per hour	Max. installation depth [m]	Enclosure class	Insulation class	Max. liquid temperature [°C]	pH
DWK.O.13.150.150	Semi-open	13	30	25	68	F	40	4-10

DWK.E

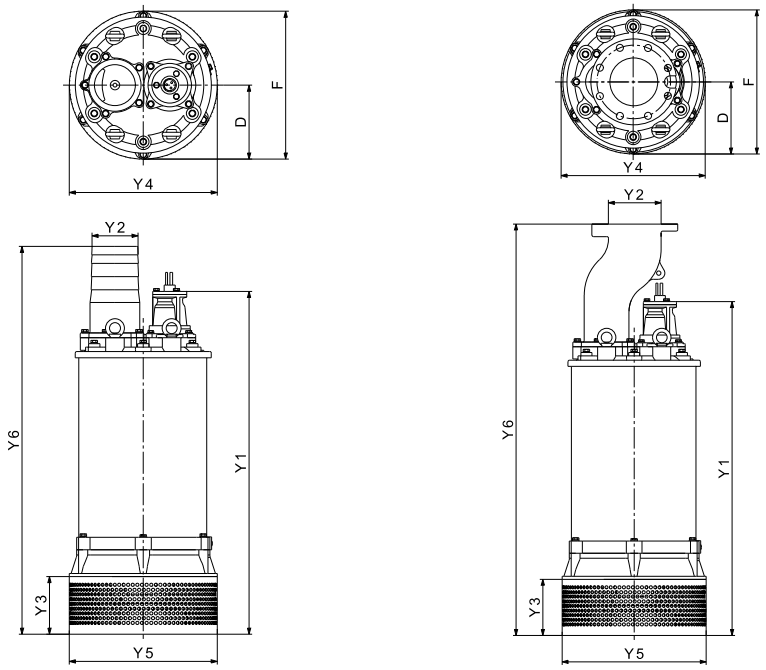
Performance curves DWK.E.10.100.220.5



TM04 2895 1409

Performance curves/ Technical data

Dimensional sketches



TM04 4148 0909/TM04 4150 0909

Dimensions

Pump type	Connection type	Y1	Y2	Y3	Y4	Y5	Y6	D	F	Weight [kg]
DWK.E.10.100.220.5.1E.R	Hose	1099	100	183	470	470	942	235	470	420
DWK.E.10.100.220.5.1D.R										408
DWK.E.10.100.220.5.1E	Flange	1099	100	183	470	470	942	235	470	420
DWK.E.10.100.220.5.1D										408

With 10 m cable

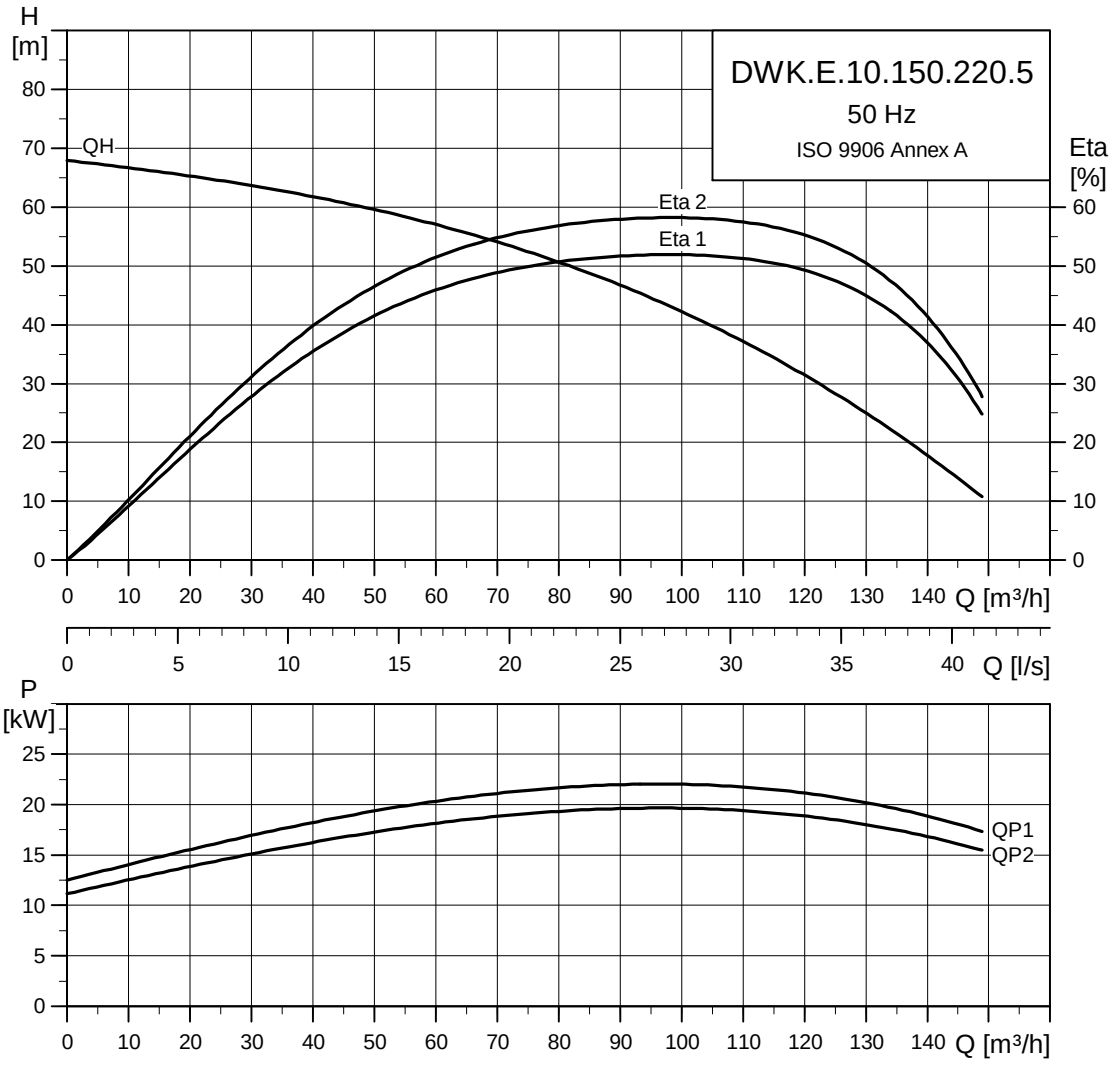
Electrical data

Pump type	Voltage [V]	P2 [kW]	RPM	Starting method	I_N	η_{motor} [%]			Cos φ			Cable
					[A]	1/2	3/4	1/1	1/2	3/4	1/1	
DWK.E.10.100.220.5.1D	3 x 380-415 V Y	22	2850	Y/D	43	86.7	88.6	89.2	0.747	0.824	0.855	7 x 6.0 mm^2 + 6 x 1 mm^2
DWK.E.10.100.220.5.1D.R	3 x 380-415 V Y	22	2850	Y/D	43	86.7	88.6	89.2	0.747	0.824	0.855	7 x 6.0 mm^2 + 6 x 1 mm^2
DWK.E.10.100.220.5.1E	3 x 220-240 V D	22	2850	Y/D	75	86.7	88.6	89.2	0.747	0.824	0.855	7 x 16.0 mm^2 + 6 x 1 mm^2
DWK.E.10.100.220.5.1E.R	3 x 220-240 V D	22	2850	Y/D	75	86.7	88.6	89.2	0.747	0.824	0.855	7 x 16.0 mm^2 + 6 x 1 mm^2

Pump data

Pump type	Impeller type	Max. solids size [mm]	Max . number of starts per hour	Max. installation depth [m]	Enclosure class	Insulation class	Max. liquid temperature [°C]	pH
DWK.E.10.100.220	Enclosed	10	18	25	68	F	40	4-10

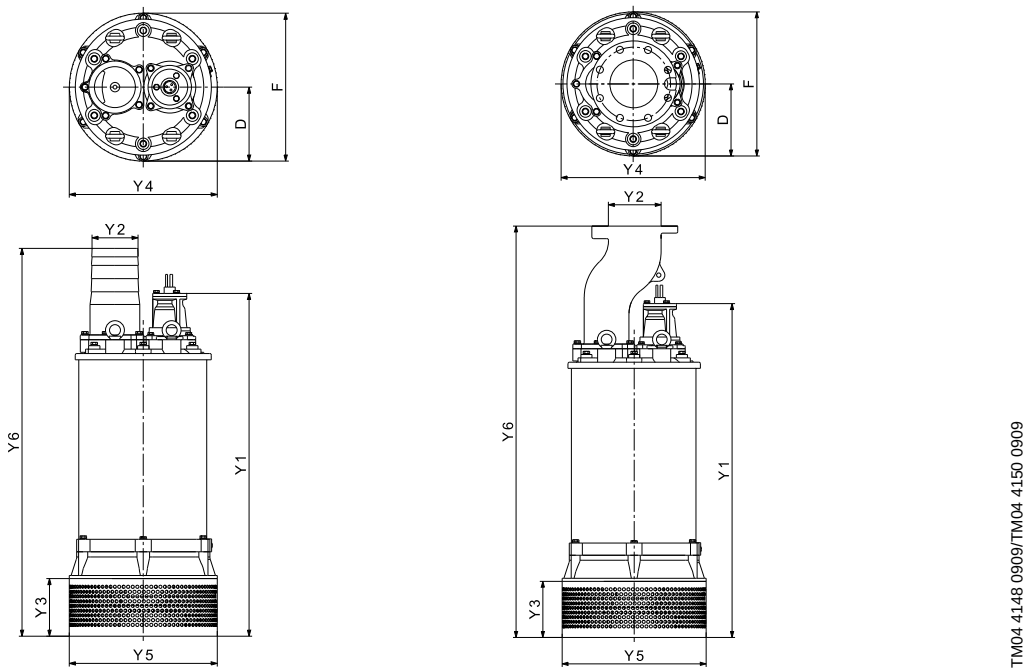
Performance curves DWK.E.10.150.220.5



TM04 2896 1409

Performance curves/ Technical data

Dimensional sketches



TM04 4148 0909/TM04 4150 0909

Dimensions

Pump type	Connection type	Y1	Y2	Y3	Y4	Y5	Y6	D	F	Weight [kg]
DWK.E.10.150.220.5.1E.R	Hose	1099	150	183	470	470	942	235	470	427
DWK.E.10.150.220.5.1D.R										417
DWK.E.10.150.220.5.1E	Flange	1099	100	183	470	470	942	235	470	427
DWK.E.10.150.220.5.1D										417

With 10 m cable

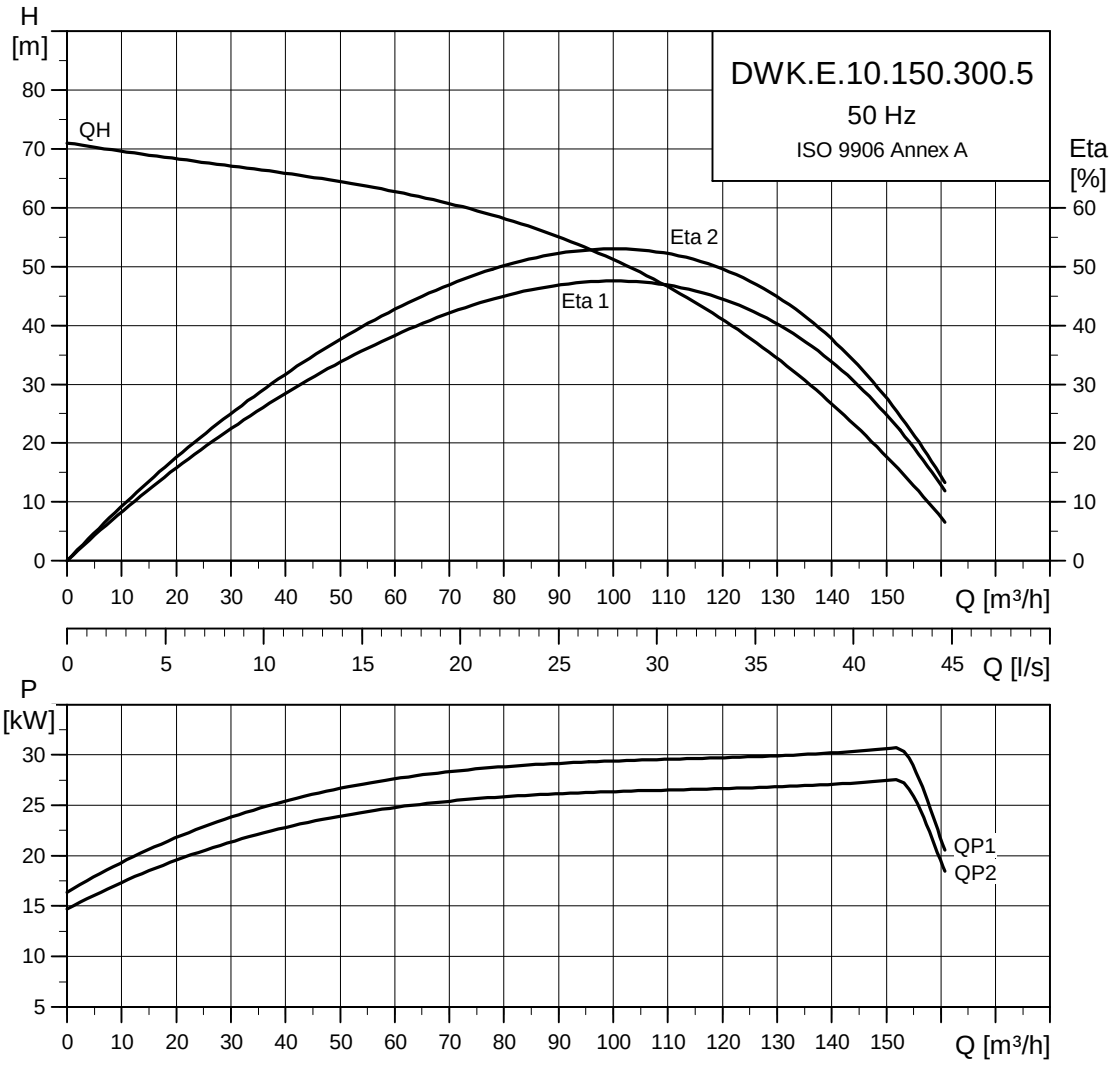
Electrical data

Pump type	Voltage [V]	P2 [kW]	RPM	Starting method	I_N	η_{motor} [%]			Cos φ			Cable
					[A]	1/2	3/4	1/1	1/2	3/4	1/1	
DWK.E.10.150.220.5.1D	3 x 380-415 V Y	22	2850	Y/D	43	86.7	88.6	89.2	0.747	0.824	0.855	7 x 6.0 mm^2 + 6 x 1 mm^2
DWK.E.10.150.220.5.1D.R	3 x 380-415 V Y	22	2850	Y/D	43	86.7	88.6	89.2	0.747	0.824	0.855	7 x 6.0 mm^2 + 6 x 1 mm^2
DWK.E.10.150.220.5.1E	3 x 220-240 V D	22	2850	Y/D	75	86.7	88.6	89.2	0.747	0.824	0.855	7 x 16.0 mm^2 + 6 x 1 mm^2
DWK.E.10.150.220.5.1E.R	3 x 220-240 V D	22	2850	Y/D	75	86.7	88.6	89.2	0.747	0.824	0.855	7 x 16.0 mm^2 + 6 x 1 mm^2

Pump data

Pump type	Impeller type	Max. solids size [mm]	Max . number of starts per hour	Max. installation depth [m]	Enclosure class	Insulation class	Max. liquid temperature [°C]	pH
DWK.E.10.150.220	Enclosed	10	18	25	68	F	40	4-10

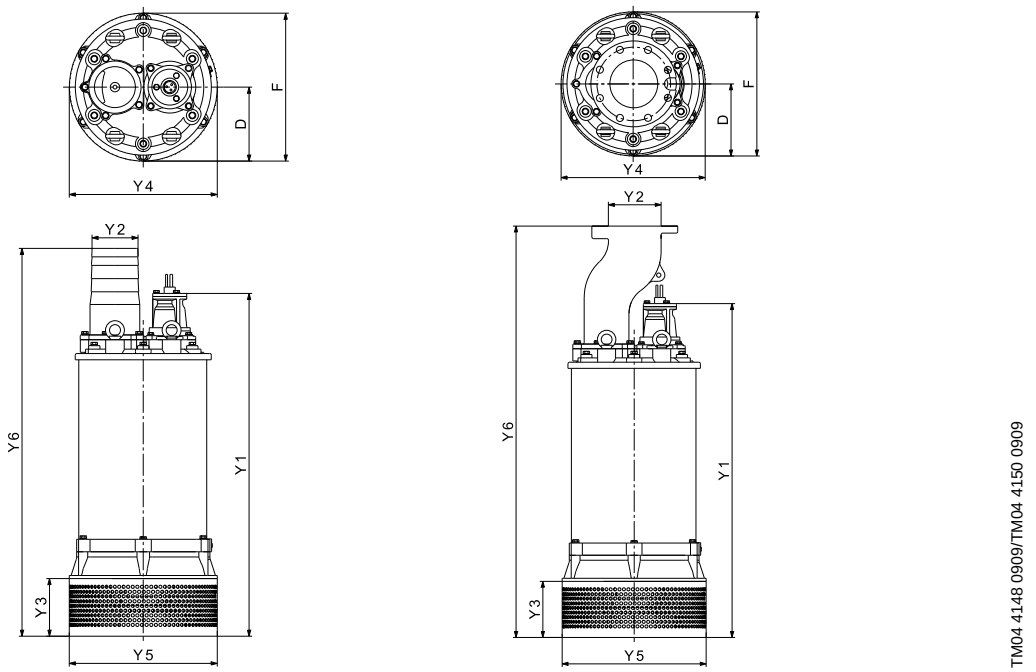
Performance curves DWK.E.10.150.300.5



TM04 2897 1409

Performance curves/ Technical data

Dimensional sketches



Dimensions

Pump type	Connection type	Y1	Y2	Y3	Y4	Y5	Y6	D	F	Weight [kg]
DWK.E.10.150.300.5.1E.R	Hose	1099	150	183	470	470	942	235	470	452
DWK.E.10.150.300.5.1D.R										442
DWK.E.10.150.300.5.1E	Flange	1099	150	183	470	470	942	235	470	452
DWK.E.10.150.300.5.1D										442

With 10 m cable

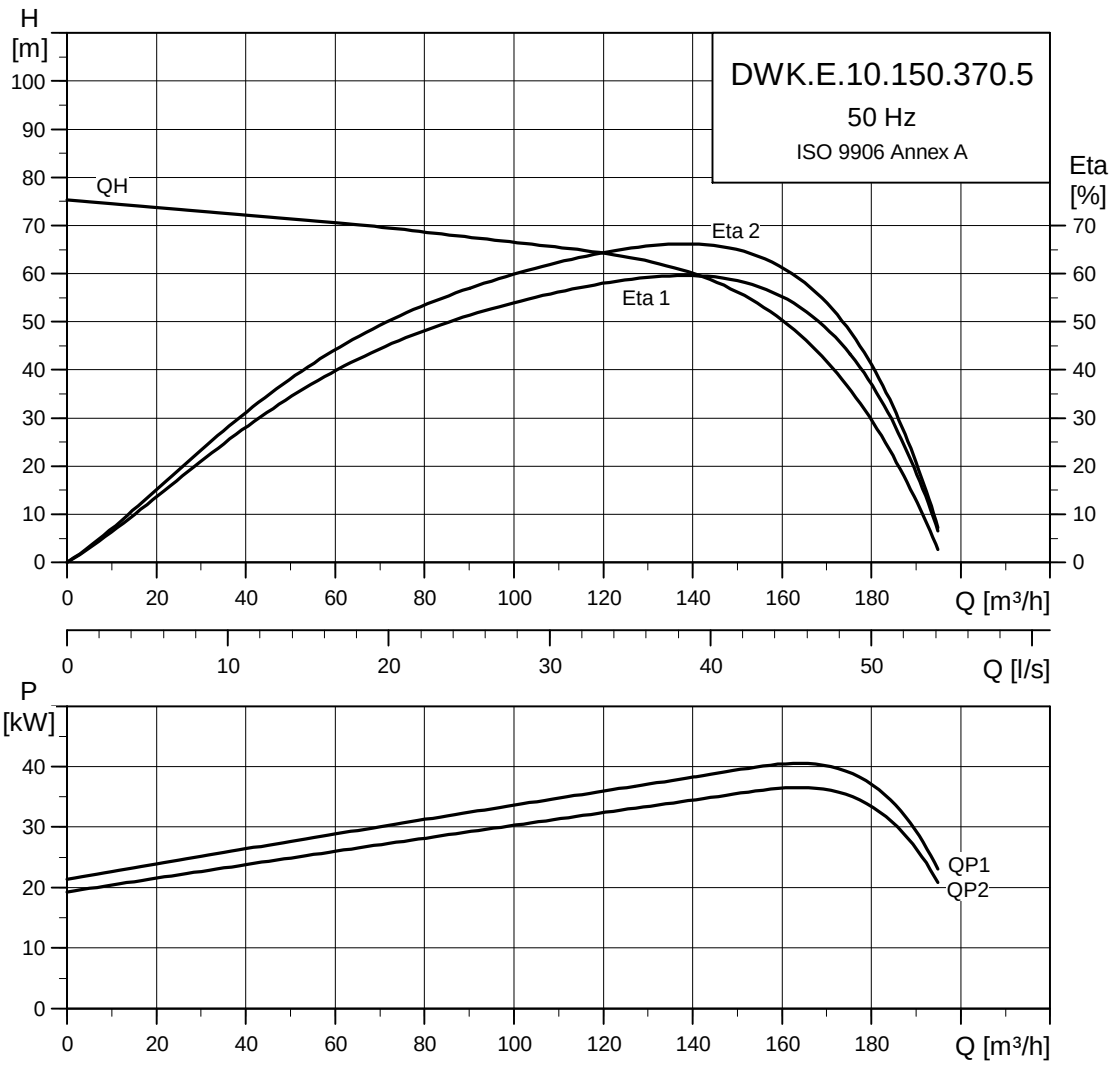
Electrical data

Pump type	Voltage [V]	P2 [kW]	RPM	Starting method	I_N	η_{motor} [%]			Cos φ			Cable
					[A]	1/2	3/4	1/1	1/2	3/4	1/1	
DWK.E.10.150.300.5.1D	3 x 380-415 V Y	30	2850	Y/D	59	87.2	89.1	89.7	0.751	0.828	0.86	7 x 10.0 mm^2 + 6 x 1 mm^2
DWK.E.10.150.300.5.1D.R	3 x 380-415 V Y	30	2850	Y/D	59	87.2	89.1	89.7	0.751	0.828	0.86	7 x 10.0 mm^2 + 6 x 1 mm^2
DWK.E.10.150.300.5.1E	3 x 220-240 V D	30	2850	Y/D	102	87.2	89.1	89.7	0.751	0.828	0.86	7 x 16.0 mm^2 + 6 x 1 mm^2
DWK.E.10.150.300.5.1E.R	3 x 220-240 V D	30	2850	Y/D	102	87.2	89.1	89.7	0.751	0.828	0.86	7 x 16.0 mm^2 + 6 x 1 mm^2

