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DWK and DPK pumps

0.75 to 90 kW
50 Hz



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1. Introduction

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



GrA 8104 - GrA 8105

Fig. 1 DWK and DPK pumps 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 to 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.

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

DPK pumps up to and including 2.2 kW are supplied with ring stand.

DPK pumps of 3.7 kW and up are supplied without ring stand.

Ring stand, elbow or auto coupling for these pumps must be ordered as accessories.

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.

Discharge connection, DWK

- DIN flange coupling for standard versions
- hose coupling for R-version.

The pump discharge is available with hose or flange connection as standard, or without any connection as a variant.

Discharge connection, DPK

As standard, DPK pumps have no discharge connection. If the installation connection is required, ask for an adapter (e.g. a DIN, JIS or ANSI discharge elbow). See section *11. Accessories*.

The pump discharge is available with auto coupling (ADC-T) or discharge elbow as a variant.

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

DWK.O

- Watertight cable entry preventing water from penetrating into the motor.
- No extra cable required for sensors.
- Bimetallic thermal switch 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.0D.R.
- Built-in circuit breaker 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.0D.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 strainer for increased wear resistance when pumping water containing abrasives.
- Double mechanical shaft 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 switch 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 strainer 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 switch 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 shaft seal (SiC-SiC) for heavy-duty conditions.
- High-efficiency motor for high and stable performance and low operating costs.

2. 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 to 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									
	Pump version									
[-]	Standard									
R	Cast-iron pump with high-chrome stainless-steel impeller and stainless-steel 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 to 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.

Nameplate

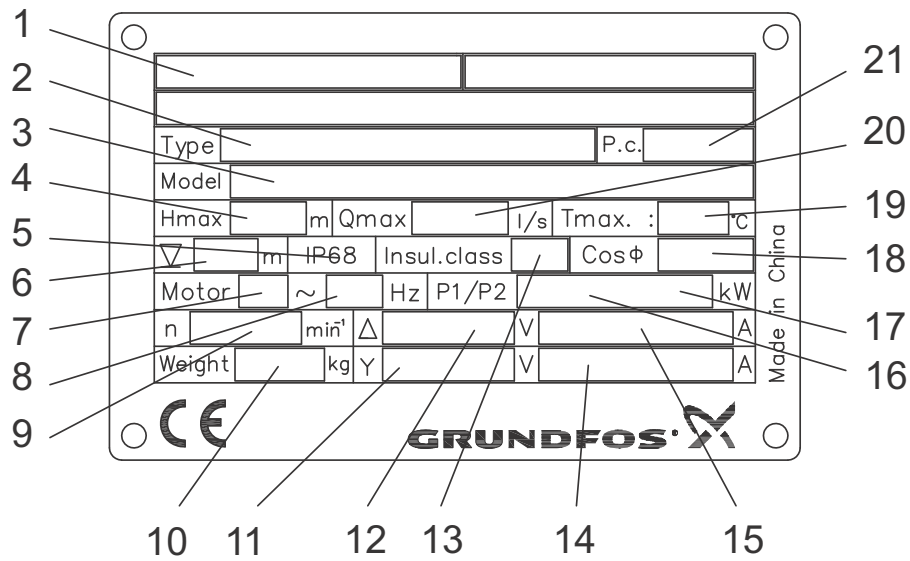


Fig. 2 DWK and DPK nameplate

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 [$^{\circ}\text{C}$]
20	Maximum flow [m^3/h]
21	Production code (year/week)

TM04 4093 0709

3. Selection of product

Ordering a pump

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

- pump type
- custom-built variant (option)
- accessories
- controller
- installation type and discharge connection type for DPK
- discharge connection type for DWK.

Pump

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

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

When you have selected the pump type, you can identify the specific pump that best meets your requirements in sections 5. *Product range*, page 10, and *Type keys*, page 5.

Note: Product-specific data for the pump can also be found in WebCAPS.

For further details about WebCAPS, see page 130.

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 and special materials.

Variants can be found in section *List of variants*, page 14. For requirements or designs not mentioned in the table, contact Grundfos.

Accessories

Depending on the installation type, accessories may be required. See section 11. *Accessories*, page 124, for selection of the correct accessories.

Note: Accessories ordered are not fitted from factory.

Monitoring units and controllers

The following monitoring units and controllers are available:

- GU01 (monitoring unit)
- GU02 (monitoring unit)
- LC/LCD 108 with float switches
- LC/LCD 110 with water level electrodes.