Pump data

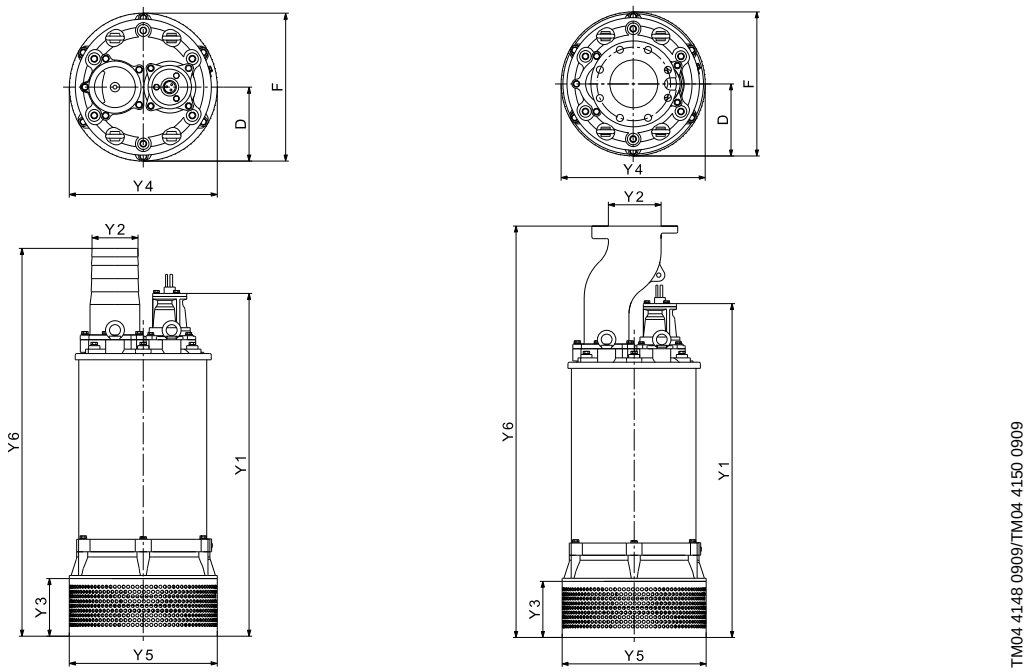
Pump type	Impeller type	Max. solids size [mm]	Max . number of starts per hour	Max. installation depth [m]	Enclosure class	Insulation class	Max. liquid temperature [°C]	pH
DWK.E.10.150.300	Enclosed	10	18	25	68	F	40	4-10

Performance curves DWK.E.10.150.370.5



Performance curves/ Technical data

Dimensional sketches



Dimensions

Pump type	Connection type	Y1	Y2	Y3	Y4	Y5	Y6	D	F	Weight [kg]
DWK.E.10.150.370.5.1E.R	Hose	1318	-	220	612	557	437	306	612	839
DWK.E.10.150.370.5.1D.R										837
DWK.E.10.150.370.5.1E	Flange	1318	-	220	612	557	1161	306	612	839
DWK.E.10.150.370.5.1D										837

With 10 m cable

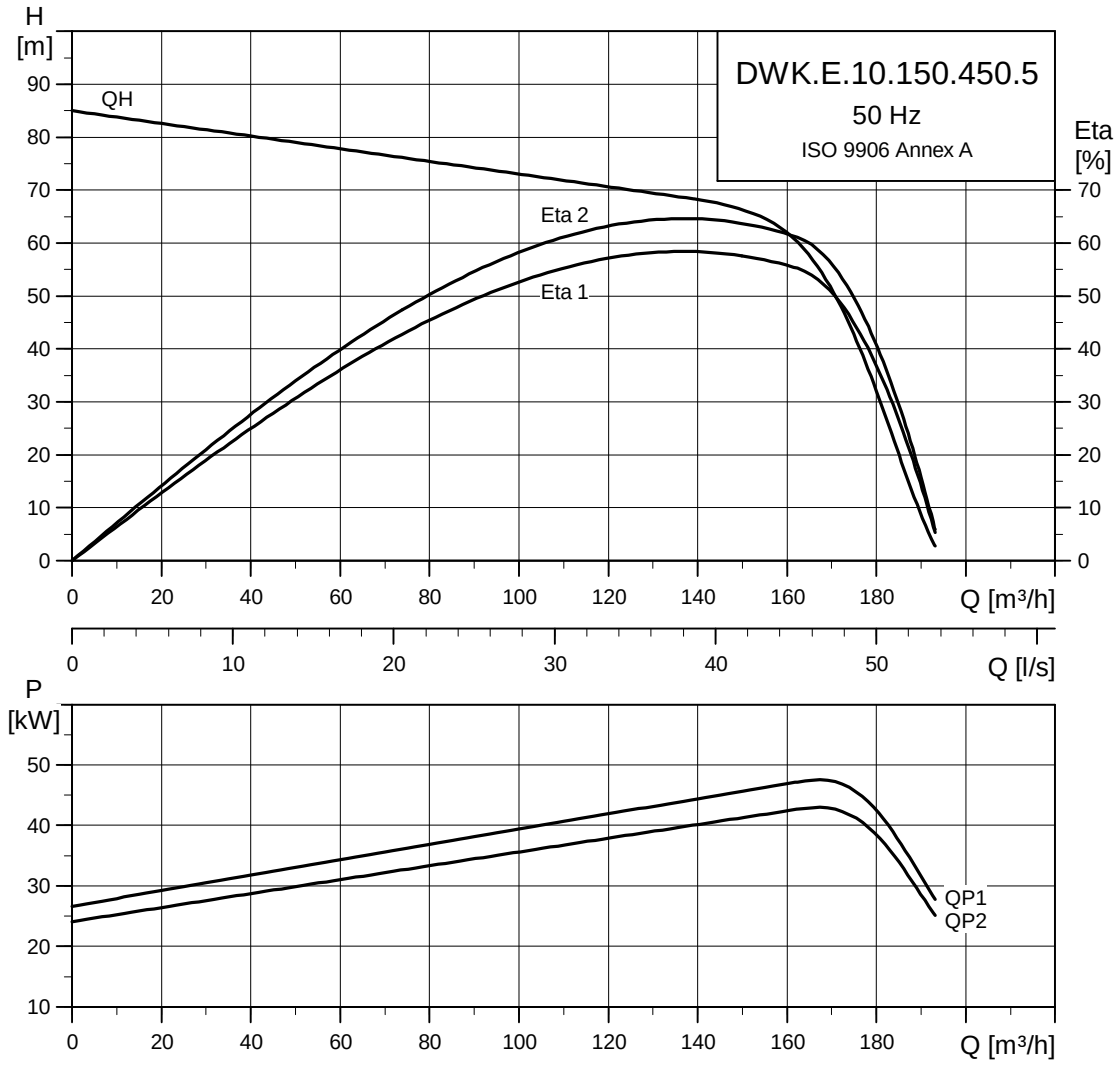
Electrical data

Pump type	Voltage [V]	P2 [kW]	RPM	Starting method	I_N	η_{motor} [%]			Cos φ			Cable
					[A]	1/2	3/4	1/1	1/2	3/4	1/1	
DWK.E.10.150.370.5.1D	3 x 380-415 V Y	37	2850	Y/D	72	87.6	89.5	90.1	0.751	0.828	0.86	7 x 16.0 mm^2 + 6 x 1 mm^2
DWK.E.10.150.370.5.1D.R	3 x 380-415 V Y	37	2850	Y/D	72	87.6	89.5	90.1	0.751	0.828	0.86	7 x 16.0 mm^2 + 6 x 1 mm^2
DWK.E.10.150.370.5.1E	3 x 220-240 V D	37	2850	Y/D	125	87.6	89.5	90.1	0.751	0.828	0.86	7 x 25.0 mm^2 + 6 x 1 mm^2
DWK.E.10.150.370.5.1E.R	3 x 220-240 V D	37	2850	Y/D	125	87.6	89.5	90.1	0.751	0.828	0.86	7 x 25.0 mm^2 + 6 x 1 mm^2

Pump data

Pump type	Impeller type	Max. solids size [mm]	Max . number of starts per hour	Max. installation depth [m]	Enclosure class	Insulation class	Max. liquid temperature [°C]	pH
DWK.E.10.150.370	Enclosed	10	18	25	68	F	40	4-10

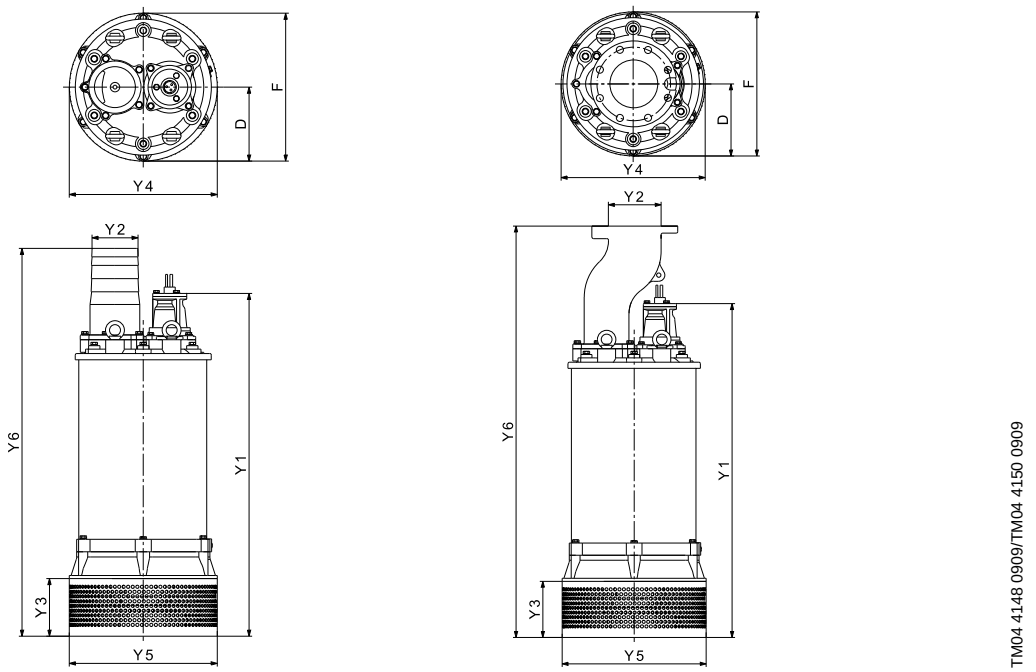
Performance curves DWK.E.10.150.450.5



TM04 2899 1409

Performance curves/ Technical data

Dimensional sketches



Dimensions

Pump type	Connection type	Y1	Y2	Y3	Y4	Y5	Y6	D	F	Weight [kg]
DWK.E.10.150.450.5.1E.R	Hose	1318	-	220	612	557	566	306	612	858
DWK.E.10.150.450.5.1D.R										846
DWK.E.10.150.450.5.1E	Flange	1318	-	220	612	557	1161	306	612	858
DWK.E.10.150.450.5.1D										846

With 10 m cable

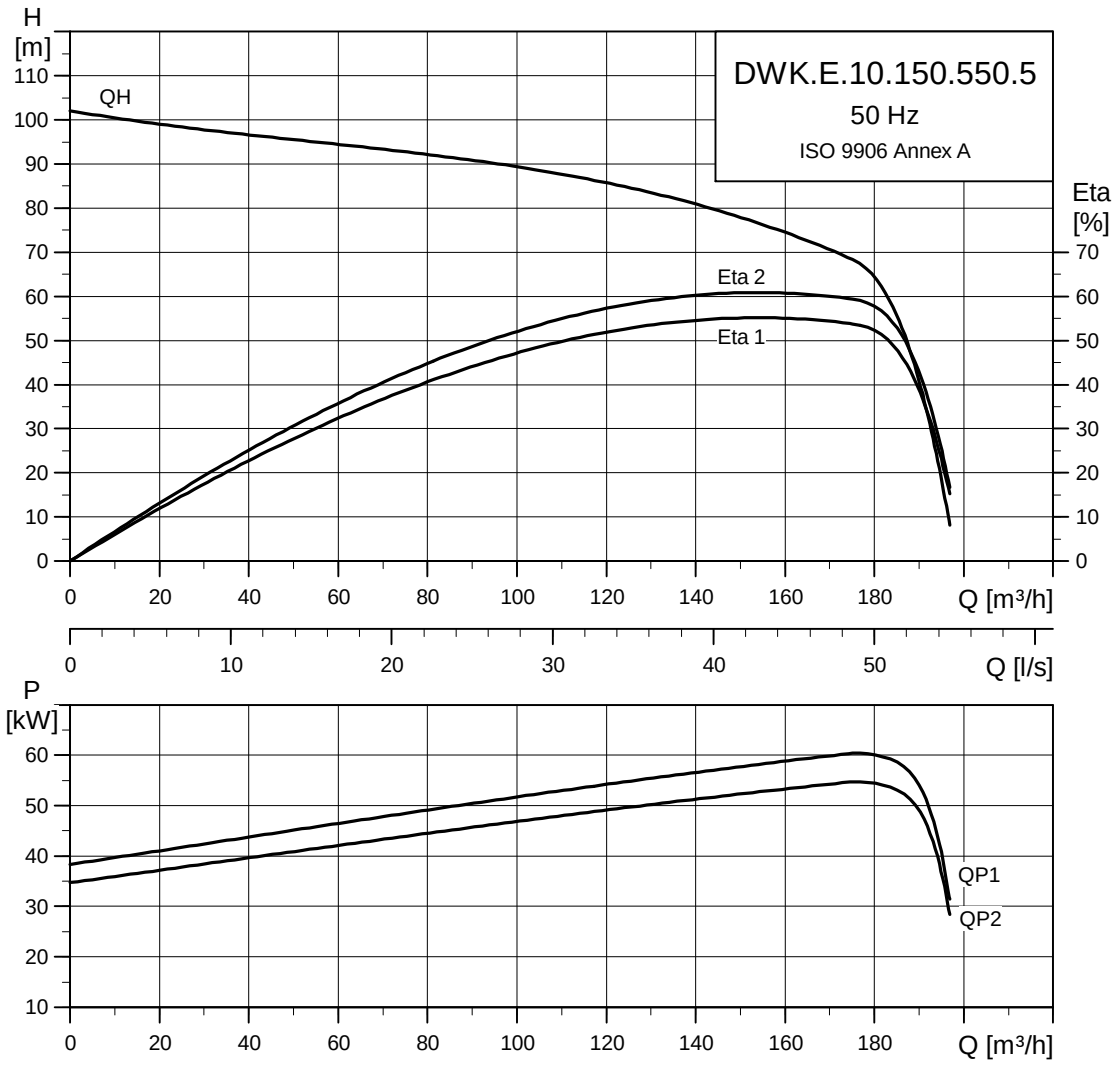
Electrical data

Pump type	Voltage [V]	P2 [kW]	RPM	Starting method	I_N	η_{motor} [%]			Cos φ			Cable
					[A]	1/2	3/4	1/1	1/2	3/4	1/1	
DWK.E.10.150.450.5.1D	3 x 380-415 V Y	45	2850	Y/D	87	87.9	89.8	90.4	0.756	0.833	0.865	7 x 16.0 mm^2 + 6 x 1 mm^2
DWK.E.10.150.450.5.1D.R	3 x 380-415 V Y	45	2850	Y/D	87	87.9	89.8	90.4	0.756	0.833	0.865	7 x 16.0 mm^2 + 6 x 1 mm^2
DWK.E.10.150.450.5.1E	3 x 220-240 V D	45	2850	Y/D	151	87.9	89.8	90.4	0.756	0.833	0.865	7 x 35.0 mm^2 + 6 x 1 mm^2
DWK.E.10.150.450.5.1E.R	3 x 220-240 V D	45	2850	Y/D	151	87.9	89.8	90.4	0.756	0.833	0.865	7 x 35.0 mm^2 + 6 x 1 mm^2

Pump data

Pump type	Impeller type	Max. solids size [mm]	Max . number of starts per hour	Max. installation depth [m]	Enclosure class	Insulation class	Max. liquid temperature [°C]	pH
DWK.E.10.150.450	Enclosed	10	18	25	68	F	40	4-10

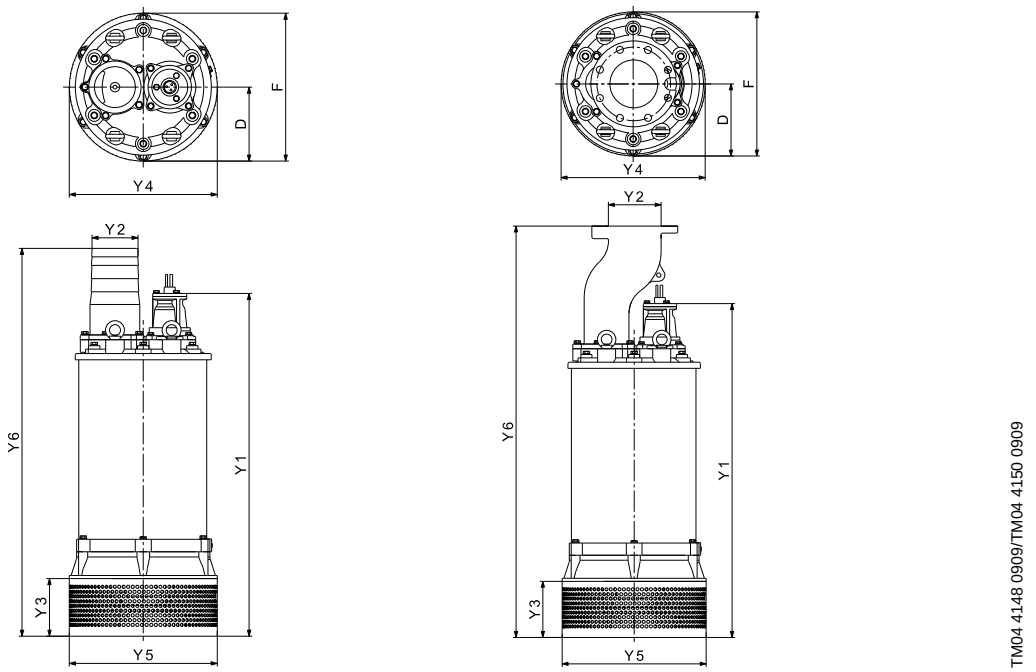
Performance curves DWK.E.10.150.550.5



TM04 2900 1409

Performance curves/ Technical data

Dimensional sketches



Dimensions

Pump type	Connection type	Y1	Y2	Y3	Y4	Y5	Y6	D	F	Weight [kg]
DWK.E.10.150.550.5.1E.R	Hose	1418	-	220	612	557	709	306	612	921
DWK.E.10.150.550.5.1D.R										909
DWK.E.10.150.550.5.1E	Flange	1418	-	220	612	557	1261	306	612	921
DWK.E.10.150.550.5.1D										909

With 10 m cable

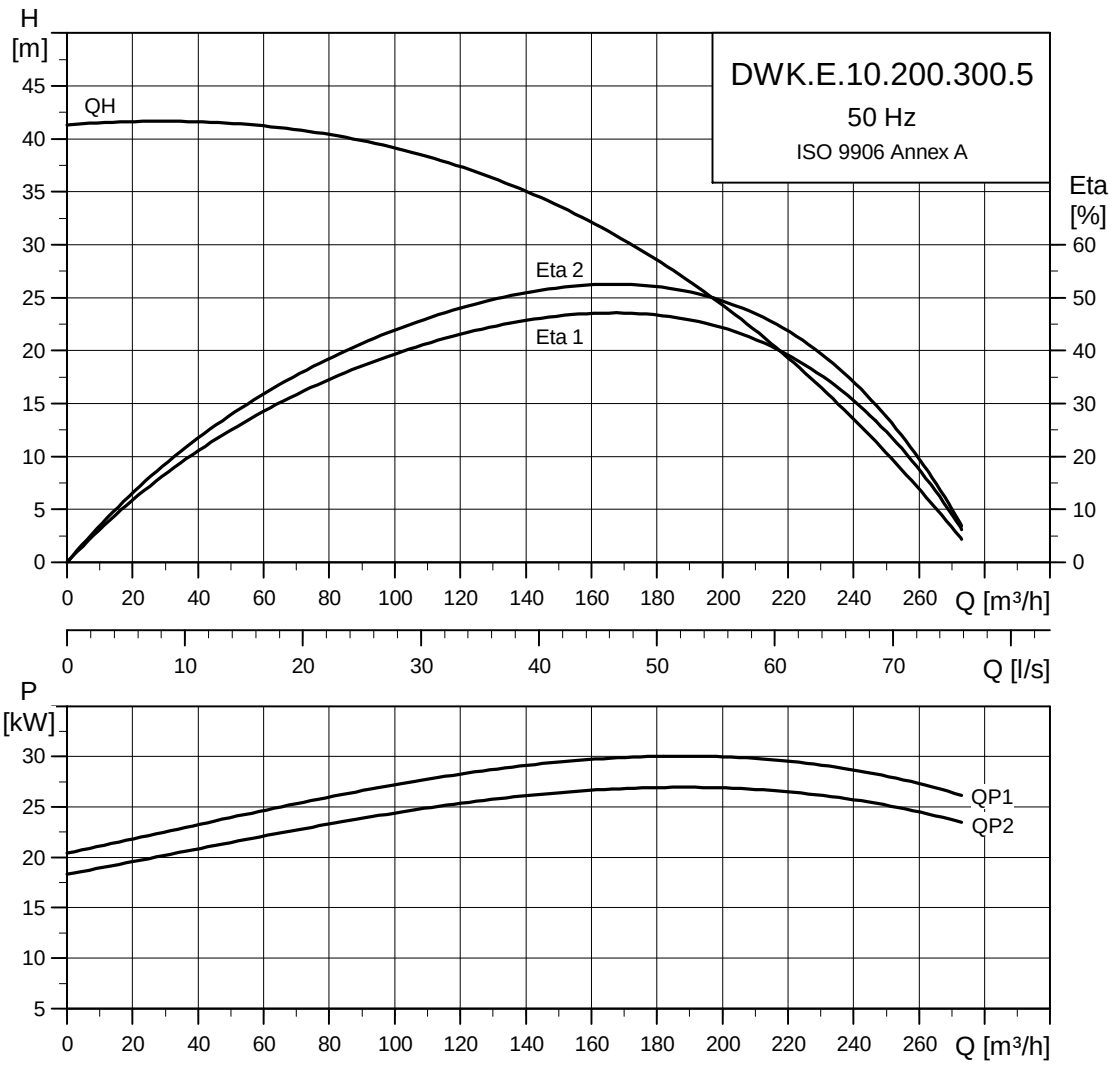
Electrical data

Pump type	Voltage [V]	P2 [kW]	RPM	Starting method	I_N	η_{motor} [%]			Cos φ			Cable
					[A]	1/2	3/4	1/1	1/2	3/4	1/1	
DWK.E.10.150.550.5.1D	3 x 380-415 V Y	55	2850	Y/D	105	88.1	90	90.6	0.756	0.833	0.865	7 x 25.0 mm^2 + 6 x 1 mm^2
DWK.E.10.150.550.5.1D.R	3 x 380-415 V Y	55	2850	Y/D	105	88.1	90	90.6	0.756	0.833	0.865	7 x 25.0 mm^2 + 6 x 1 mm^2
DWK.E.10.150.550.5.1E	3 x 220-240 V D	55	2850	Y/D	184	88.1	90	90.6	0.756	0.833	0.865	7 x 35.0 mm^2 + 6 x 1 mm^2
DWK.E.10.150.550.5.1E.R	3 x 220-240 V D	55	2850	Y/D	184	88.1	90	90.6	0.756	0.833	0.865	7 x 35.0 mm^2 + 6 x 1 mm^2

Pump data

Pump type	Impeller type	Max. solids size [mm]	Max . number of starts per hour	Max. installation depth [m]	Enclosure class	Insulation class	Max. liquid temperature [°C]	pH
DWK.E.10.150.550	Enclosed	10	18	25	68	F	40	4-10

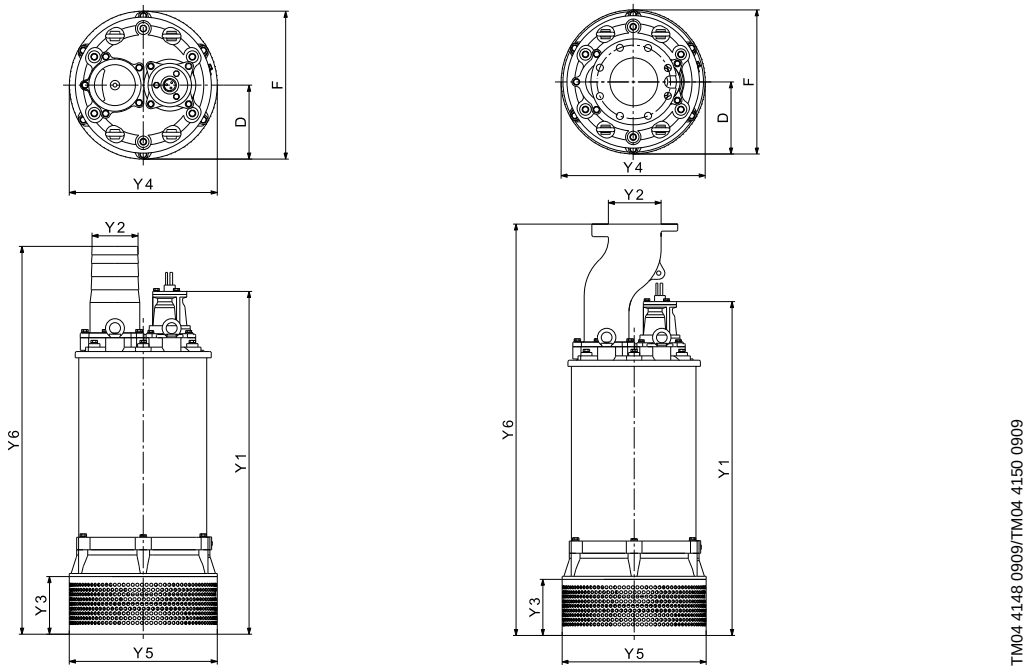
Performance curves DWK.E.10.200.300.5



TM04 2901 1409

Performance curves/ Technical data

Dimensional sketches



Dimensions

Pump type	Connection type	Y1	Y2	Y3	Y4	Y5	Y6	D	F	Weight [kg]
DWK.E.10.200.300.5.1E.R	Hose	1099	-	183	470	470	942	235	470	462
DWK.E.10.200.300.5.1D.R										444
DWK.E.10.200.300.5.1E	Flange	1099	-	183	470	470	942	235	470	462
DWK.E.10.200.300.5.1D										444

With 10 m cable

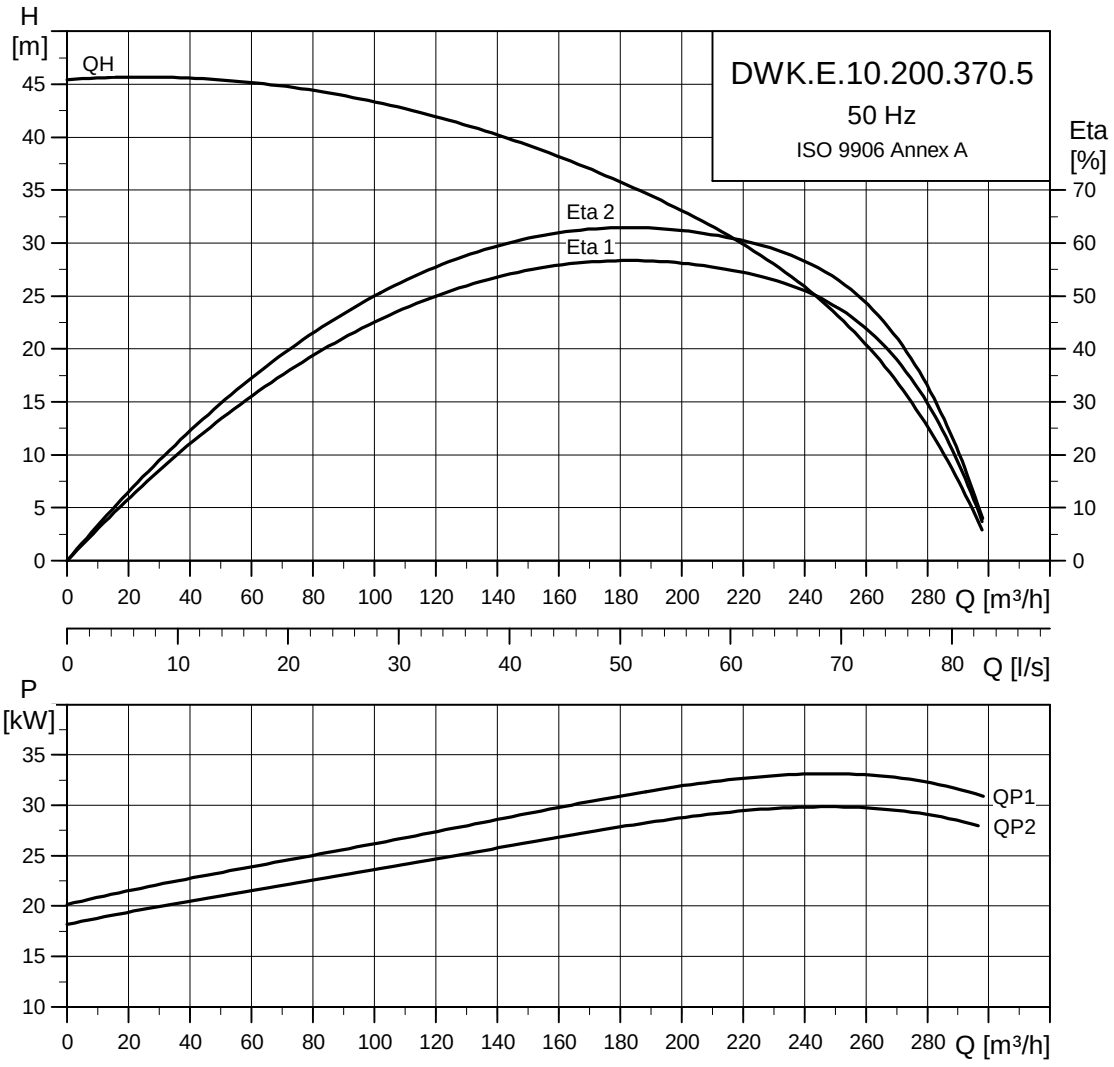
Electrical data

Pump type	Voltage [V]	P2 [kW]	RPM	Starting method	I_N	η_{motor} [%]			Cos φ			Cable
					[A]	1/2	3/4	1/1	1/2	3/4	1/1	
DWK.E.10.200.300.5.1D	3 x 380-415 V Y	30	2850	Y/D	59	87.2	89.1	89.7	0.751	0.828	0.86	7 x 10.0 mm^2 + 6 x 1 mm^2
DWK.E.10.200.300.5.1D.R	3 x 380-415 V Y	30	2850	Y/D	59	87.2	89.1	89.7	0.751	0.828	0.86	7 x 10.0 mm^2 + 6 x 1 mm^2
DWK.E.10.200.300.5.1E	3 x 220-240 V D	30	2850	Y/D	102	87.2	89.1	89.7	0.751	0.828	0.86	7 x 16.0 mm^2 + 6 x 1 mm^2
DWK.E.10.200.300.5.1E.R	3 x 220-240 V D	30	2850	Y/D	102	87.2	89.1	89.7	0.751	0.828	0.86	7 x 16.0 mm^2 + 6 x 1 mm^2

Pump data

Pump type	Impeller type	Max. solids size [mm]	Max . number of starts per hour	Max. installation depth [m]	Enclosure class	Insulation class	Max. liquid temperature [°C]	pH
DWK.E.10.200.300	Enclosed	10	18	25	68	F	40	4-10

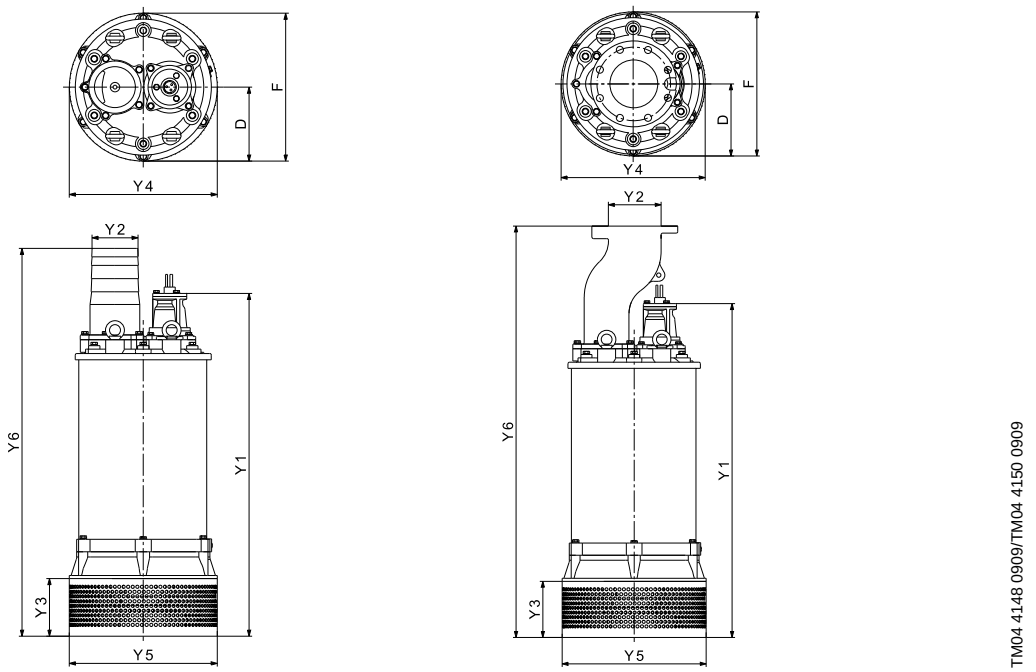
Performance curves DWK.E.10.200.370.5



TM04 2902 1409

Performance curves/ Technical data

Dimensional sketches



TM04 4148 0909/TM04 4150 0909

Dimensions

Pump type	Connection type	Y1	Y2	Y3	Y4	Y5	Y6	D	F	Weight [kg]
DWK.E.10.200.370.5.1E.R	Hose	1318	200	220	612	557	1161	306	612	841
DWK.E.10.200.370.5.1D.R										839
DWK.E.10.200.370.5.1E	Flange	1318	200	220	612	557	1161	306	612	841
DWK.E.10.200.370.5.1D										839

With 10 m cable

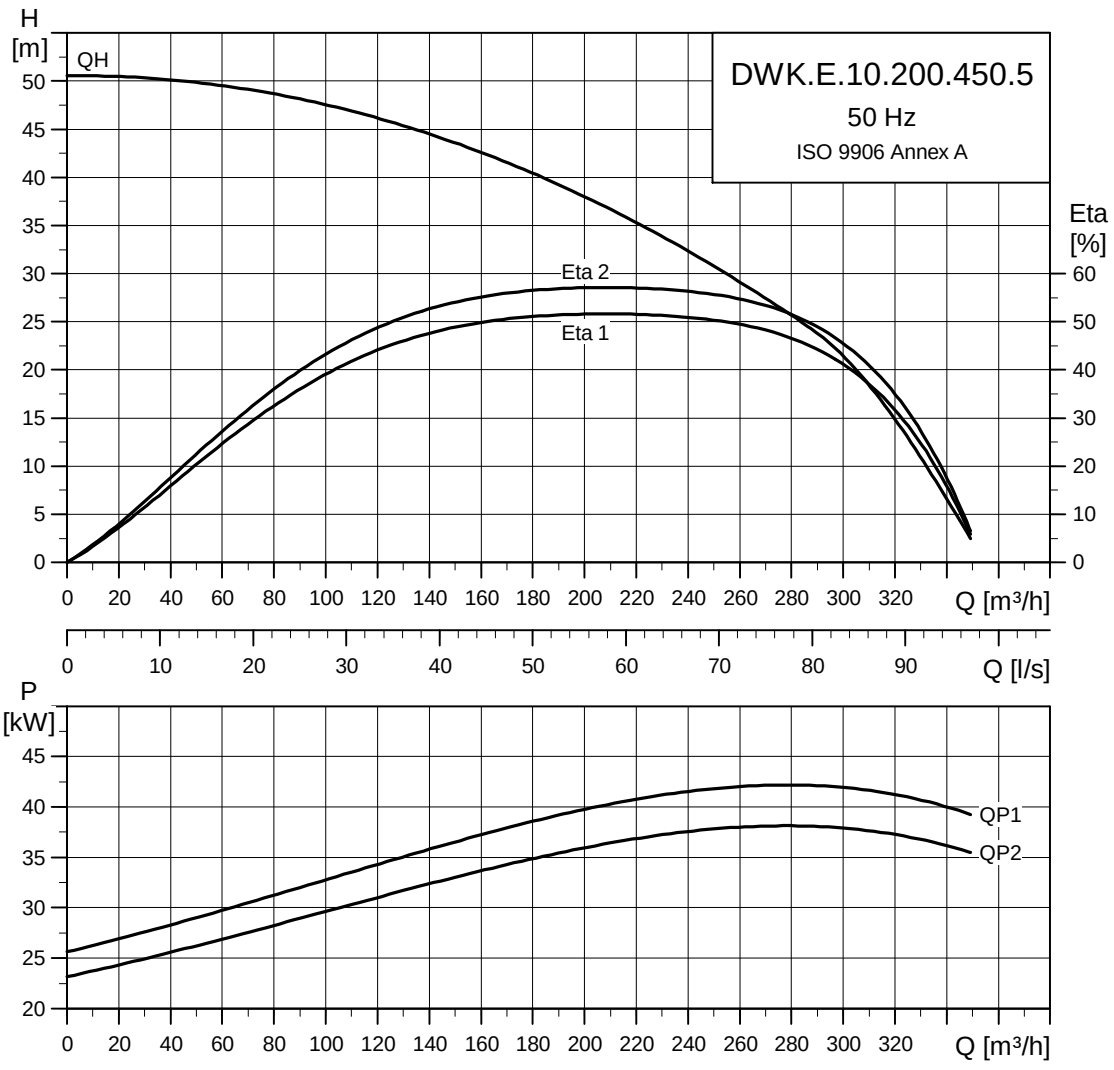
Electrical data

Pump type	Voltage [V]	P2 [kW]	RPM	Starting method	I_N	η_{motor} [%]			Cos φ			Cable
					[A]	1/2	3/4	1/1	1/2	3/4	1/1	
DWK.E.10.200.370.5.1D	3 x 380-415 V Y	37	2850	Y/D	72	87.6	89.5	90.1	0.751	0.828	0.86	7 x 16.0 mm^2 + 6 x 1 mm^2
DWK.E.10.200.370.5.1D.R	3 x 380-415 V Y	37	2850	Y/D	72	87.6	89.5	90.1	0.751	0.828	0.86	7 x 16.0 mm^2 + 6 x 1 mm^2
DWK.E.10.200.370.5.1E	3 x 220-240 V D	37	2850	Y/D	125	87.6	89.5	90.1	0.751	0.828	0.86	7 x 25.0 mm^2 + 6 x 1 mm^2
DWK.E.10.200.370.5.1E.R	3 x 220-240 V D	37	2850	Y/D	125	87.6	89.5	90.1	0.751	0.828	0.86	7 x 25.0 mm^2 + 6 x 1 mm^2

Pump data

Pump type	Impeller type	Max. solids size [mm]	Max . number of starts per hour	Max. installation depth [m]	Enclosure class	Insulation class	Max. liquid temperature [°C]	pH
DWK.E.10.200.370	Enclosed	10	18	25	68	F	40	4-10

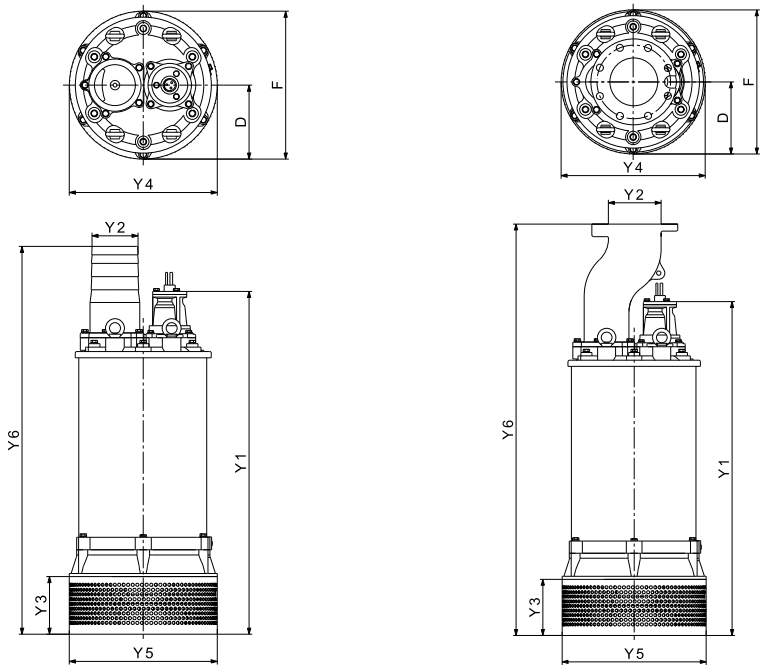
Performance curves DWK.E.10.200.450.5



TM04 2903 1409

Performance curves/ Technical data

Dimensional sketches



TM04 4148 0909/TM04 4150 0909

Dimensions

Pump type	Connection type	Y1	Y2	Y3	Y4	Y5	Y6	D	F	Weight [kg]
DWK.E.10.200.450.5.1E.R	Hose	1318	200	220	612	557	1161	306	612	860
DWK.E.10.200.450.5.1D.R										848
DWK.E.10.200.450.5.1E	Flange	1318	200	220	612	557	1161	306	612	860
DWK.E.10.200.450.5.1D										848

With 10 m cable

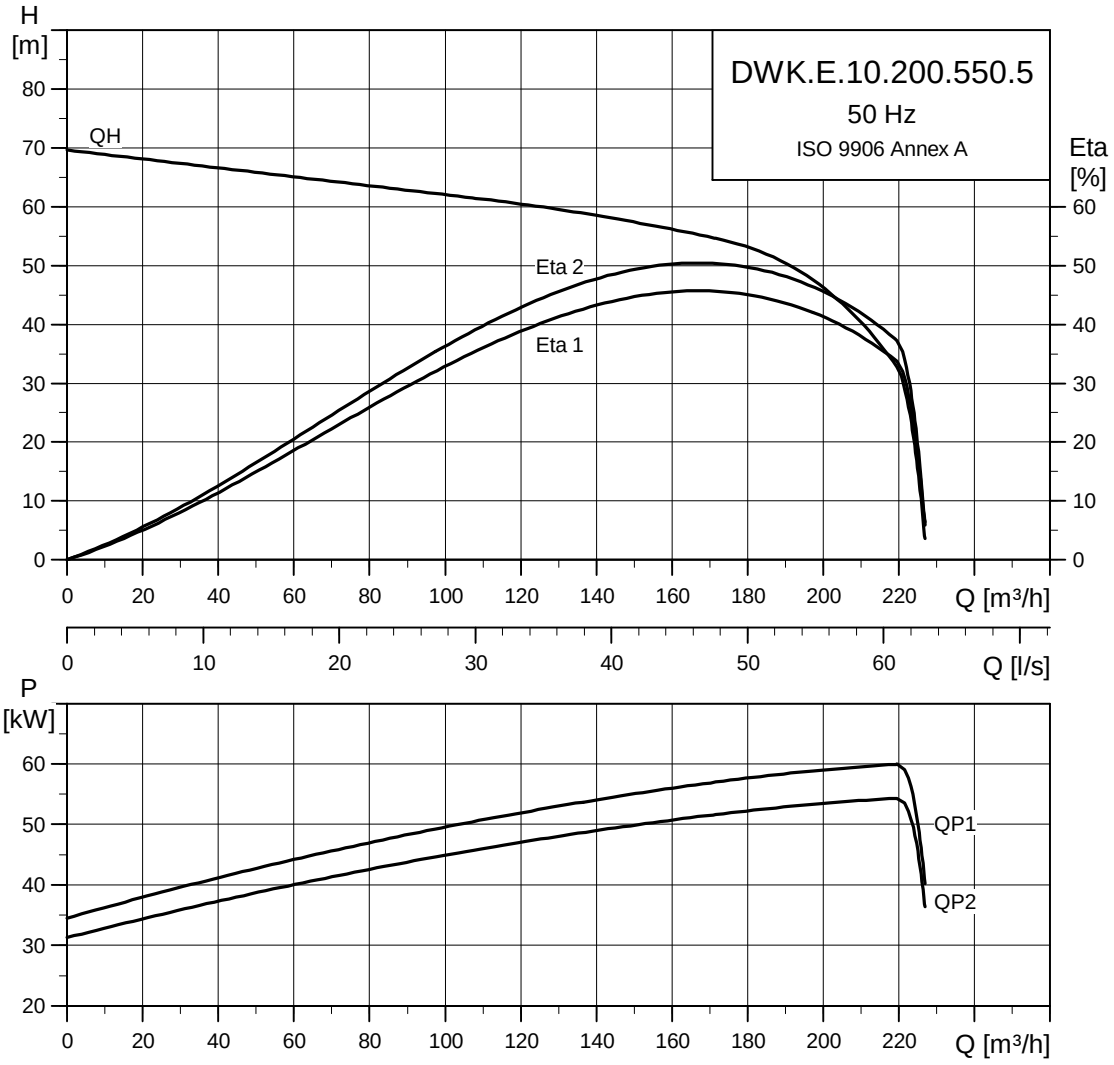
Electrical data

Pump type	Voltage [V]	P2 [kW]	RPM	Starting method	I_N	η_{motor} [%]			Cos φ			Cable
					[A]	1/2	3/4	1/1	1/2	3/4	1/1	
DWK.E.10.200.450.5.1D	3 x 380-415 V Y	45	2850	Y/D	87	87.9	89.8	90.4	0.756	0.833	0.865	7 x 16.0 mm^2 + 6 x 1 mm^2
DWK.E.10.200.450.5.1D.R	3 x 380-415 V Y	45	2850	Y/D	87	87.9	89.8	90.4	0.756	0.833	0.865	7 x 16.0 mm^2 + 6 x 1 mm^2
DWK.E.10.200.450.5.1E	3 x 220-240 V D	45	2850	Y/D	151	87.9	89.8	90.4	0.756	0.833	0.865	7 x 35.0 mm^2 + 6 x 1 mm^2
DWK.E.10.200.450.5.1E.R	3 x 220-240 V D	45	2850	Y/D	151	87.9	89.8	90.4	0.756	0.833	0.865	7 x 35.0 mm^2 + 6 x 1 mm^2

Pump data

Pump type	Impeller type	Max. solids size [mm]	Max . number of starts per hour	Max. installation depth [m]	Enclosure class	Insulation class	Max. liquid temperature [°C]	pH
DWK.E.10.200.450	Enclosed	10	18	25	68	F	40	4-10