4. Performance range

Performance range

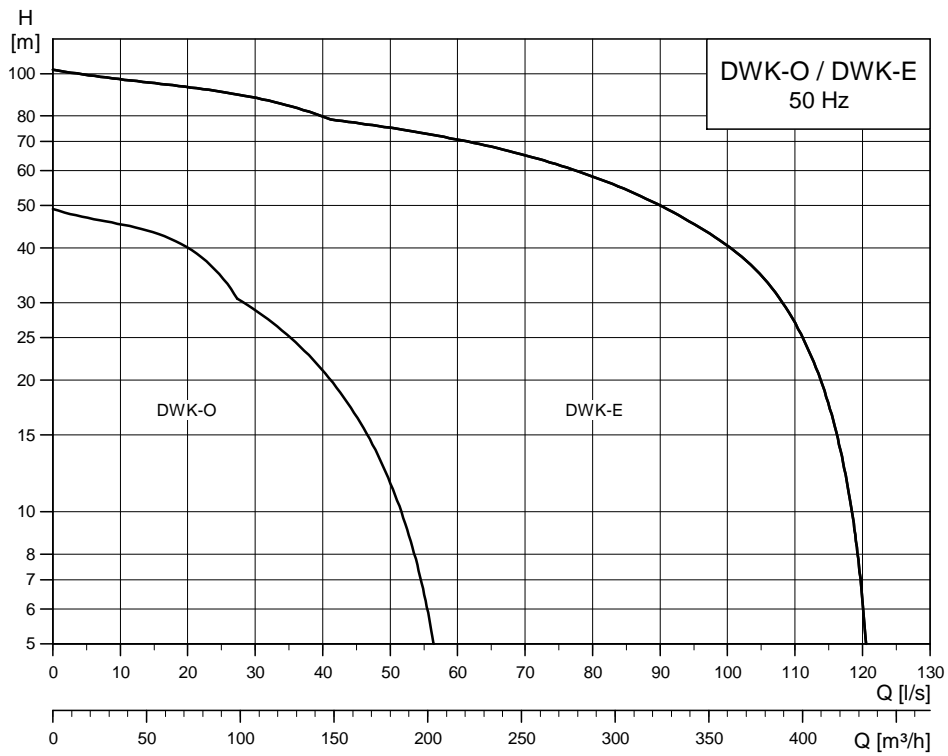


Fig. 3 Performance range, DWK

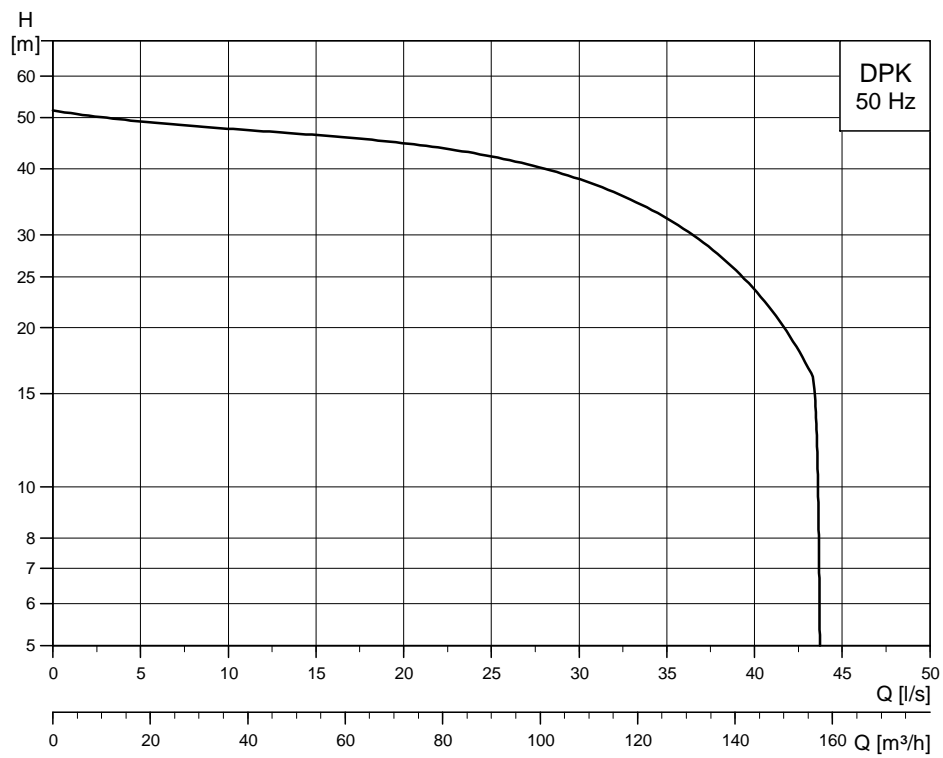


Fig. 4 Performance range, DPK

TM04 2949 1809

TM04 2859 1409

Curves for a specific pump can be found in section 10. *Performance curves/technical data*, page 50. The table below indicates on which pages the curve charts for the pump types mentioned can be found.