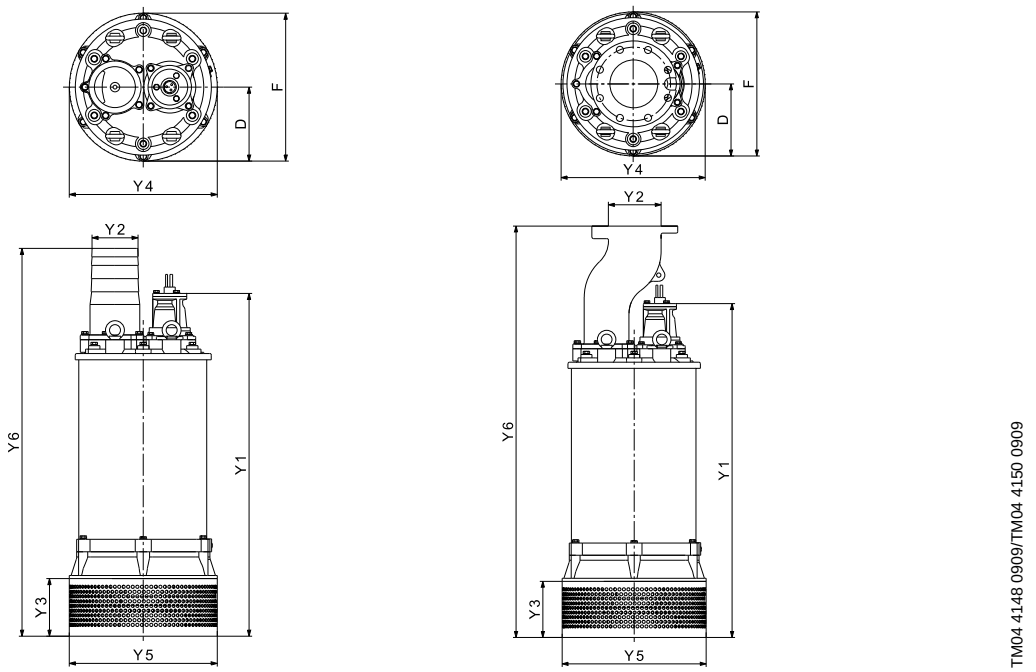
Performance curves DWK.E.10.200.550.5



TM4 2904 1409

Performance curves/ Technical data

Dimensional sketches



Dimensions

Pump type	Connection type	Y1	Y2	Y3	Y4	Y5	Y6	D	F	Weight [kg]
DWK.E.10.200.550.5.1E.R	Hose	1418	200	220	612	557	1261	306	612	923
DWK.E.10.200.550.5.1D.R										911
DWK.E.10.200.550.5.1E	Flange	1418	200	220	612	557	1261	306	612	923
DWK.E.10.200.550.5.1D										911

With 10 m cable

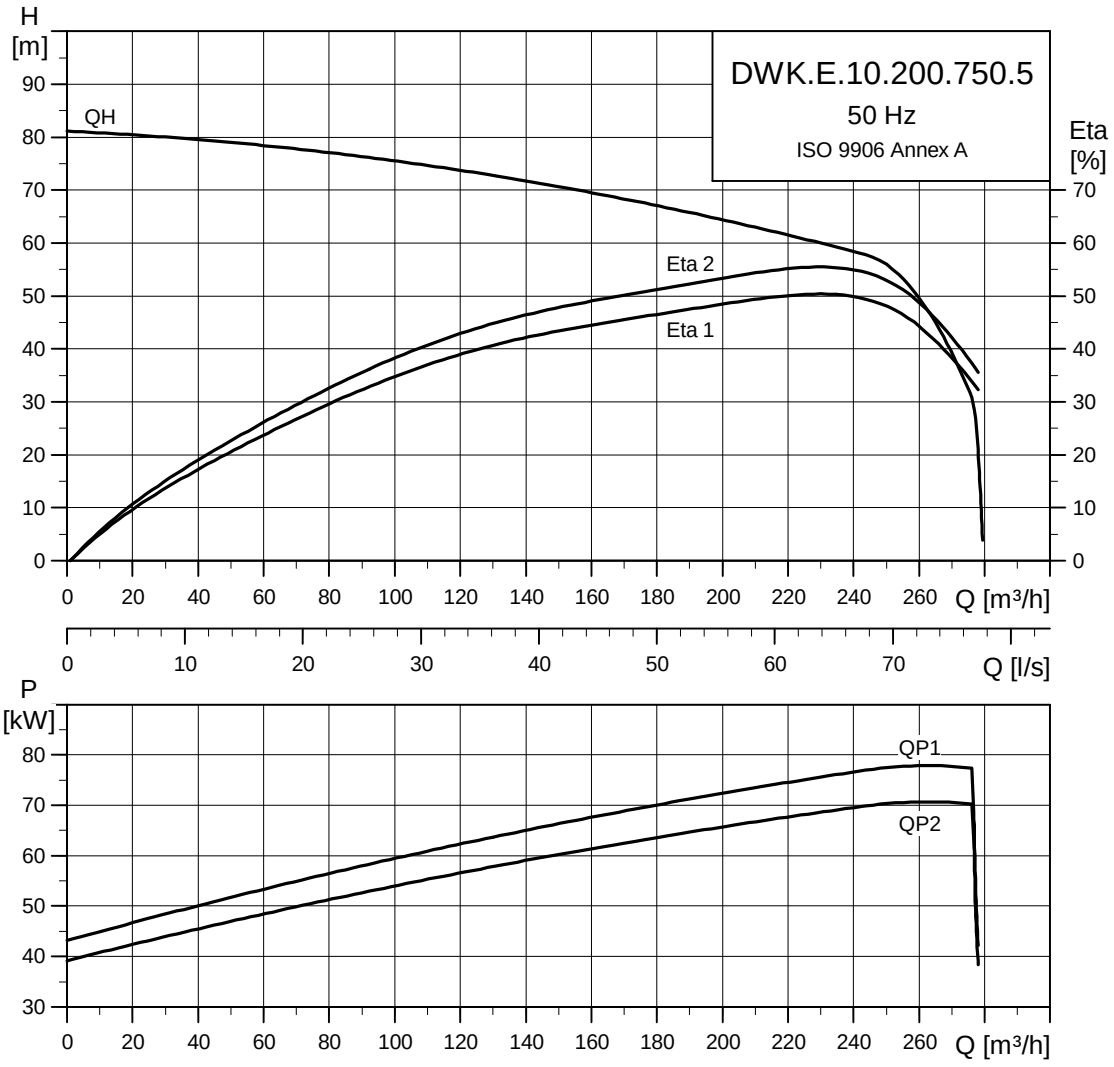
Electrical data

Pump type	Voltage [V]	P2 [kW]	RPM	Starting method	I_N	η_{motor} [%]			Cos φ			Cable
					[A]	1/2	3/4	1/1	1/2	3/4	1/1	
DWK.E.10.200.550.5.1D	3 x 380-415 V Y	55	2850	Y/D	105	88.1	90	90.6	0.756	0.833	0.865	7 x 25.0 mm^2 + 6 x 1 mm^2
DWK.E.10.200.550.5.1D.R	3 x 380-415 V Y	55	2850	Y/D	105	88.1	90	90.6	0.756	0.833	0.865	7 x 25.0 mm^2 + 6 x 1 mm^2
DWK.E.10.200.550.5.1E	3 x 220-240 V D	55	2850	Y/D	184	88.1	90	90.6	0.756	0.833	0.865	7 x 35.0 mm^2 + 6 x 1 mm^2
DWK.E.10.200.550.5.1E.R	3 x 220-240 V D	55	2850	Y/D	184	88.1	90	90.6	0.756	0.833	0.865	7 x 35.0 mm^2 + 6 x 1 mm^2

Pump data

Pump type	Impeller type	Max. solids size [mm]	Max . number of starts per hour	Max. installation depth [m]	Enclosure class	Insulation class	Max. liquid temperature [°C]	pH
DWK.E.10.200.550	Enclosed	10	18	25	68	F	40	4-10

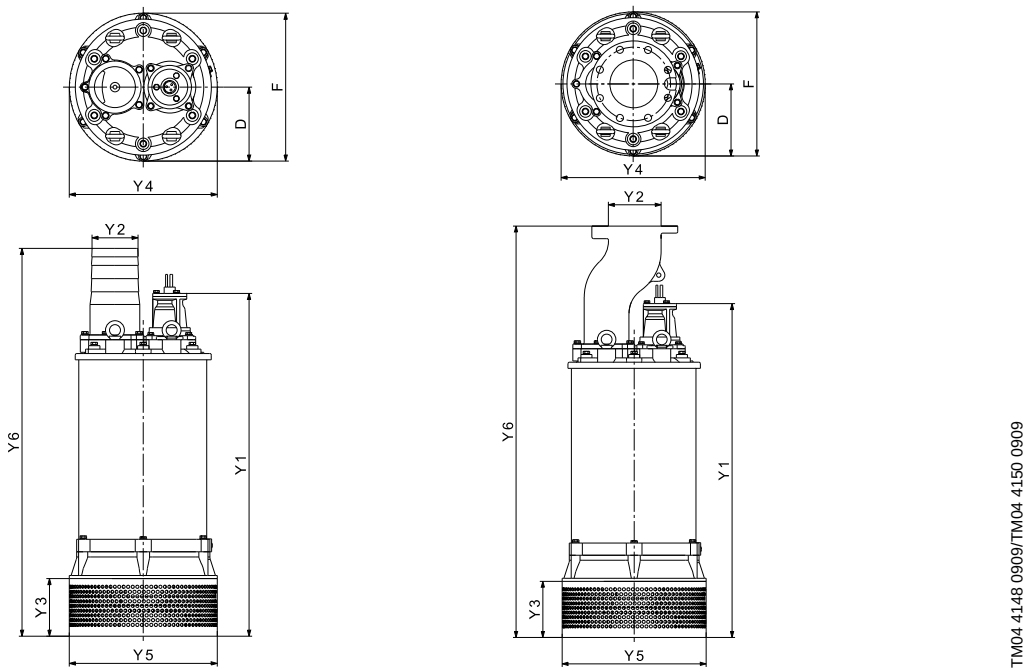
Performance curves DWK.E.10.200.750.5



TM05 2905 1409

Performance curves/ Technical data

Dimensional sketches



Dimensions

Pump type	Connection type	Y1	Y2	Y3	Y4	Y5	Y6	D	F	Weight [kg]
DWK.E.10.200.750.5.1E.R	Hose	1418	200	220	612	557	1261	306	612	973
DWK.E.10.200.750.5.1D.R										961
DWK.E.10.200.750.5.1E	Flange	1418	200	220	612	557	1261	306	612	973
DWK.E.10.200.750.5.1D										961

With 10 m cable

Electrical data

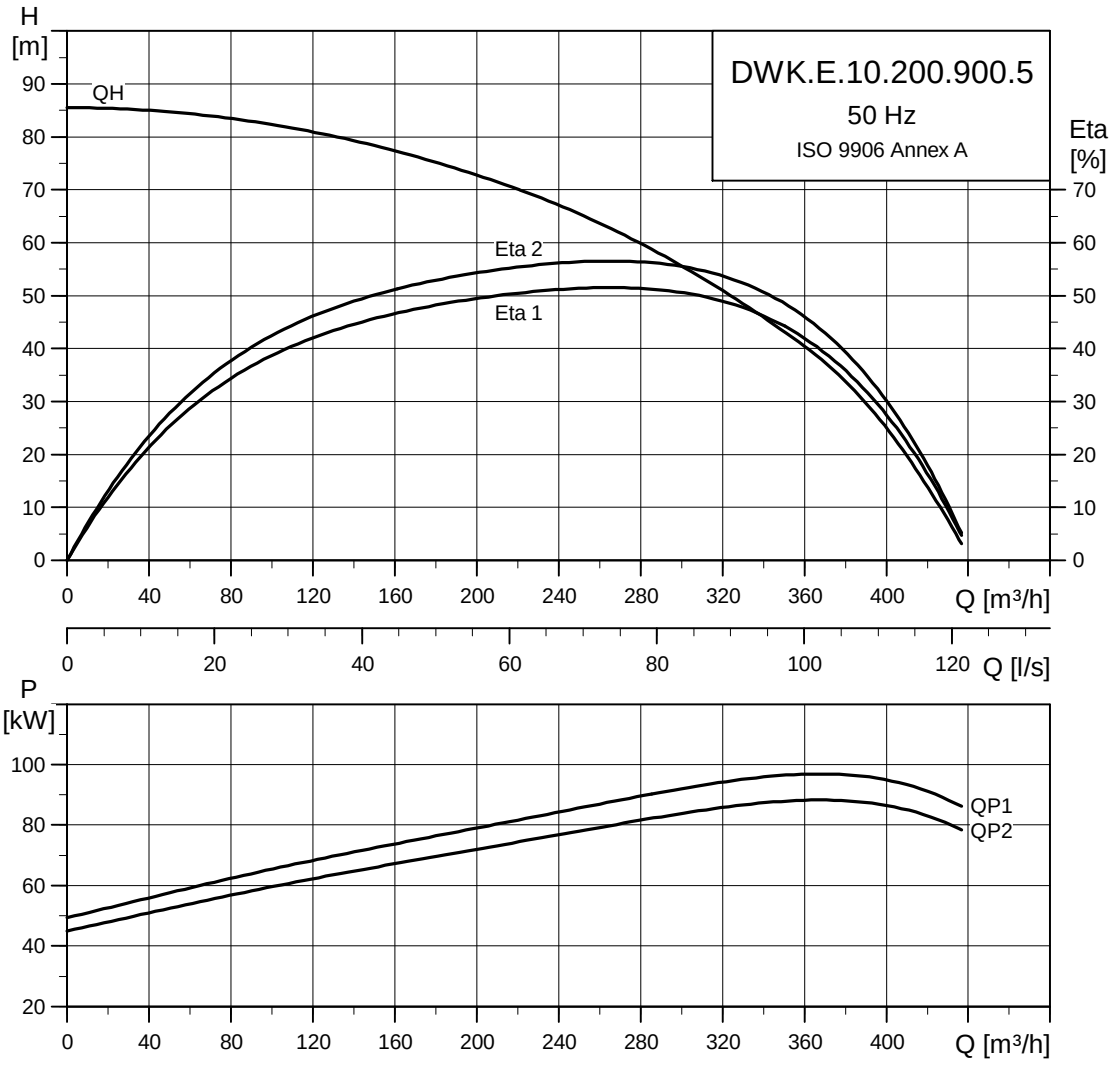
Pump type	Voltage [V]	P2 [kW]	RPM	Starting method	I_N	η_{motor} [%]			Cos φ			Cable
					[A]	1/2	3/4	1/1	1/2	3/4	1/1	
DWK.E.10.200.750.5.1D	3 x 380-415 V Y	75	2850	Y/D	144	88.2	90.2	90.8	0.76	0.838	0.87	7 x 25.0 mm^2 + 6 x 1 mm^2
DWK.E.10.200.750.5.1D.R	3 x 380-415 V Y	75	2850	Y/D	144	88.2	90.2	90.8	0.76	0.838	0.87	7 x 25.0 mm^2 + 6 x 1 mm^2
DWK.E.10.200.750.5.1E	3 x 220-240 V D	75	2850	Y/D	249	88.2	90.2	90.8	0.76	0.838	0.87	4 x 50.0 mm^2 + 6 x 1 mm^2, 2EA*
DWK.E.10.200.750.5.1E.R	3 x 220-240 V D	75	2850	Y/D	249	88.2	90.2	90.8	0.76	0.838	0.87	4 x 50.0 mm^2 + 6 x 1 mm^2, 2EA*

* 2EA = two cable entries in pump.

Pump data

Pump type	Impeller type	Max. solids size [mm]	Max . number of starts per hour	Max. installation depth [m]	Enclosure class	Insulation class	Max. liquid temperature [°C]	pH
DWK.E.10.200.750	Enclosed	10	18	25	68	F	40	4-10

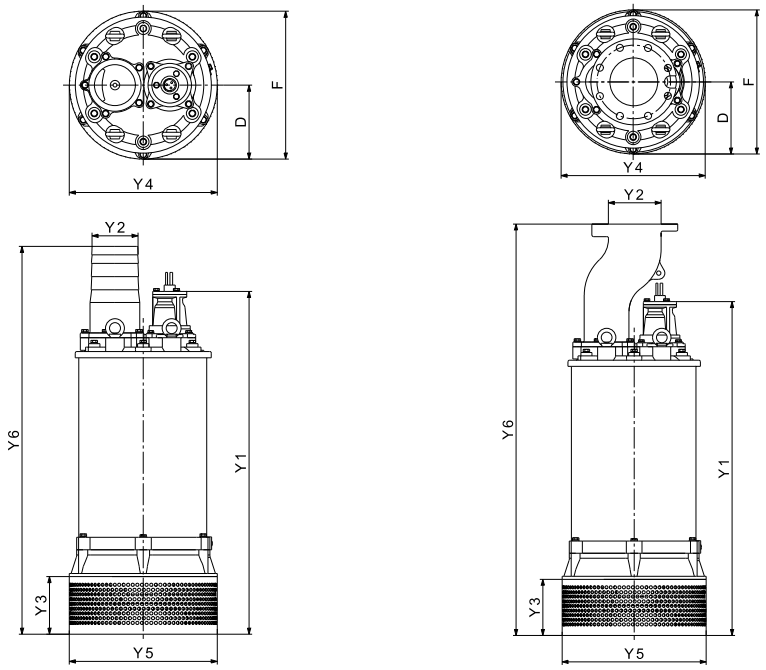
Performance curves DWK.E.10.200.900.5



TM04 2906 1409

Performance curves/ Technical data

Dimensional sketches



TM04 4148 0909/TM04 4150 0909

Dimensions

Pump type	Connection type	Y1	Y2	Y3	Y4	Y5	Y6	D	F	Weight [kg]
DWK.E.10.200.900.5.1D.R	Hose	1418	200	220	612	557	1261	306	612	1028
DWK.E.10.200.900.5.1D.R										1016
DWK.E.10.200.900.5.1D	Flange	1418	200	220	612	557	1261	306	612	1028
DWK.E.10.200.900.5.1D										1016

With 10 m cable

Electrical data

Pump type	Voltage [V]	P2 [kW]	RPM	Starting method	I_N	η_{motor} [%]			Cos φ			Cable
					[A]	1/2	3/4	1/1	1/2	3/4	1/1	
DWK.E.10.200.900.5.1D	3 x 380-415 V Y	90	2850	Y/D	172	88.5	90.5	91.1	0.76	0.838	0.87	4 x 50.0 mm^2 + 6 x 1 mm^2, 2EA*
DWK.E.10.200.900.5.1D.R	3 x 380-415 V Y	90	2850	Y/D	172	88.5	90.5	91.1	0.76	0.838	0.87	4 x 50.0 mm^2 + 6 x 1 mm^2, 2EA*

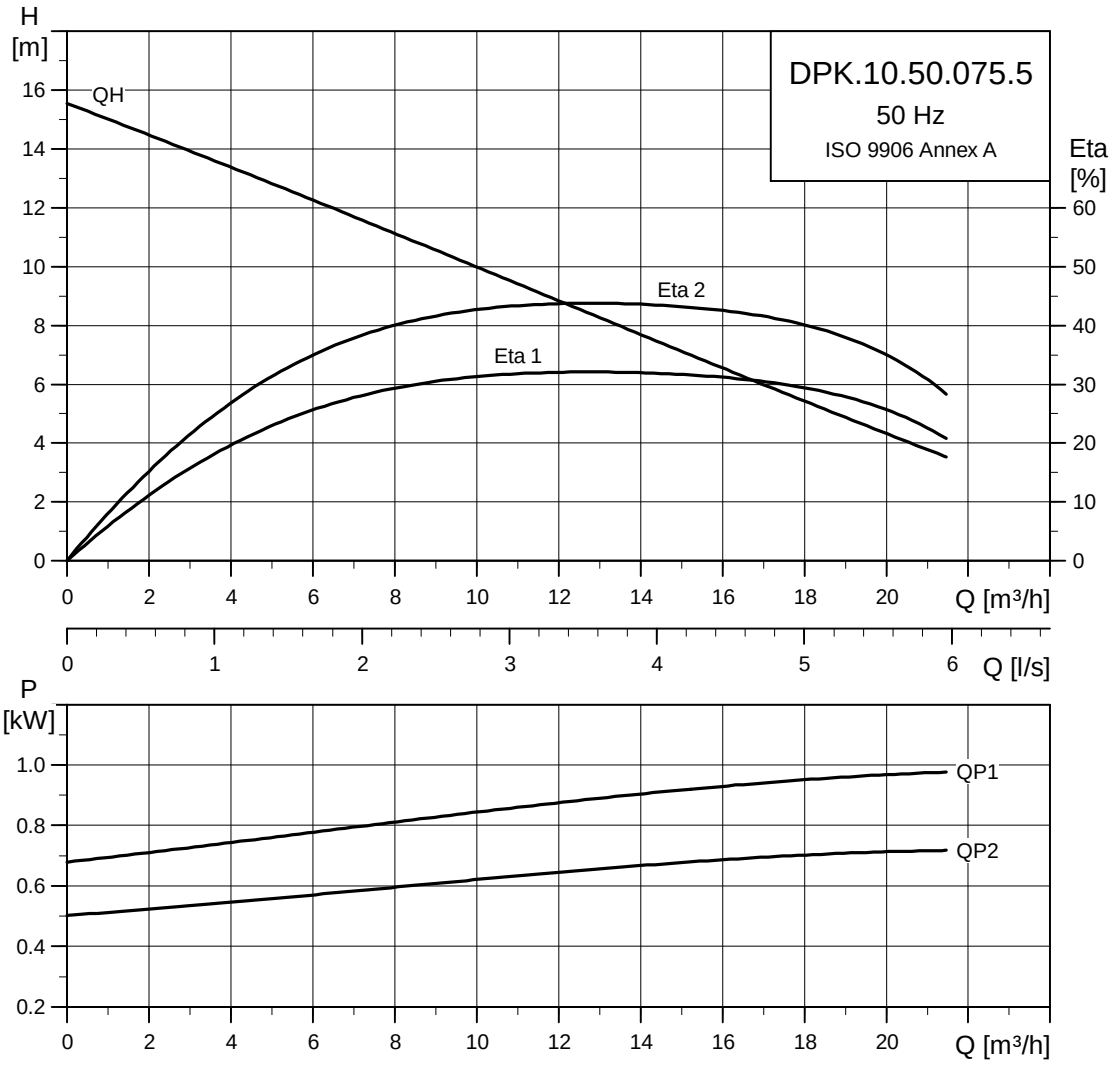
* 2EA = two cable entries in pump.

Pump data

Pump type	Impeller type	Max. solids size [mm]	Max . number of starts per hour	Max. installation depth [m]	Enclosure class	Insulation class	Max. liquid temperature [°C]	pH
DWK.E.10.200.900	Enclosed	10	18	25	68	F	40	4-10

DPK

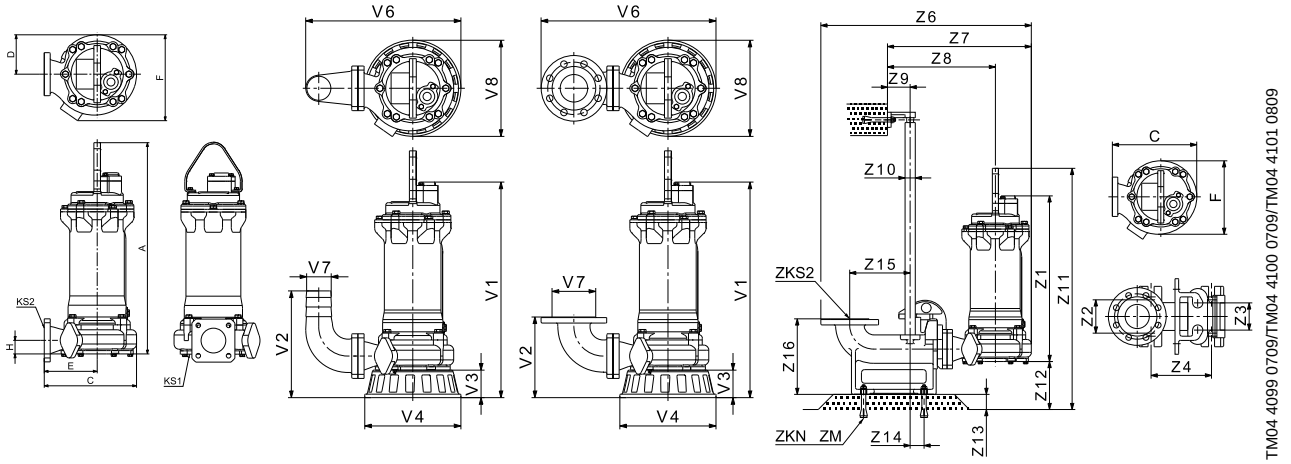
Performance curves DPK.10.50.075.5



TM04 2875 1409

Performance curves/ Technical data

Dimensional sketches



Dimensions

Pump type	Installation type	A	C	D	E	F	H	KS1	KS2	Weight [kg]
DPK.10.50.075	Without accessories	436	224	88	125	213	47	48	50	31

Pump type	Installation type	V1	V2, hose	V2, flange	V3	V4	V6, hose	V6, flange	V7, hose	V7, flange	V8
DPK.10.50.075	Ring stand	450	231	201	70	223	327	377	50	100	238

Pump type	Installation type	C	F	Z1	Z2	Z3	Z4	Z6	Z7	Z8	Z9	Z10	Z11	Z12	Z13	Z14	Z15	Z16	ZKS2	ZKN	ZM
DPK.10.50.075	Auto coupling	224	213	380	120	70	120	549	381	282	50	25A	597	161	50	28	140	250	50	4	M16 x 200

With 10 m cable

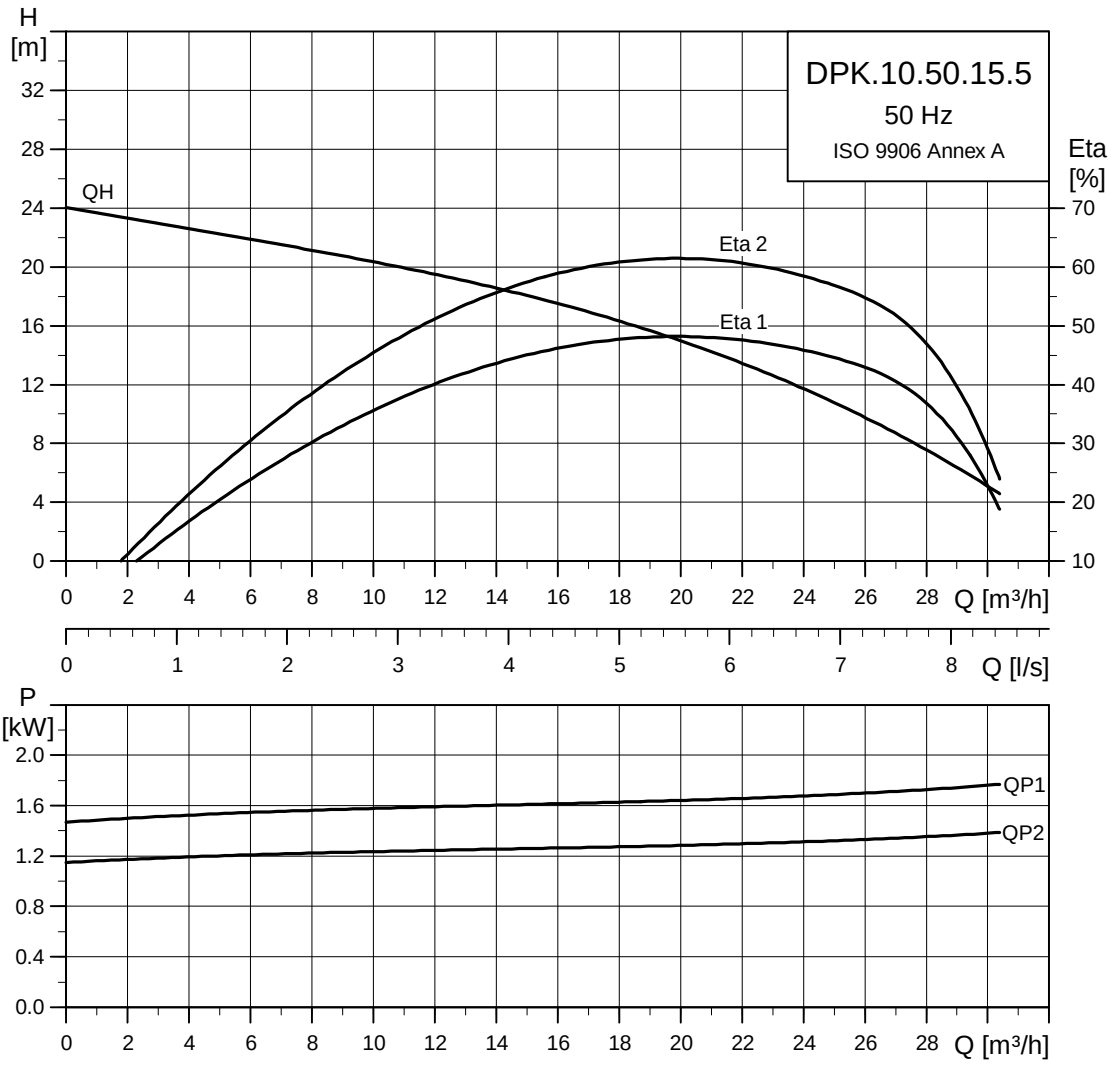
Electrical data

Pump type	Voltage [V]	P2 [kW]	RPM	Starting method	I_N	η_{motor} [%]			Cos φ			Cable
					[A]	1/2	3/4	1/1	1/2	3/4	1/1	
DPK.10.50.075.5.0D	3 x 380-415 V Y	0.75	2850	DOL	2	71.2	72.8	73.3	0.68	0.749	0.778	4 x 1.5 mm^2 + 4 x 1 mm^2
DPK.10.50.075.5.0E	3 x 220-240 V D	0.75	2850	DOL	3.5	71.2	72.8	73.3	0.68	0.749	0.778	4 x 1.5 mm^2 + 4 x 1 mm^2

Pump data

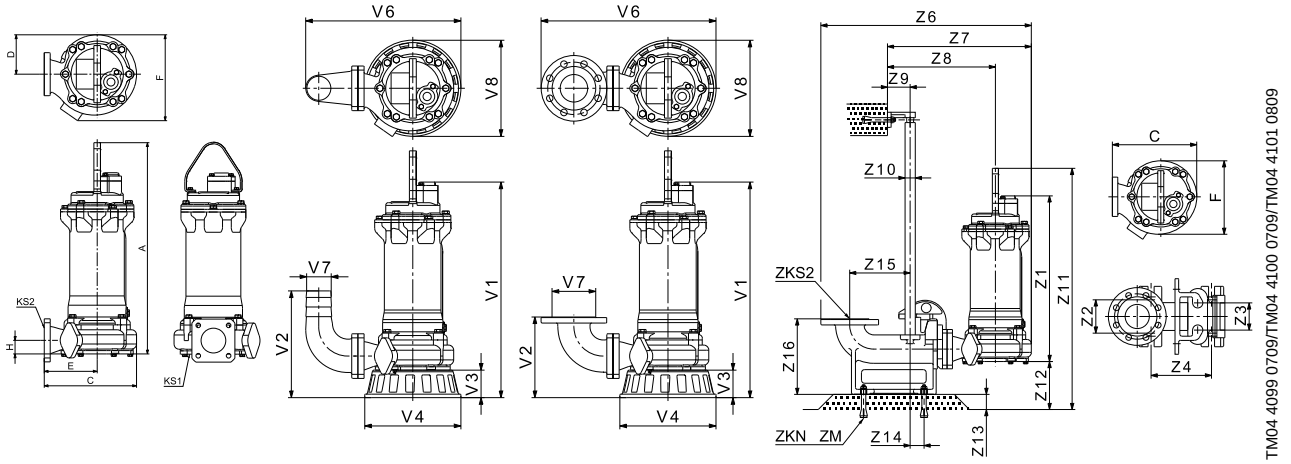
Pump type	Impeller type	Max. solids size [mm]	Max . number of starts per hour	Max. installation depth [m]	Enclosure class	Insulation class	Max. liquid temperature [°C]	pH
DPK.10.50.075	Semi-open	10	30	25	68	F	40	4-10

Performance curves DPK.10.50.15.5



Performance curves/ Technical data

Dimensional sketches



Dimensions

Pump type	Installation type	A	C	D	E	F	H	KS1	KS2	Weight [kg]
DPK.10.50.15	Without accessories	436	224	88	125	213	47	48	50	35

Pump type	Installation type	V1	V2, hose	V2, flange	V3	V4	V6, hose	V6, flange	V7, hose	V7, flange	V8
DPK.10.50.15	Ring stand	450	231	201	70	223	327	377	50	100	238

Pump type	Installation type	C	F	Z1	Z2	Z3	Z4	Z6	Z7	Z8	Z9	Z10	Z11	Z12	Z13	Z14	Z15	Z16	ZKS2	ZKN	ZM
DPK.10.50.15	Auto coupling	224	213	380	120	70	120	549	381	282	50	25A	597	161	50	28	140	250	50	4	M16 x 200

With 10 m cable

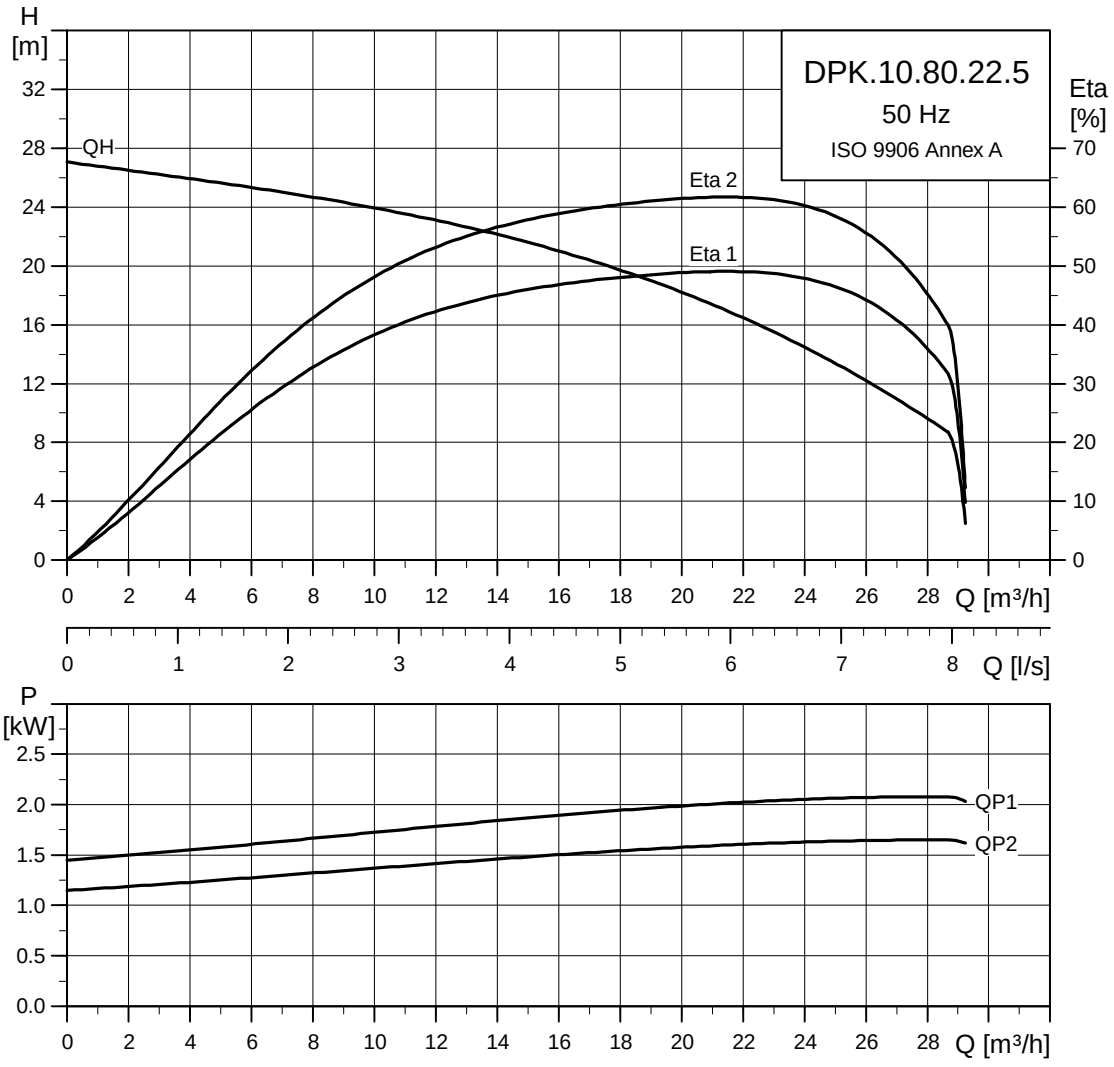
Electrical data

Pump type	Voltage [V]	P2 [kW]	RPM	Starting method	I_N	η_{motor} [%]			Cos φ			Cable
					[A]	1/2	3/4	1/1	1/2	3/4	1/1	
DPK.10.50.15.5.0D	3 x 380-415 V Y	1.5	2850	DOL	3.6	76.2	77.8	78.4	0.708	0.78	0.81	4 x 1.5 mm^2 + 4 x 1 mm^2
DPK.10.50.15.5.0E	3 x 220-240 V D	1.5	2850	DOL	6.2	76.2	77.8	78.4	0.708	0.78	0.81	4 x 1.5 mm^2 + 4 x 1 mm^2

Pump data

Pump type	Impeller type	Max. solids size [mm]	Max . number of starts per hour	Max. installation depth [m]	Enclosure class	Insulation class	Max. liquid temperature [°C]	pH
DPK.10.50.15	Semi-open	10	30	25	68	F	40	4-10

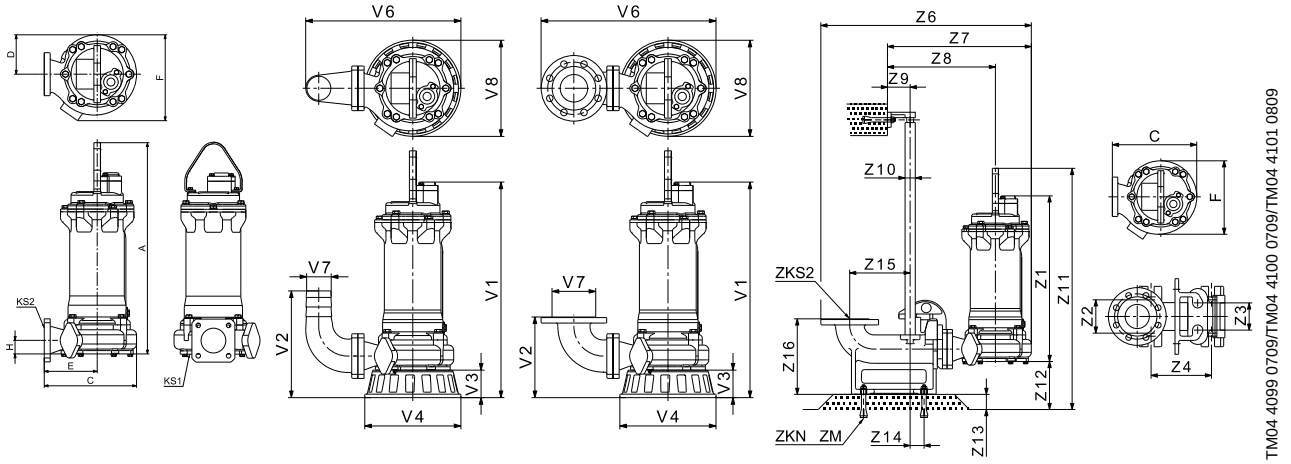
Performance curves DPK.10.80.22.5



TM04 2877 1409

Performance curves/ Technical data

Dimensional sketches



Dimensions

Pump type	Installation type	A	C	D	E	F	H	KS1	KS2	Weight [kg]
DPK.10.80.22	Without accessories	491	247	103	145	230	53	48	80	40

Pump type	Installation type	V1	V2, hose	V2, flange	V3	V4	V6, hose	V6, flange	V7, hose	V7, flange	V8
DPK.10.80.22	Ring stand	506	306	266	70	224	409	467	80	127	240

Pump type	Installation type	C	F	Z1	Z2	Z3	Z4	Z6	Z7	Z8	Z9	Z10	Z11	Z12	Z13	Z14	Z15	Z16	ZKS2	ZKN	ZM
DPK.10.80.22	Auto coupling	247	230	436	130	90	200	665	444	342	75	25A	646	155	50	46	200	250	80		M16 x 200

With 10 m cable

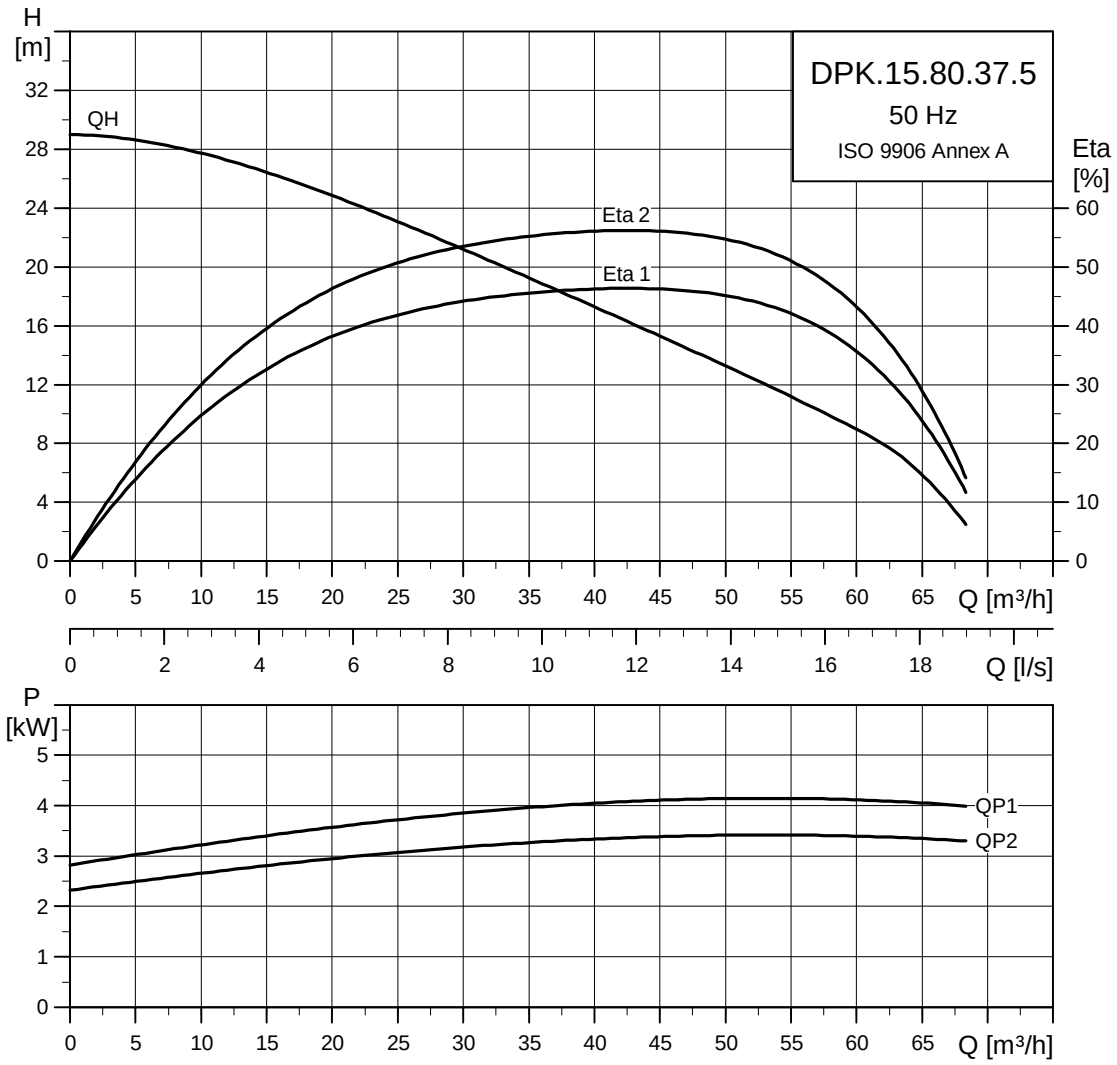
Electrical data

Pump type	Voltage [V]	P2 [kW]	RPM	Starting method	I_N	η_{motor} [%]			Cos φ			Cable
					[A]	1/2	3/4	1/1	1/2	3/4	1/1	
DPK.10.80.22.5.0D	3 x 380-415 V Y	2.2	2850	DOL	5.1	77.3	78.9	79.5	0.715	0.789	0.819	4 x 1.5 mm^2 + 4 x 1 mm^2
DPK.10.80.22.5.0E	3 x 220-240 V D	2.2	2850	DOL	8.9	77.3	78.9	79.5	0.715	0.789	0.819	4 x 1.5 mm^2 + 4 x 1 mm^2

Pump data

Pump type	Impeller type	Max. solids size [mm]	Max . number of starts per hour	Max. installation depth [m]	Enclosure class	Insulation class	Max. liquid temperature [°C]	pH
DPK.10.80.22	Semi-open	10	30	25	68	F	40	4-10

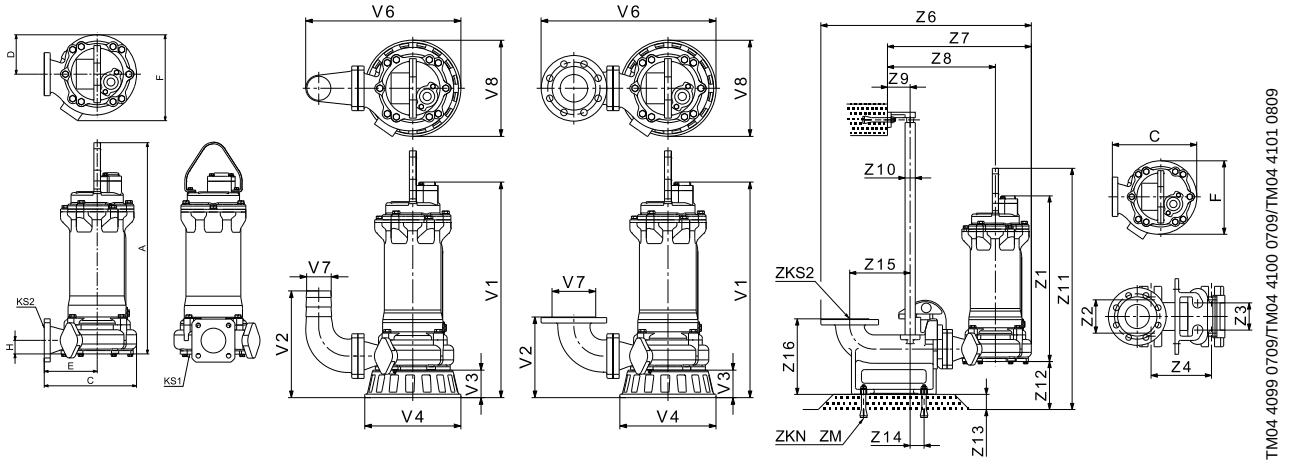
Performance curves DPK.15.80.37.5



TM04 2878 1409

Performance curves/ Technical data

Dimensional sketches



Dimensions

Pump type	Installation type	A	C	D	E	F	H	KS1	KS2	Weight [kg]
DPK.15.80.37	Without accessories	629	279	119	160	260	49	75	80	60

Pump type	Installation type	V1	V2, hose	V2, flange	V3	V4	V6, hose	V6, flange	V7, hose	V7, flange	V8
DPK.15.80.37	Ring stand	616	311	235	80	280	452	510	80	127	281

Pump type	Installation type	C	F	Z1	Z2	Z3	Z4	Z6	Z7	Z8	Z9	Z10	Z11	Z12	Z13	Z14	Z15	Z16	ZKS2	ZKN	ZM
DPK.15.80.37	Auto coupling	279	260	536	130	90	200	697	476	357	75	25A	788	159	50	46	200	250	80	4	M16 x 200

With 10 m cable

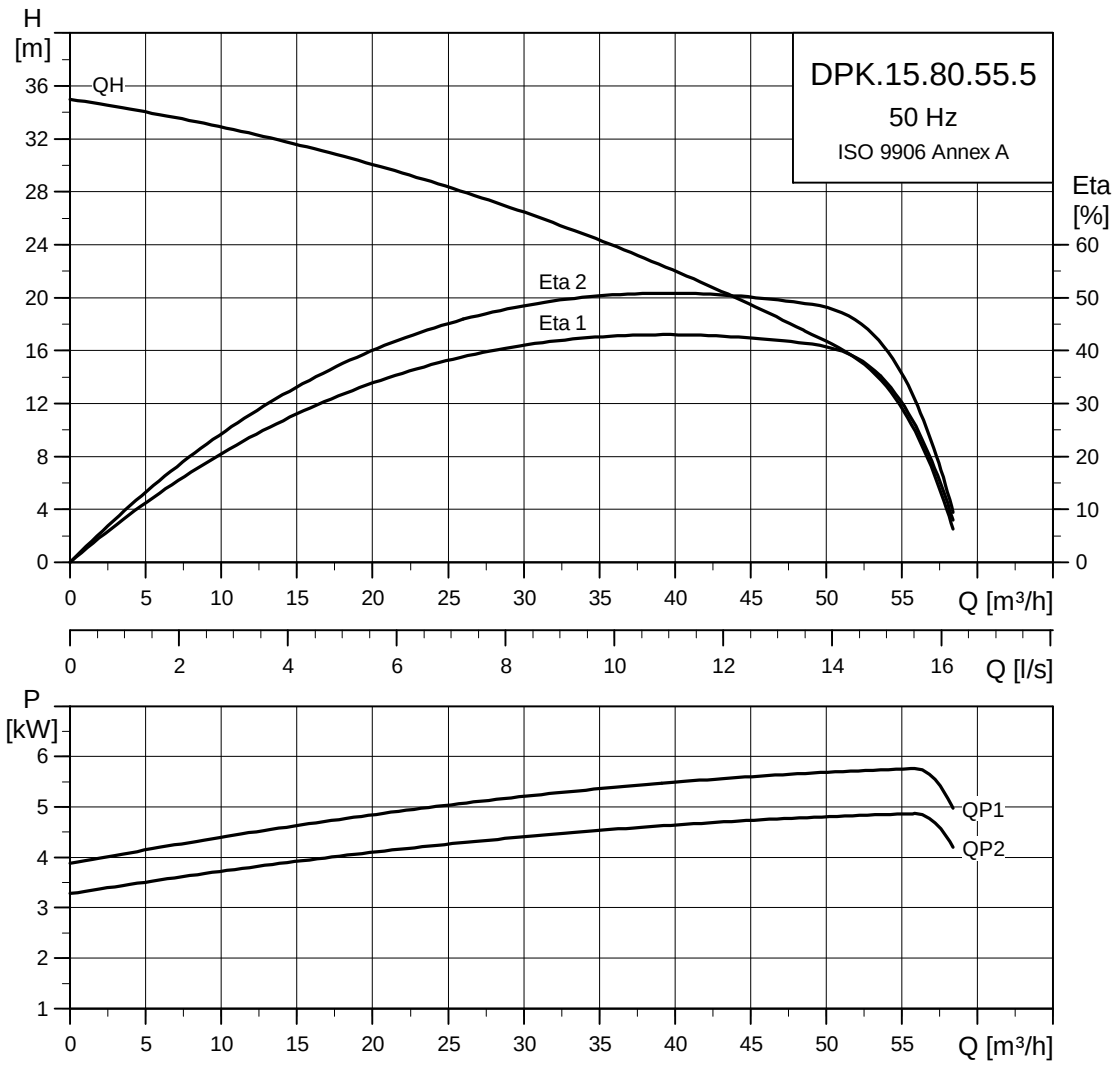
Electrical data

Pump type	Voltage [V]	P2 [kW]	RPM	Starting method	I_N	η_{motor} [%]			Cos φ			Cable
					[A]	1/2	3/4	1/1	1/2	3/4	1/1	
DPK.15.80.37.5.0D	3 x 380-415 V Y	3.7	2850	DOL	8.2	80.2	81.9	82.5	0.725	0.799	0.83	4 x 1.5 mm^2 + 4 x 1 mm^2
DPK.15.80.37.5.0E	3 x 220-240 V D	3.7	2850	DOL	14.2	80.2	81.9	82.5	0.725	0.799	0.83	4 x 2.5 mm^2 + 4 x 1 mm^2

Pump data

Pump type	Impeller type	Max. solids size [mm]	Max . number of starts per hour	Max. installation depth [m]	Enclosure class	Insulation class	Max. liquid temperature [°C]	pH
DPK.15.80.37	Semi-open	15	30	25	68	F	40	4-10

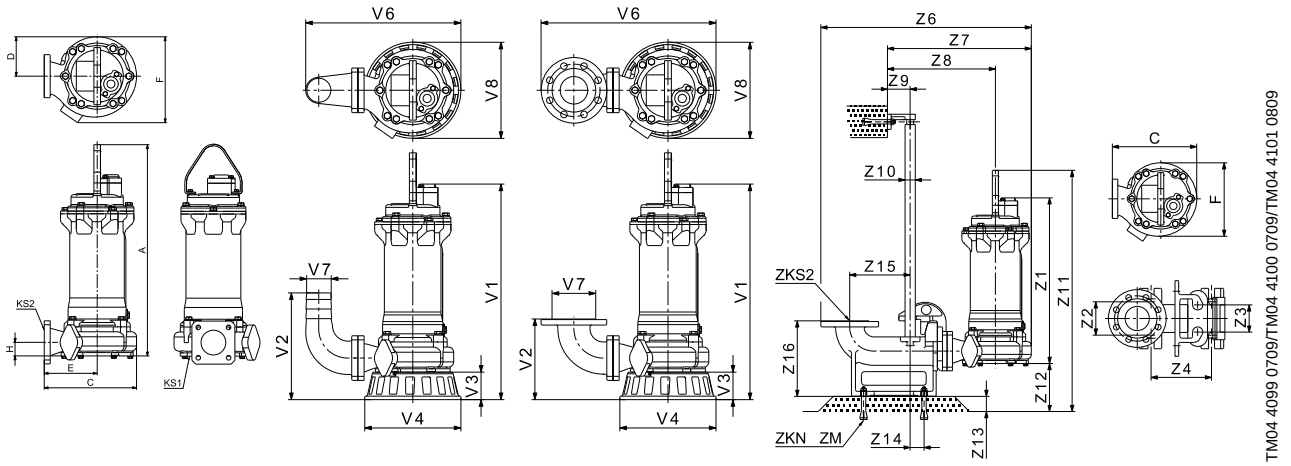
Performance curves DPK.15.80.55.5



TM4 2879 1409

Performance curves/ Technical data

Dimensional sketches



Dimensions

Pump type	Installation type	A	C	D	E	F	H	KS1	KS2	Weight [kg]
DPK.15.100.55	Without accessories	802	378	141	220	325	72	72	100	113

Pump type	Installation type	V1	V2, hose	V2, flange	V3	V4	V6, hose	V6, flange	V7, hose	V7, flange	V8
DPK.15.100.55	Ring stand	749	386	311	100	350	572	625	100	155	359

Pump type	Installation type	C	F	Z1	Z2	Z3	Z4	Z6	Z7	Z8	Z9	Z10	Z11	Z12	Z13	Z14	Z15	Z16	ZKS2	ZKN	ZM
DPK.15.100.55	Auto coupling	378	325	649	130	90	200	868	588	430	75	32A	991	189	50	51	250	350	80	4	M16 x 200

With 10 m cable

Electrical data

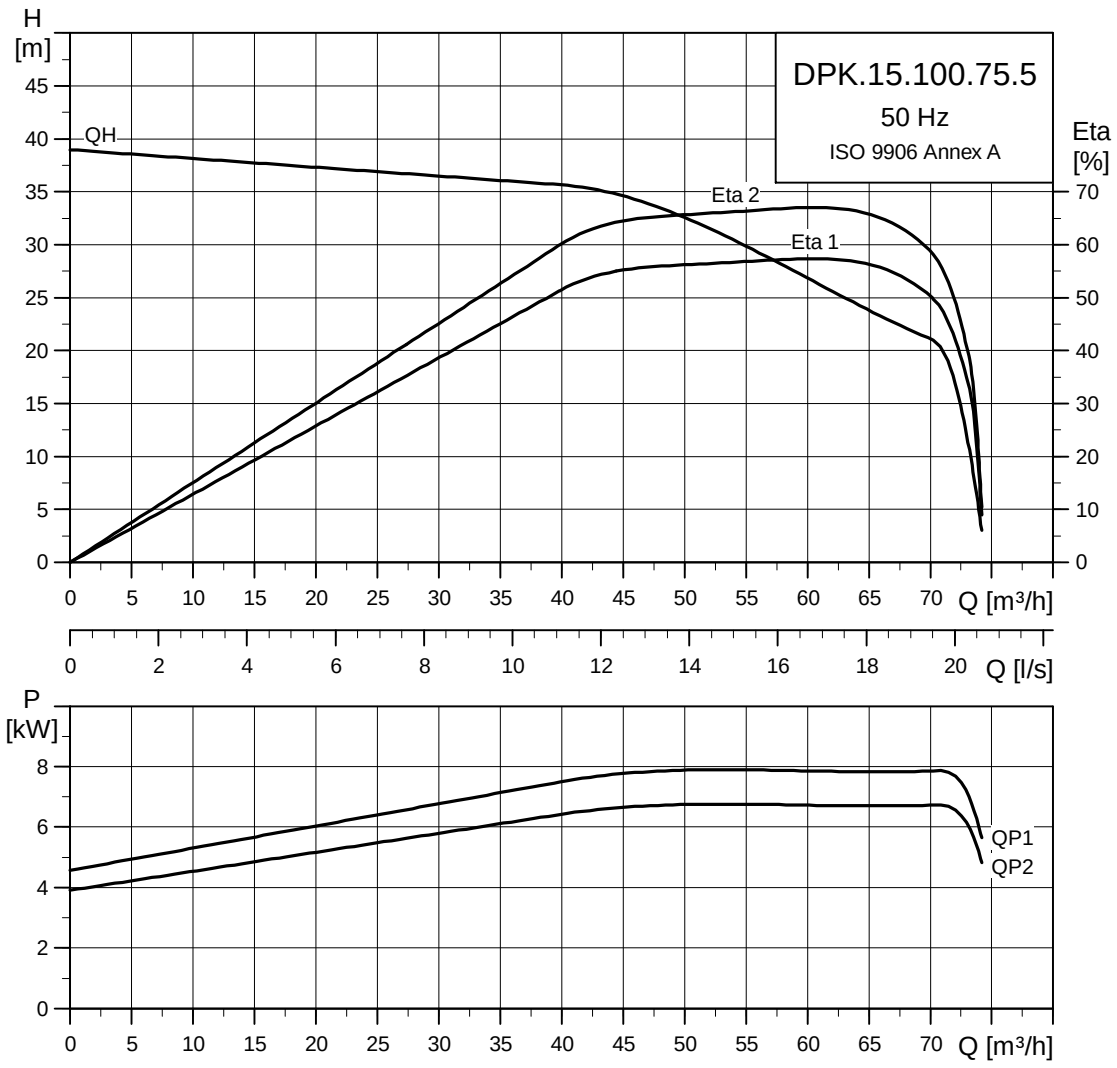
Pump type	Voltage [V]	P2 [kW]	RPM	Starting method	I_N	η_{motor} [%]			Cos φ			Cable
					[A]	1/2	3/4	1/1	1/2	3/4	1/1	
DPK.15.100.55.5.0D	3 x 380-415 V Y	5.5	2850	DOL	11.9	82.2	84	84.6	0.725	0.799	0.83	4 x 2.5 mm^2 + 4 x 1 mm^2
DPK.15.100.55.5.0E	3 x 220-240 V D	5.5	2850	DOL	20	82.2	84	84.6	0.725	0.799	0.83	4 x 4.0 mm^2 + 4 x 1 mm^2
DPK.15.100.55.5.1D	3 x 380-415 V Y	5.5	2850	Y/D	11.9	82.2	84	84.6	0.725	0.799	0.83	7 x 4.0 mm^2 + 4 x 1 mm^2
DPK.15.100.55.5.1E	3 x 220-240 V D	5.5	2850	Y/D	20	82.2	84	84.6	0.725	0.799	0.83	7 x 4.0 mm^2 + 4 x 1 mm^2

Pump data

Pump type	Impeller type	Max. solids size [mm]	Max . number of starts per hour	Max. installation depth [m]	Enclosure class	Insulation class	Max. liquid temperature [°C]	pH
DPK.15.100.55	Semi-open	15	30	25	68	F	40	4-10

Performance curves/ Technical data

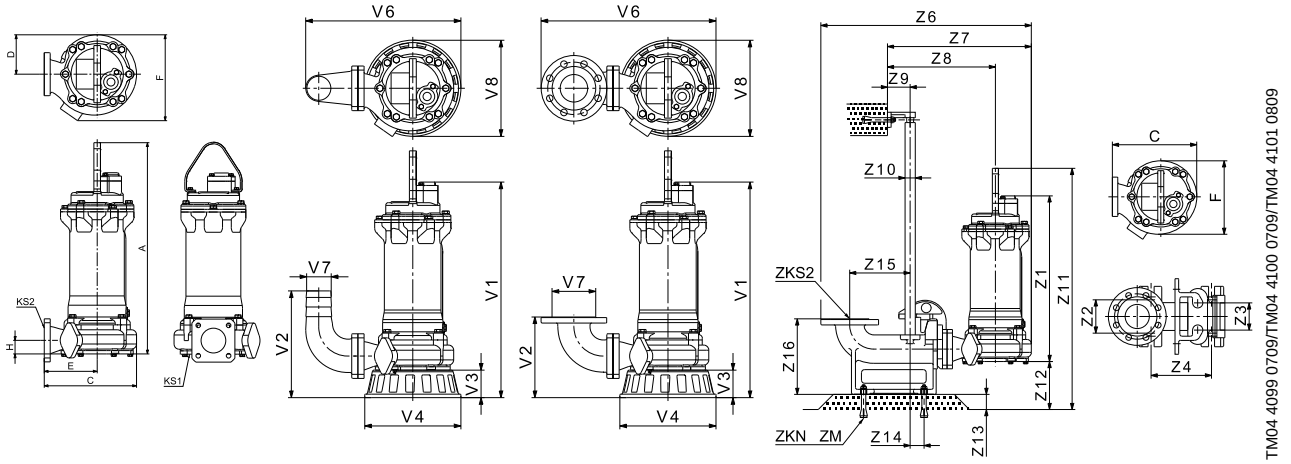
Performance curves DPK.15.100.75.5



TM04 2880 1409

Performance curves/ Technical data

Dimensional sketches



Dimensions

Pump type	Installation type	A	C	D	E	F	H	KS1	KS2	Weight [kg]
DPK.15.100.75	Without accessories	802	378	141	220	325	72	72	100	118

Pump type	Installation type	V1	V2, hose	V2, flange	V3	V4	V6, hose	V6, flange	V7, hose	V7, flange	V8
DPK.15.100.75	Ring stand	749	386	311	100	350	572	625	100	155	359

Pump type	Installation type	C	F	Z1	Z2	Z3	Z4	Z6	Z7	Z8	Z9	Z10	Z11	Z12	Z13	Z14	Z15	Z16	ZKS2	ZKN	ZM
DPK.15.100.75	Auto coupling	378	325	649	150	90	200	868	588	430	75	32A	991	189	50	51	250	350	100	4	M16 x 200

With 10 m cable

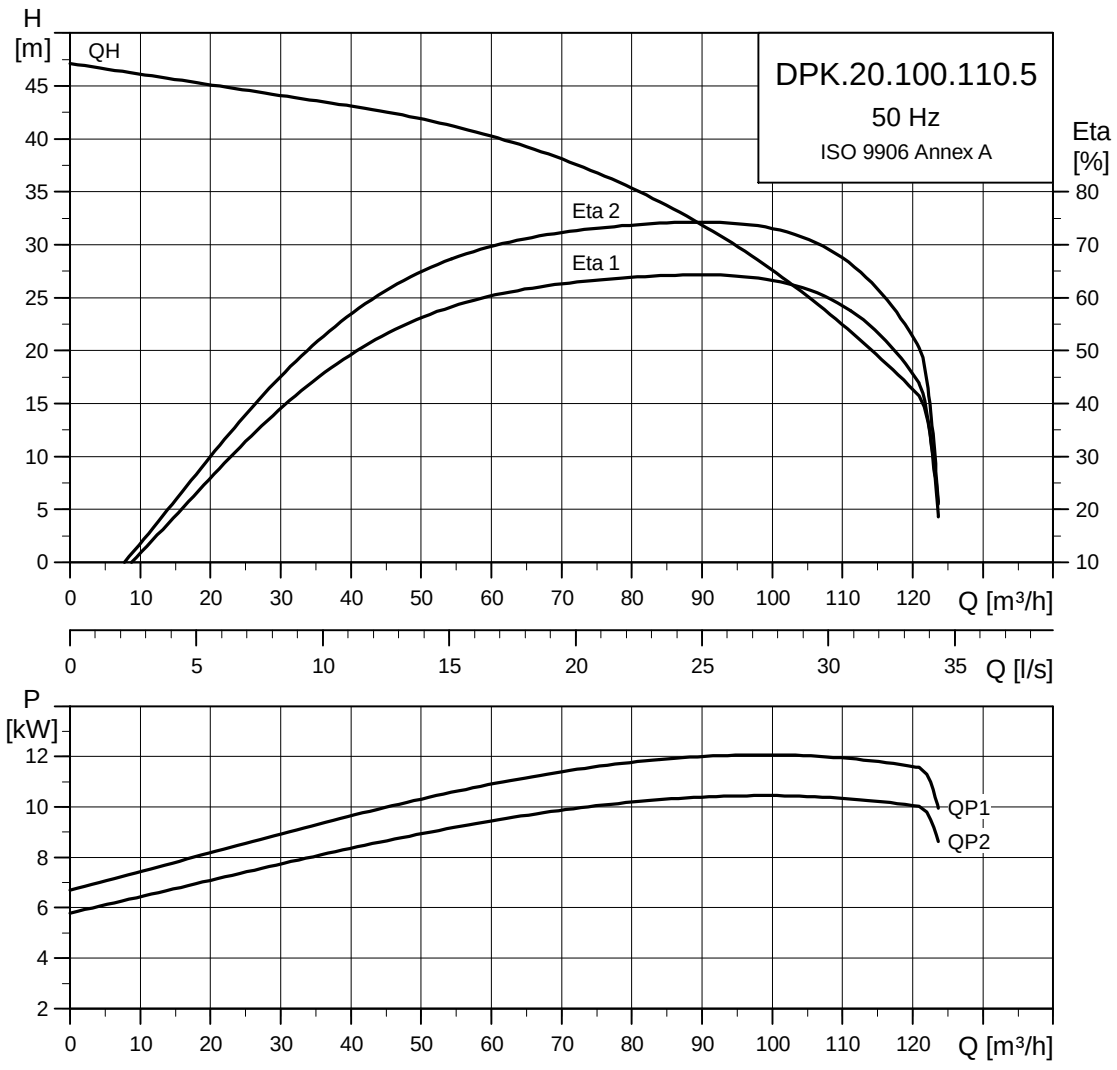
Electrical data

Pump type	Voltage [V]	P2 [kW]	RPM	Starting method	I_N	η_{motor} [%]			Cos φ			Cable
					[A]	1/2	3/4	1/1	1/2	3/4	1/1	
DPK.15.100.75.5.0D	3 x 380-415 V Y	7.5	2850	DOL	16	83.2	85	85.6	0.725	0.799	0.83	4 x 4.0 mm^2 + 4 x 1 mm^2
DPK.15.100.75.5.0E	3 x 220-240 V D	7.5	2850	DOL	27	83.2	85	85.6	0.725	0.799	0.83	4 x 6.0 mm^2 + 4 x 1 mm^2
DPK.15.100.75.5.1D	3 x 380-415 V Y	7.5	2850	Y/D	16	83.2	85	85.6	0.725	0.799	0.83	7 x 4.0 mm^2 + 4 x 1 mm^2
DPK.15.100.75.5.1E	3 x 220-240 V D	7.5	2850	Y/D	27	83.2	85	85.6	0.725	0.799	0.83	7 x 4.0 mm^2 + 4 x 1 mm^2

Pump data

Pump type	Impeller type	Max. solids size [mm]	Max . number of starts per hour	Max. installation depth [m]	Enclosure class	Insulation class	Max. liquid temperature [°C]	pH
DPK.15.100.75	Semi-open	15	30	25	68	F	40	4-10

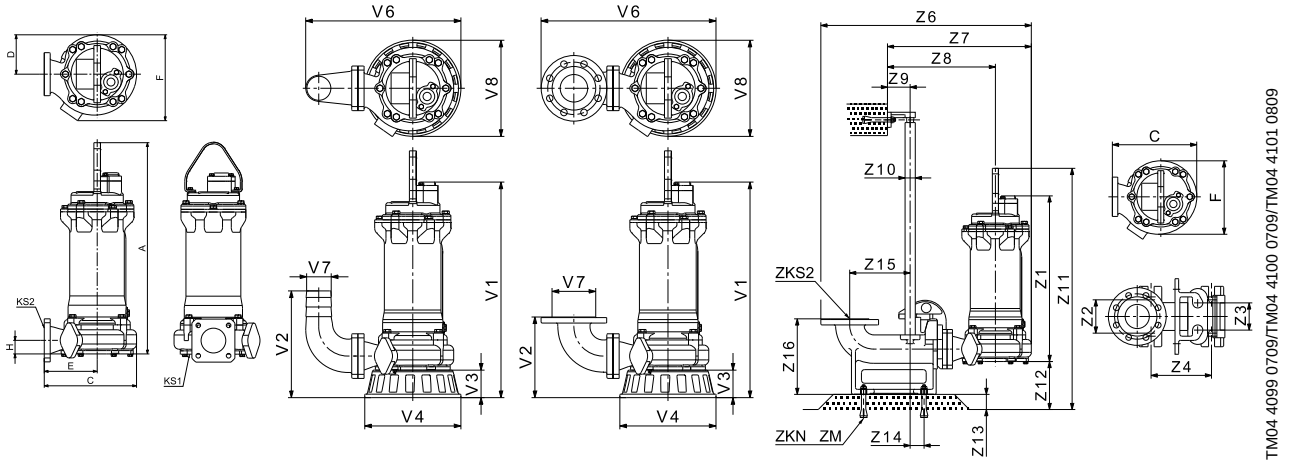
Performance curves DPK.20.100.110.5



TM04 2881 1409

Performance curves/ Technical data

Dimensional sketches



Dimensions

Pump type	Installation type	A	C	D	E	F	H	KS1	KS2	Weight [kg]
DPK.20.100.110	Without accessories	856	378	141	220	325	72	90	100	166

Pump type	Installation type	V1	V2, hose	V2, flange	V3	V4	V6, hose	V6, flange	V7, hose	V7, flange	V8
DPK.20.100.110	Ring stand	796	386	311	100	350	572	625	100	155	359

Pump type	Installation type	C	F	Z1	Z2	Z3	Z4	Z6	Z7	Z8	Z9	Z10	Z11	Z12	Z13	Z14	Z15	Z16	ZKS2	ZKN	ZM
DPK.20.100.110	Auto coupling	378	325	696	150	90	200	868	588	430	75	32A	1045	189	50	51	250	350	100	4	M16 x 200

With 10 m cable

Electrical data

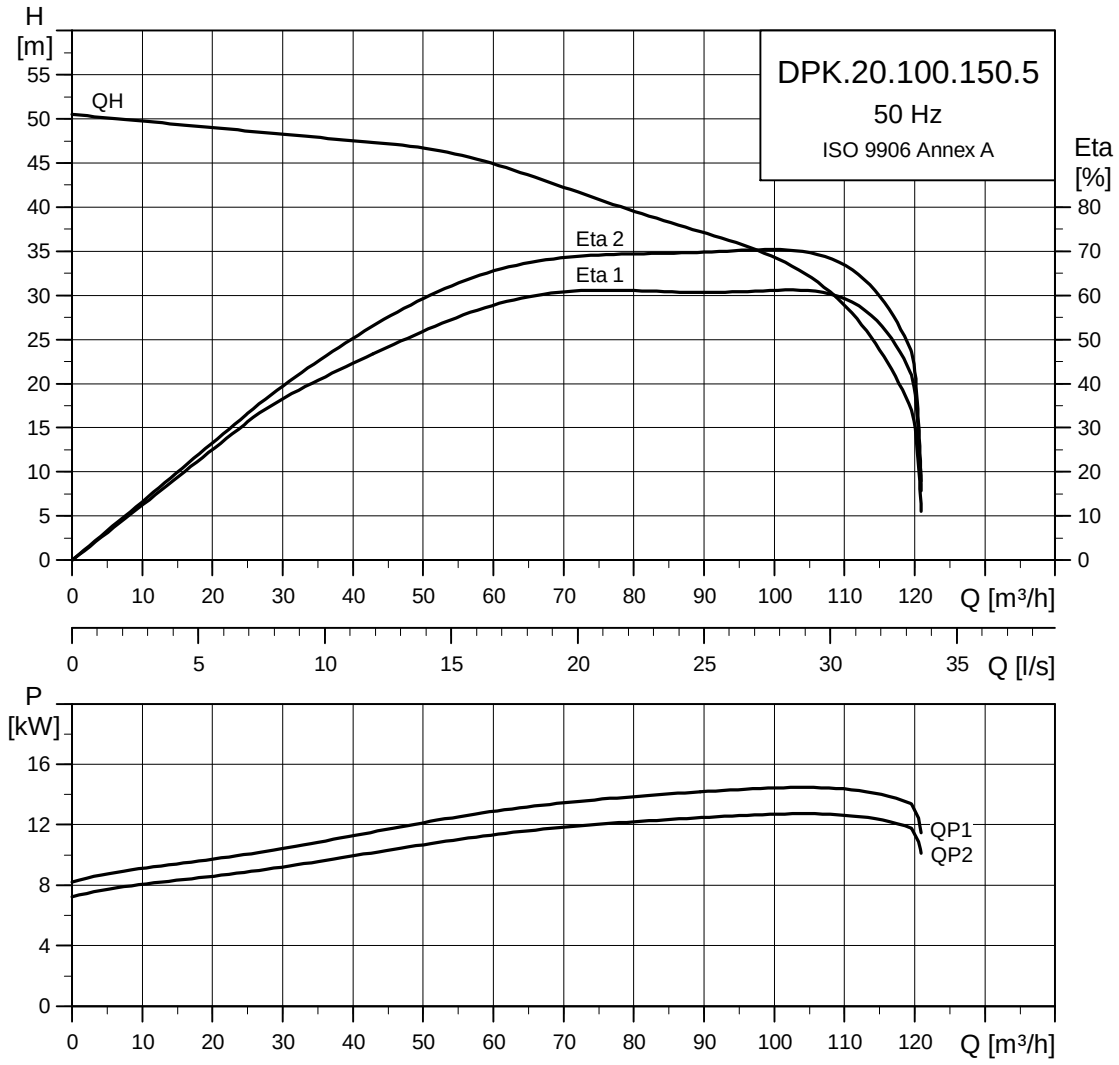
Pump type	Voltage [V]	P2 [kW]	RPM	Starting method	I_N	η_{motor} [%]			Cos φ			Cable
					[A]	1/2	3/4	1/1	1/2	3/4	1/1	
DPK.20.100.110.5.0D	3 x 380-415 V Y	11	2850	DOL	23	84.2	86	86.6	0.727	0.801	0.832	4 x 6.0 mm^2 + 4 x 1 mm^2
DPK.20.100.110.5.0E	3 x 220-240 V D	11	2850	DOL	40	84.2	86	86.6	0.727	0.801	0.832	4 x 10.0 mm^2 + 6 x 1 mm^2
DPK.20.100.110.5.1D	3 x 380-415 V Y	11	2850	Y/D	23	84.2	86	86.6	0.727	0.801	0.832	7 x 4.0 mm^2 + 4 x 1 mm^2
DPK.20.100.110.5.1E	3 x 220-240 V D	11	2850	Y/D	40	84.2	86	86.6	0.727	0.801	0.832	7 x 6.0 mm^2 + 6 x 1 mm^2

Pump data

Pump type	Impeller type	Max. solids size [mm]	Max . number of starts per hour	Max. installation depth [m]	Enclosure class	Insulation class	Max. liquid temperature [°C]	pH
DPK.20.100.110	Semi-open	20	30	25	68	F	40	4-10

Performance curves/ Technical data

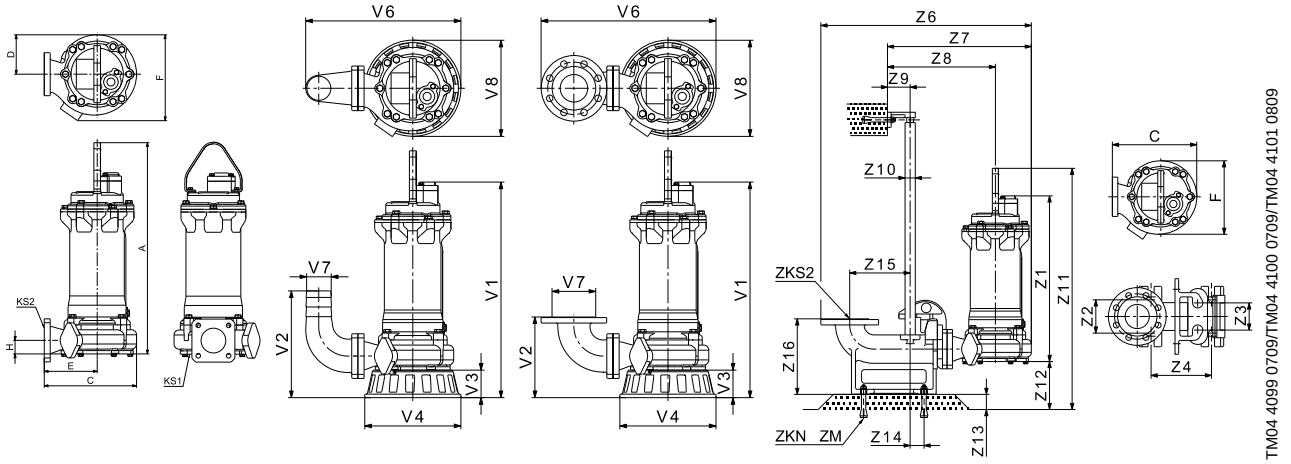
Performance curves DPK.20.100.150.5



TM04 2882 1409

Performance curves/ Technical data

Dimensional sketches



Dimensions

Pump type	Installation type	A	C	D	E	F	H	KS1	KS2	Weight [kg]
DPK.20.100.150	Without accessories	856	378	141	220	325	72	90	100	177

Pump type	Installation type	V1	V2, hose	V2, flange	V3	V4	V6, hose	V6, flange	V7, hose	V7, flange	V8
DPK.20.100.150	Ring stand	796	386	311	100	350	572	625	100	155	359

Pump type	Installation type	C	F	Z1	Z2	Z3	Z4	Z6	Z7	Z8	Z9	Z10	Z11	Z12	Z13	Z14	Z15	Z16	ZKS2	ZKN	ZM
DPK.20.100.150	Auto coupling	378	325	696	150	90	200	868	588	430	75	32A	1045	189	50	51	250	350	100	4	M16 x 200

With 10 m cable

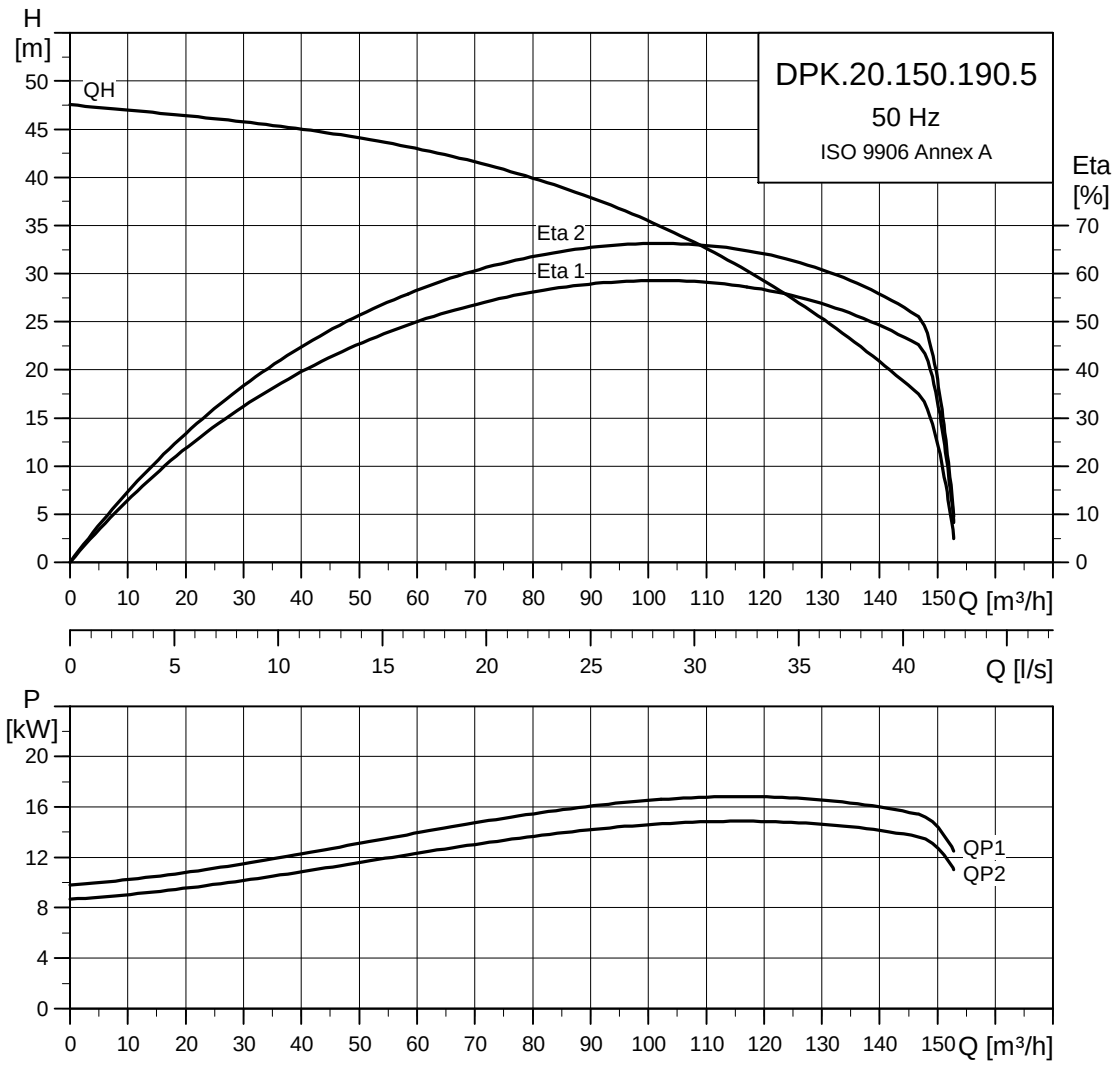
Electrical data

Pump type	Voltage [V]	P2 [kW]	RPM	Starting method	I_N	η_{motor} [%]			Cos φ			Cable
					[A]	1/2	3/4	1/1	1/2	3/4	1/1	
DPK.20.100.150.5.0D	3 x 380-415 V Y	15	2850	DOL	31	85.5	87.4	88	0.729	0.804	0.835	4 x 6.0 mm^2 + 4 x 1 mm^2
DPK.20.100.150.5.0E	3 x 220-240 V D	15	2850	DOL	53	85.5	87.4	88	0.729	0.804	0.835	4 x 10.0 mm^2 + 6 x 1 mm^2
DPK.20.100.150.5.1D	3 x 380-415 V Y	15	2850	Y/D	31	85.5	87.4	88	0.729	0.804	0.835	7 x 4.0 mm^2 + 4 x 1 mm^2
DPK.20.100.150.5.1E	3 x 220-240 V D	15	2850	Y/D	53	85.5	87.4	88	0.729	0.804	0.835	7 x 6.0 mm^2 + 6 x 1 mm^2

Pump data

Pump type	Impeller type	Max. solids size [mm]	Max . number of starts per hour	Max. installation depth [m]	Enclosure class	Insulation class	Max. liquid temperature [°C]	pH
DPK.20.100.150	Semi-open	20	30	25	68	F	40	4-10

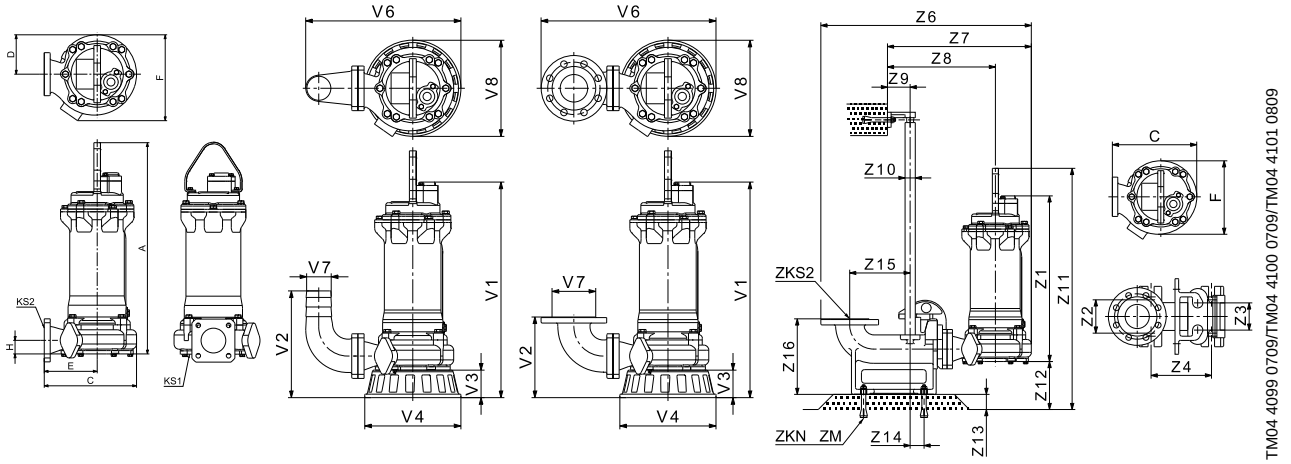
Performance curves DPK.20.150.190.5



TM04 2883 1409

Performance curves/ Technical data

Dimensional sketches



Dimensions

Pump type	Installation type	A	C	D	E	F	H	KS1	KS2	Weight [kg]
DPK.20.150.190	Without accessories	1023	483	189	280	416	113	108	150	300

Pump type	Installation type	V1	V2, hose	V2, flange	V3	V4	V6, hose	V6, flange	V7, hose	V7, flange	V8
DPK.20.150.190	Ring stand	1163	578	427	140	415	713	780	150	215	434

Pump type	Installation type	C	F	Z1	Z2	Z3	Z4	Z6	Z7	Z8	Z9	Z10	Z11	Z12	Z13	Z14	Z15	Z16	ZKS2	ZKN	ZM
DPK.20.150.190	Auto coupling	483	416	1023	300	150	300	1083	743	540	90	40A	1240	217	80	65	290	450	150	4	M20 * 200L

With 10 m cable

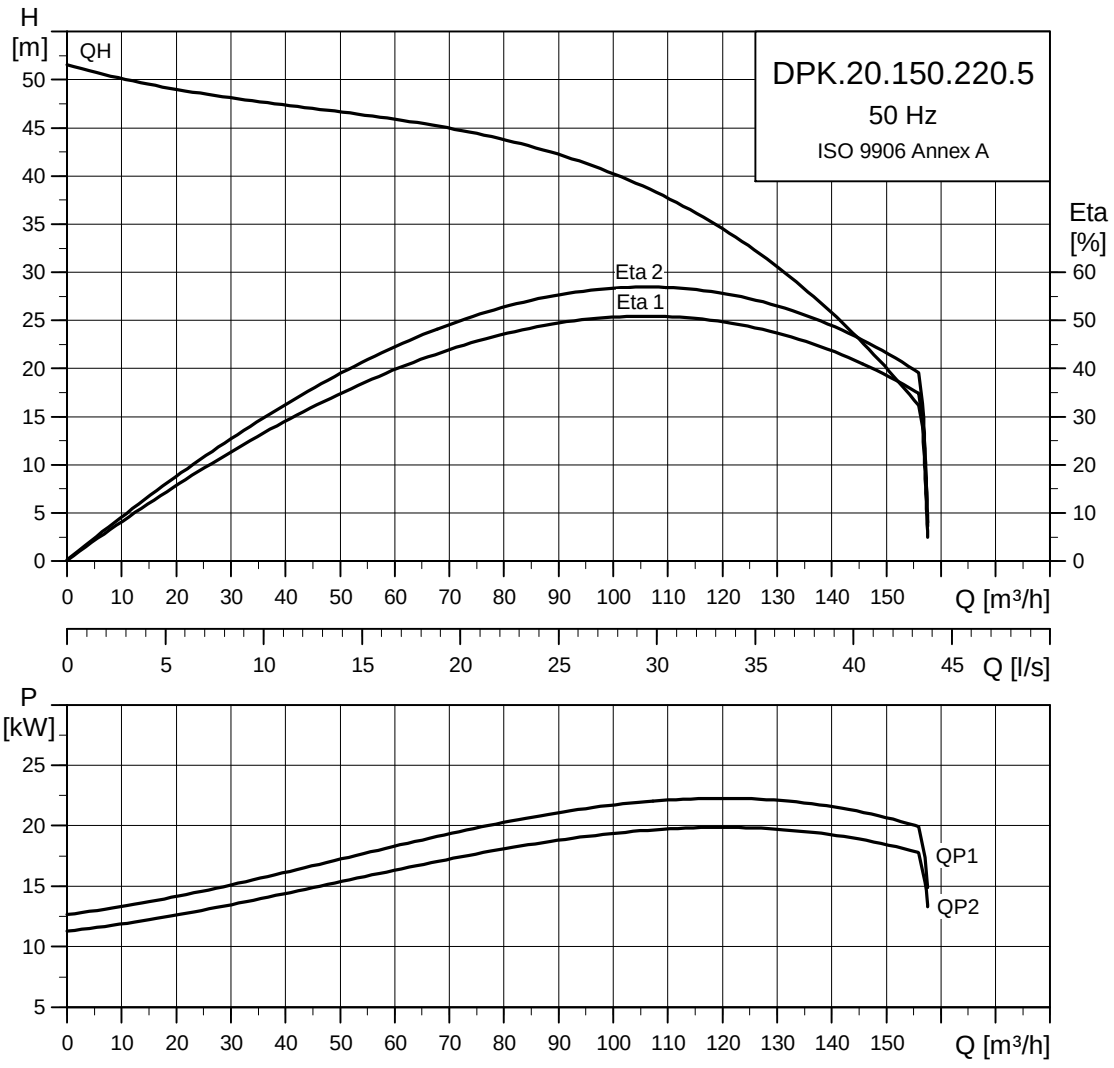
Electrical data

Pump type	Voltage [V]	P2 [kW]	RPM	Starting method	I_N	η_{motor} [%]			Cos φ			Cable
					[A]	1/2	3/4	1/1	1/2	3/4	1/1	
DPK.20.150.190.5.1D	3 x 380-415 V Y	19	2850	Y/D	36	85.9	87.8	88.4	0.772	0.851	0.884	7 x 6.0 mm^2 + 6 x 1 mm^2
DPK.20.150.190.5.1E	3 x 220-240 V D	19	2850	Y/D	63	85.9	87.8	88.4	0.772	0.851	0.884	7 x 10.0 mm^2 + 6 x 1 mm^2

Pump data

Pump type	Impeller type	Max. solids size [mm]	Max . number of starts per hour	Max. installation depth [m]	Enclosure class	Insulation class	Max. liquid temperature [°C]	pH
DPK.20.150.190	Semi-open	20	18	25	68	F	40	4-10

Performance curves DPK.20.150.220.5



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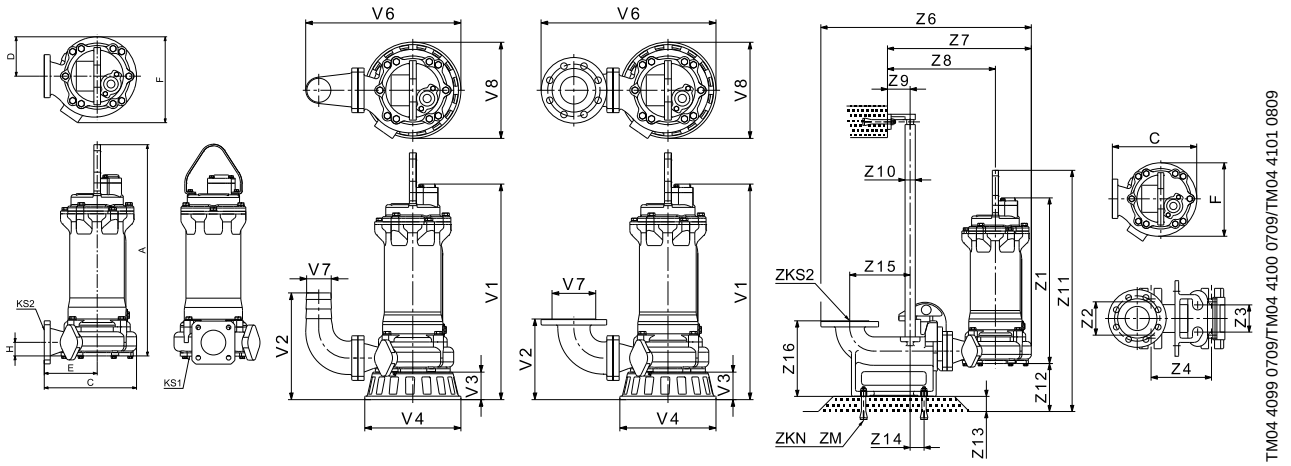
Performance curves/ Technical data

Dimensional sketches



Dimensions

Pump type	Installation type	A	C	D	E	F	H	KS1	KS2	Weight [kg]
DPK.20.150.220	Without accessories	1023	483	189	280	416	113	108	150	312

Pump type	Installation type	V1	V2, hose	V2, flange	V3	V4	V6, hose	V6, flange	V7, hose	V7, flange	V8
DPK.20.150.220	Ring stand	1163	578	427	140	415	713	780	150	215	434

Pump type	Installation type	C	F	Z1	Z2	Z3	Z4	Z6	Z7	Z8	Z9	Z10	Z11	Z12	Z13	Z14	Z15	Z16	ZKS2	ZKN	ZM
DPK.20.150.220	Auto coupling	483	416	1023	300	150	300	1083	743	540	90	40A	1240	217	80	65	290	450	150	4	M20 * 200L

With 10 m cable

Electrical data

Pump type	Voltage [V]	P2 [kW]	RPM	Starting method	I_N	η_{motor} [%]			Cos φ			Cable
					[A]	1/2	3/4	1/1	1/2	3/4	1/1	
DPK.20.150.220.5.1D	3 x 380-415 V Y	22	2850	Y/D	43	86.7	88.6	89.2	0.747	0.824	0.855	7 x 6.0 mm^2 + 6 x 1 mm^2
DPK.20.150.220.5.1E	3 x 220-240 V D	22	2850	Y/D	75	86.7	88.6	89.2	0.747	0.824	0.855	7 x 16.0 mm^2 + 6 x 1 mm^2

Pump data

Pump type	Impeller type	Max. solids size [mm]	Max . number of starts per hour	Max. installation depth [m]	Enclosure class	Insulation class	Max. liquid temperature [°C]	pH
DPK.20.150.220	Semi-open	20	18	25	68	F	40	4-10

Accessories DWK

Description		Dimensions	DWK.O [kW]								DWK.E [kW]							Product number
			0.75	1.5	2.2	3.7	5.5	7.5	11	15	22	30	37	45	55	75	90	
Chain with shackle, galvanized		10 m	X	X	X	X	X	X	X	X								96884370
		6 m	X	X	X	X	X	X	X	X								96884371
		3 m	X	X	X	X	X	X	X	X								96884372
Wire with clip, galvanized		10 m									X	X	X	X	X	X	X	96884373
		6 m									X	X	X	X	X	X	X	96884374
		3 m									X	X	X	X	X	X	X	96884375
Coupling half, Storz coupling																		
50 mm	O-ring	Ø3.1 x Ø60	X	X	X													96884376
	Screws	4 x M8 x 30 mm																
	Washers	4 x M8																
80 mm	O-ring	Ø3.1 x Ø60		X	X													96884377
	Screws	4 x M8 x 30 mm																
	Washers	4 x M8																
80 mm	O-ring	Ø3.1 x Ø105				X	X											96884378
	Screws	4 x M10 x 30 mm																
	Washers	4 x M10																
100 mm	O-ring	Ø3.1 x Ø105				X	X	X	X	X								96884379
	Screws	4 x M10 x 30 mm																
	Washers	4 x M10																
150 mm	O-ring	Ø3.1 x Ø105						X	X	X								96884380
	Screws	4 x M10 x 30 mm																
	Washers	4 x M10																
100 mm	O-ring	Ø3.5 x Ø150									X							96884381
	Screws	5 x M12 x 35 mm																
	Washers	5 x M12																
150 mm	O-ring	Ø3.1 x Ø158									X	X						96884382
	Screws	5 xM12 x 35 mm																
	Washers	5 x M12																
150 mm	O-ring	Ø5.7 x Ø180											X	X				96884383
	Screws	6 x M16 x 45 mm																
	Washers	6 x M16																
150 mm	O-ring	Ø5.7 x Ø180													X			96884384
	Screws	6 x M16 x 55 mm																
	Washers	6 x M16																
200 mm	O-ring	Ø5.7 x Ø180										X						96884385
	Screws	5 x M12 x 35 mm																
	Washers	5 x M12																
200 mm	O-ring	Ø5.7 x Ø180											X	X				96884386
	Screws	6 x M16 x 45 mm																
	Washers	6 x M16																
200 mm	O-ring	Ø5.7 x Ø180													X	X	X	96922516
	Screws	6 x M16 x 55 mm																
	Washers	6 x M16																
10 m flat hose incl. Storz clamp																		
50 mm			X	X	X													96922517
80 mm				X	X	X	X											96922518
100 mm						X	X	X	X	X	X							96922520
150 mm								X	X	X	X	X	X	X	X			96922521
200 mm												X	X	X	X	X	X	96922528
20 m flat hose incl. Storz clamp																		
50 mm			X	X	X													96922529
80 mm				X	X	X	X											96922530
100 mm						X	X	X	X	X	X							96922532
150 mm								X	X	X	X	X	X	X	X			96922533
200 mm												X	X	X	X	X	X	96922540

Description		Dimensions	DWK.O [kW]								DWK.E [kW]							Product number
			0.75	1.5	2.2	3.7	5.5	7.5	11	15	22	30	37	45	55	75	90	
Endless flat hose (sold by the metre, only 8") incl. Storz clamp																		
		200 mm											X	X				Contact Grundfos
		200 mm													X	X	X	
10 m rubber hose incl. Storz clamp																		
Rubber hose 10 m		50 mm	X	X	X													96922543
		80 mm		X	X	X	X											96922544
		100 mm				X	X	X	X	X	X	X						96922545
		150 mm						X	X	X	X	X	X	X	X			96922546
		200 mm											X	X	X	X	X	96922547
20 m rubber hose incl. Storz clamp																		
Rubber hose 20 m		50 mm	X	X	X													96922548
		80 mm		X	X	X	X											96922549
		100 mm				X	X	X	X	X	X	X						96922550
		150 mm						X	X	X	X	X	X	X	X			96922551
		200 mm											X	X	X	X	X	96922552
Endless rubber hose (sold by the metre, only 8") incl. storz clamp																		
		200 mm											X	X				Contact Grundfos
		200 mm													X	X	X	
Discharge flange, JIS, incl. flange coupling																		
50 mm	O-ring	Ø3.1 x Ø60	X	X	X													96922555
	Screws	4 x M8 x 30 mm																
	Washers	4 x M8																
80 mm	O-ring	Ø3.1 x Ø60		X	X													96922556
	Screws	4 x M8 x 30 mm																
	Washers	4 x M8																
80 mm	O-ring	Ø3.1 x Ø105				X	X											96922557
	Screws	4 x M10 x 30 mm																
	Washers	4 x M10																
100 mm	O-ring	Ø3.1 x Ø105				X	X	X	X	X								96922558
	Screws	4 x M10 x 30 mm																
	Washers	4 x M10																
150 mm	O-ring	Ø3.1 x Ø105						X	X	X								96922559
	Screws	4 x M10 x 30 mm																
	Washers	4 x M10																
100 mm	Gasket	150									X							96922560
	Screws	5 x M12 x 35 mm																
	Washers	5 x M12																
150 mm	Gasket	150									X	X						96922561
	Screws	5 x M12 x 35 mm																
	Washers	5 x M12																
150 mm	Gasket	150											X	X				96922562
	Screws	6 x M16 x 45 mm																
	Washers	6 x M16																
150 mm	Gasket	150													X			96922563
	Screws	6 x M16 x 55 mm																
	Washers	6 x M16																
200 mm	Gasket	150										X						96922564
	Screws	5 x M12 x 35 mm																
	Washers	5 x M12																
200 mm	Gasket	150											X	X				96922565
	Screws	6 x M16 x 45 mm																
	Washers	6 x M16																
200 mm	Gasket	150													X	X	X	96922566
	Screws	6 x M16 x 55 mm																
	Washers	16 x M6																

Description		Dimensions	DWK.O [kW]								DWK.E [kW]							Product number
			0.75	1.5	2.2	3.7	5.5	7.5	11	15	22	30	37	45	55	75	90	
Discharge flange, DIN, incl. flange coupling																		
	O-ring	Ø3.1 x Ø60																
50 mm	Screws	4 x M8 x 30 mm	X	X	X													96922567
	Washers	4 x M8																
	O-ring	Ø3.1 x Ø60																
80 mm	Screws	4 x M8 x 30 mm		X	X													96922568
	Washers	4 x M8																
	O-ring	Ø3.1 x Ø105																
80 mm	Screws	4 x M10 x 30 mm				X	X											96922569
	Washers	4 x M10																
	O-ring	Ø3.1 x Ø105																
100 mm	Screws	4 x M10 x 30 mm				X	X	X	X	X								96922570
	Washers	4 x M10																
	O-ring	Ø3.1 x Ø105																
150 mm	Screws	4 x M10 x 30 mm						X	X	X								96922571
	Washers	4 x M10																
	Gasket	150																
100 mm	Screws	5 x M12 x 35 mm									X							96922572
	Washers	5 x M12																
	Gasket	150																
150 mm	Screws	5 x M12 x 35 mm									X	X						96922573
	Washers	5 x M12																
	Gasket	150																
150 mm	Screws	6 x M16 x 45 mm											X	X				96922574
	Washers	6 x M16																
	Gasket	150																
150 mm	Screws	6 x M16 x 55 mm													X			96922575
	Washers	6 x M16																
	Gasket	150																
200 mm	Screws	5 x M12 x 35 mm										X						96922576
	Washers	5 x M12																
	Gasket	150																
200 mm	Screws	6 x M16 x 45 mm											X	X				96922577
	Washers	6 x M16																
	Gasket	150																
200 mm	Screws	6 x M16 x 55 mm													X	X	X	96922578
	Washers	6 x M16																
Discharge flange, ANSI, incl. flange coupling																		
	O-ring	Ø3.1 x Ø60																
2”	Screws	4 x M8 x 30 mm	X	X	X													96922579
	Washers	4 x M8																
	O-ring	Ø3.1 x Ø60																
3”	Screws	4 x M8 x 30 mm		X	X													96922580
	Washers	4 x M8																
	O-ring	Ø3.1 x Ø105																
3”	Screws	4 x M10 x 30 mm				X	X											96922581
	Washers	4 x M10																
	O-ring	Ø3.1 x Ø105																
4”	Screws	4 x M10 x 30 mm				X	X	X	X	X								96922582
	Washers	4 x M10																
	O-ring	Ø3.1 x Ø105																
6”	Screws	4 x M10 x 30 mm						X	X	X								96922583
	Washers	10																
	O-ring	150																
4”	Screws	5 x M12 x 35 mm									X							96922584
	Washers	5 x M12																
	O-ring	150																
6”	Screws	5 x M12 x 35 mm									X	X						96922585
	Washers	5 x M12																

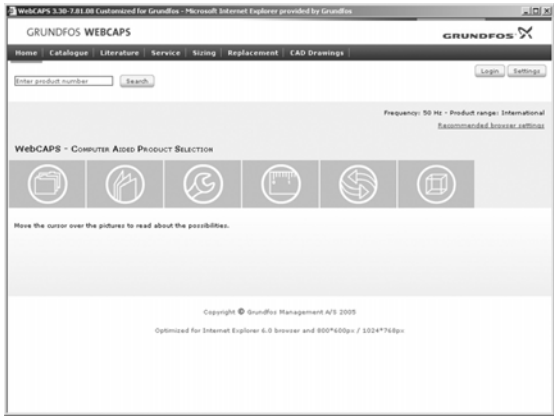
Description		Dimensions	DWK.O [kW]								DWK.E [kW]							Product number
			0.75	1.5	2.2	3.7	5.5	7.5	11	15	22	30	37	45	55	75	90	
6”	Gaskets	150																96922586
	Screws	6 x M16 x 45 mm											X	X				
	Washers	6 x M16																
6”	Gasket	150																96922587
	Screws	6 x M16 x 55 mm													X			
	Washers	6 x M16																
8”	Gasket	150																96922588
	Screws	5 x M12 x 35 mm										X						
	Washers	5 x M12																
8”	Gasket	150																96922589
	Screws	6 x M16 x 45 mm											X	X				
	Washers	6 x M16																
8”	Gasket	150																96922590
	Screws	6 x M16 x 55 mm													X	X	X	
	Washers	6 x M16																
Discharge for hose incl. hose coupling																		
50 mm	O-ring	∅3.1 x ∅60	X	X	X													96922591
	Screws	4 x M8 x 30 mm																
	Washers	4 x M8																
80 mm	O-ring	∅3.1 x ∅60		X	X													96922592
	Screws	4 x M8 x 30 mm																
	Washers	4 x M8																
80 mm	O-ring	∅3.1 x ∅105				X	X											96922593
	Screws	4 x M10 x 30 mm																
	Washers	4 x M10																
100 mm	O-ring	Ø3.1 x Ø105				X	X	X	X	X								96922594
	Screws	4 x M10 x 30 mm																
	Washers	4 x M10																
150 mm	O-ring	Ø3.1 x Ø105						X	X	X								96922595
	Screws	4 x M10 x 30 mm																
	Washers	4 x M10																
100 mm	O-ring	Ø3.5 x Ø150									X							96922596
	Screws	5 x M12 x 35 mm																
	Washers	5 x M12																
150 mm	O-ring	Ø3.1 x Ø158									X	X						96922597
	Screws	5 x M12 x 35 mm																
	Washers	5 x M12																
150 mm	O-ring	Ø5.7 x Ø180											X	X				96922598
	Screws	6 x M16 x 45 mm																
	Washers	6 x M16																
150 mm	O-ring	Ø5.7 x Ø180													X			96922599
	Screws	6 x M16 x 55 mm																
	Washers	6 x M16																
200 mm	O-ring	Ø5.7 x Ø180										X						96922600
	Screws	5 x M12 x 35 mm																
	Washers	5 x M12																
200 mm	O-ring	Ø5.7 x Ø180											X	X				96922601
	Screws	6 x M16 x 45 mm																
	Washers	6 x M16																
200 mm	O-ring	Ø5.7 x Ø180													X	X	X	96922602
	Screws	6 x M16 x 55 mm																
	Washers	6 x M16																
GU01			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	96922603
GU02						X	X	X	X	X	X	X	X	X	X	X	X	96922604

Accessories DPK

Description		Dimensions	DPK [kW]										Product number
			0.75	1.5	2.2	3.7	5.5	7.5	11	15	19	22	
Chain with shackle, galvanized		10 m	X	X	X	X	X	X	X	X			96884370
		6 m	X	X	X	X	X	X	X	X			96884371
		3 m	X	X	X	X	X	X	X	X			96884372
Wire with clip, galvanized		10 m									X	X	96884373
		6 m									X	X	96884374
		3 m									X	X	96884375
Rubber hose 10 m		50 mm	X	X									96922543
		80 mm			X	X	X						96922544
		100 mm						X	X	X			96922545
		150 mm									X	X	96922546
Rubber hose 10 m		50 mm	X	X									96922548
		80 mm			X	X	X						96922549
		100 mm						X	X	X			96922550
		150 mm									X	X	96922551
Discharge elbow for JIS flange incl. flange coupling													
50 mm	Gasket	50 mm	X	X									96922605
	Screws	4 x M10 x 30 mm											
	Washers	4 x M10											
80 mm	Gasket	80 mm			X	X	X						96922606
	Screws	4 x M12 x 35 mm											
	Washers	4 x M12											
100 mm	Gasket	100 mm						X	X	X			96922607
	Screws	4 x M12 x 40 mm											
	Washers	4 x M12											
150 mm	Gasket	150 mm									X	X	96922608
	Screws	4 x M12 x 40 mm											
	Washers	4 x M12											
Discharge elbow for DIN flange incl. flange coupling													
50 mm	Gasket	50 mm	X	X									96922609
	Screws	4 x M10 x 30 mm											
	Washers	4 x M10											
80 mm	Gasket	80 mm			X	X	X						96922610
	Screws	4 x M12 x 35 mm											
	Washers	4 x M12											
100 mm	Gasket	100 mm						X	X	X			96922611
	Screws	4 x M12 x 40 mm											
	Washers	4 x M12											
150 mm	Gasket	150 mm									X	X	96922612
	Screws	4 x M12 x 40 mm											
	Washers	4 x M12											
Discharges elbow for ANSI flange incl. flange coupling													
2”	Gasket	2"	X	X									96922613
	Screws	4 x M10 x 30 mm											
	Washers	4 x M10											
3”	Gasket	3"			X	X	X						96922614
	Screws	4 x M12 x 35 mm											
	Washers	4 x M12											
4”	Gasket	4"						X	X	X			96922615
	Screws	4 x M12 x 40 mm											
	Washers	4 x M12											
6”	Gasket	6"									X	X	96922616
	Screws	4 x M12 x 40 mm											
	Washers	4 x M12											

Description		Dimensions	DPK [kW]										Product number
			0.75	1.5	2.2	3.7	5.5	7.5	11	15	19	22	
Discharge elbow for hose connection incl. hose coupling													
50 mm	Gasket	50 mm	X	X									96922617
	Screws	4 x M10 x 30 mm											
	Washers	4 x M10											
80 mm	Gasket	80 mm			X	X	X						96922618
	Screws	4 x M12 x 35 mm											
	Washers	4 x M12											
100 mm	Gasket	100 mm						X	X	X			96922619
	Screws	4 x M12 x 40 mm											
	Washers	4 x M12											
150 mm	Gasket	150 mm									X	X	96922620
	Screws	4 x M12 x 40 mm											
	Washers	4 x M12											
	nuts	M12											
Auto coupling (ADC-T) for JIS flange - without anchor bolts and guide rails													
50 mm			X	X									96922621
80 mm					X	X	X						96922622
100 mm								X	X	X			96922623
150 mm											X	X	96922624
Auto coupling (ADC-T) for DIN flange - without anchor bolts and guide rails													
50 mm			X	X									96922625
80 mm					X	X	X						96936832
100 mm								X	X	X			96922627
150 mm											X	X	96922628
Auto coupling (ADC-T) for ANSI flange - without anchor bolts and guide rails													
2”			X	X									96922629
3”					X	X	X						96922630
4”								X	X	X			96922631
5”											X	X	96922632
Hydraulic seal	50 mm		X	X									96936839
	80 mm				X	X	X						96936840
	100 mm							X	X	X			96936841
	150 mm										X	X	96936842
Anchor bolts for auto coupling (ADC-T)	4 x M16 x 200 mm JIS 50 mm		X	X									96922633
	4 x M16 x 200 mm JIS 80 mm				X	X	X						96922634
	4 x M16 x 200 mm JIS 100 mm							X	X	X			96922635
	4 x M20 x 200 mm JIS 150 mm										X	X	96922636
Control system	GU01		X	X	X	X	X	X	X	X	X	X	96922603
	GU02					X	X	X	X	X	X	X	96922604
Ring stand incl. screws and washers													
WO-33P762024G0-CH	Screws	3 x M8 x 35 mm				X							96936843
	Washers	3 x M8											
WO-401162024G0-CH	Screws	3 x M12 x 45 mm					X	X	X	X			96936844
	Washers	3 x M12											
SE-45P564024G0	Screws	3 x M12 x 40 mm									X	X	96936845
	Washers	3 x M12											

WebCAPS



WebCAPS is a **Web**-based **C**omputer **A**ided **P**roduct **S**election program available on www.grundfos.com.

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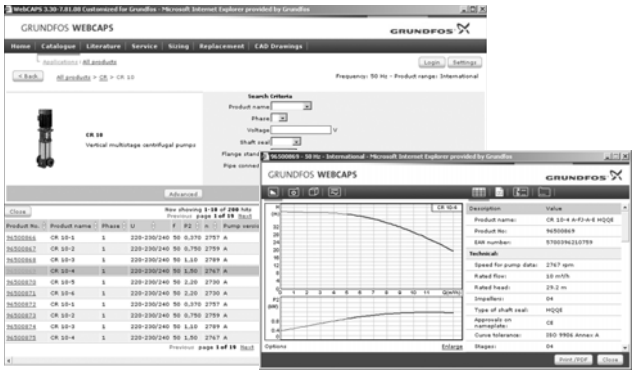
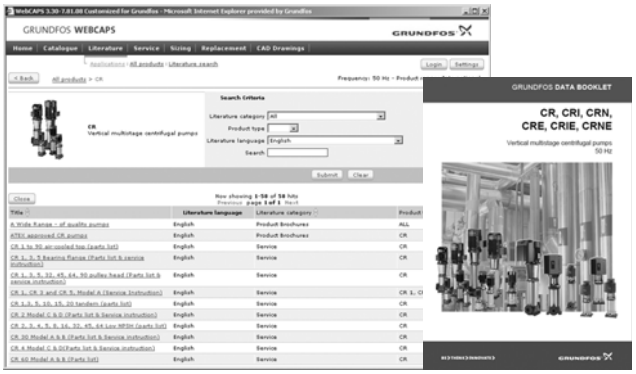
- Catalogue
- Literature
- Service
- Sizing
- Replacement
- CAD drawings.



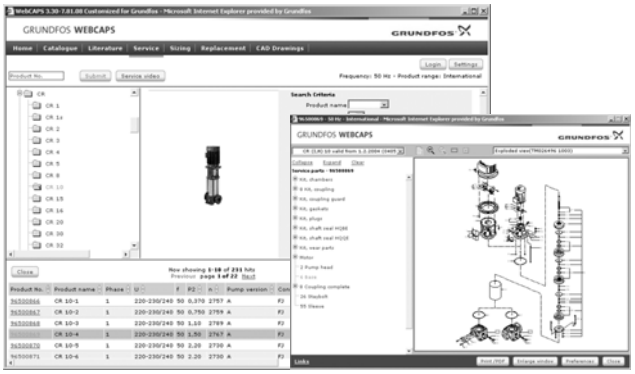
Catalogue

This section is based on fields of application and pump types, and contains
- technical data
- curves (QH, Eta, P1, P2, etc) which can be adapted to the density and viscosity of the pumped liquid and show the number of pumps in operation
- product photos
- dimensional drawings
- wiring diagrams
- quotation texts, etc.



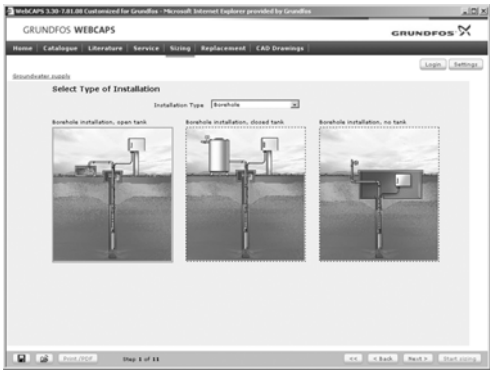
Literature

In this section you can access all the latest documents of a given pump, such as
- data booklets
- installation and operating instructions
- service documentation, such as Service kit catalogue and Service kit instructions
- quick guides
- product brochures.



Service

This section contains an easy-to-use interactive service catalogue. Here you can find and identify service parts of both existing and discontinued Grundfos pumps.
Furthermore, this section contains service videos showing you how to replace service parts.



Sizing

This section is based on different fields of application and installation examples, and gives easy step-by-step instructions in how to
- select the most suitable and efficient pump for your installation
- carry out advanced calculations based on energy consumption, payback periods, load profiles, life cycle costs, etc.
- analyse your selected pump via the built-in life cycle cost tool
- determine the flow velocity in wastewater applications, etc.

Replacement

In this section you find a guide to selecting and comparing replacement data of an installed pump in order to replace the pump with a more efficient Grundfos pump.
The section contains replacement data of a wide range of pumps produced by other manufacturers than Grundfos.

Based on an easy step-by-step guide, you can compare Grundfos pumps with the one you have installed on your site. When you have specified the installed pump, the guide will suggest a number of Grundfos pumps which can improve both comfort and efficiency.

CAD drawings

In this section it is possible to download 2-dimensional (2D) and 3-dimensional (3D) CAD drawings of most Grundfos pumps.

These formats are available in WebCAPS:

2-dimensional drawings:
- .dxf, wireframe drawings
- .dwg, wireframe drawings.

3-dimensional drawings:
- .dwg, wireframe drawings (without surfaces)
- .stp, solid drawings (with surfaces)
- .eprt, E-drawings.

WinCAPS

Fig. 38 WinCAPS CD-ROM

WinCAPS is a **Win**dows-based **C**omputer **A**ided **P**roduct **S**election program containing detailed information on more than 185,000 Grundfos products in more than 20 languages.

The program contains the same features and functions as WebCAPS, but is an ideal solution if no Internet connection is available.

WinCAPS is available on CD-ROM and updated once a year

Subject to alterations.

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