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.10.100.37	64
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

5. Product range

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 Y	DOL	Bimetallic thermal switch	Semi-open	96922639
DWK.O.6.50.075.5.0E	3 x 220-240 D	DOL	Bimetallic thermal switch	Semi-open	96922640
DWK.O.6.50.075.5.0D.R	3 x 380-415 Y	DOL	Circuit breaker	Semi-open	96922719
DWK.O.6.50.075.5.0E.R	3 x 220-240 D	DOL	Circuit breaker	Semi-open	96922720
DWK.O.6.50.15.5.0D	3 x 380-415 Y	DOL	Bimetallic thermal switch	Semi-open	96922641
DWK.O.6.50.15.5.0E	3 x 220-240 D	DOL	Bimetallic thermal switch	Semi-open	96922642
DWK.O.6.50.15.5.0D.R	3 x 380-415 Y	DOL	Circuit breaker	Semi-open	96922721
DWK.O.6.50.15.5.0E.R	3 x 220-240 D	DOL	Circuit breaker	Semi-open	96922722
DWK.O.6.50.22.5.0D	3 x 380-415 Y	DOL	Bimetallic thermal switch	Semi-open	96922645
DWK.O.6.50.22.5.0E	3 x 220-240 D	DOL	Bimetallic thermal switch	Semi-open	96922646
DWK.O.6.50.22.5.0D.R	3 x 380-415 Y	DOL	Circuit breaker	Semi-open	96922725
DWK.O.6.50.22.5.0E.R	3 x 220-240 D	DOL	Circuit breaker	Semi-open	96922726
DWK.O.6.80.15.5.0D	3 x 380-415 Y	DOL	Bimetallic thermal switch	Semi-open	96922643
DWK.O.6.80.15.5.0E	3 x 220-240 D	DOL	Bimetallic thermal switch	Semi-open	96922644
DWK.O.6.80.15.5.0D.R	3 x 380-415 Y	DOL	Circuit breaker	Semi-open	96922723
DWK.O.6.80.15.5.0E.R	3 x 220-240 D	DOL	Circuit breaker	Semi-open	96922724
DWK.O.6.80.22.5.0D	3 x 380-415 Y	DOL	Bimetallic thermal switch	Semi-open	96922647
DWK.O.6.80.22.5.0E	3 x 220-240 D	DOL	Bimetallic thermal switch	Semi-open	96922648
DWK.O.6.80.22.5.0D.R	3 x 380-415 Y	DOL	Circuit breaker	Semi-open	96922727
DWK.O.6.80.22.5.0E.R	3 x 220-240 D	DOL	Circuit breaker	Semi-open	96922728
DWK.O.10.100.37.5.0D	3 x 380-415 Y	DOL	Bimetallic thermal switch	Semi-open	96922651
DWK.O.10.100.37.5.0E	3 x 220-240 D	DOL	Bimetallic thermal switch	Semi-open	96922652
DWK.O.10.100.37.5.0D.R	3 x 380-415 Y	DOL	Circuit breaker	Semi-open	96922731
DWK.O.10.100.37.5.0E.R	3 x 220-240 D	DOL	Bimetallic thermal switch	Semi-open	96922732
DWK.O.10.80.37.5.0D	3 x 380-415 Y	DOL	Bimetallic thermal switch	Semi-open	96922649
DWK.O.10.80.37.5.0E	3 x 220-240 D	DOL	Bimetallic thermal switch	Semi-open	96922650
DWK.O.10.80.37.5.0D.R	3 x 380-415 Y	DOL	Circuit breaker	Semi-open	96922729
DWK.O.10.80.37.5.0E.R	3 x 220-240 D	DOL	Bimetallic thermal switch	Semi-open	96922730
DWK.O.13.80.55.5.0D	3 x 380-415 Y	DOL	Bimetallic thermal switch	Semi-open	96922653
DWK.O.13.80.55.5.0E	3 x 220-240 D	DOL	Bimetallic thermal switch	Semi-open	96922654
DWK.O.13.80.55.5.0D.R	3 x 380-415 Y	DOL	Bimetallic thermal switch	Semi-open	96922733
DWK.O.13.80.55.5.0E.R	3 x 220-240 D	DOL	Bimetallic thermal switch	Semi-open	96922734
DWK.O.13.80.55.5.1D	3 x 380-415 Y	Y/D	Bimetallic thermal switch	Semi-open	96926046
DWK.O.13.80.55.5.1E	3 x 220-240 D	Y/D	Bimetallic thermal switch	Semi-open	96926047
DWK.O.13.80.55.5.1D.R	3 x 380-415 Y	Y/D	Bimetallic thermal switch	Semi-open	96926078
DWK.O.13.80.55.5.1E.R	3 x 220-240 D	Y/D	Bimetallic thermal switch	Semi-open	96926079
DWK.O.13.100.55.5.0D	3 x 380-415 Y	DOL	Bimetallic thermal switch	Semi-open	96922655
DWK.O.13.100.55.5.0E	3 x 220-240 D	DOL	Bimetallic thermal switch	Semi-open	96922656
DWK.O.13.100.55.5.0D.R	3 x 380-415 Y	DOL	Bimetallic thermal switch	Semi-open	96922735
DWK.O.13.100.55.5.0E.R	3 x 220-240 D	DOL	Bimetallic thermal switch	Semi-open	96922736
DWK.O.13.100.55.5.1D	3 x 380-415 Y	Y/D	Bimetallic thermal switch	Semi-open	96926048
DWK.O.13.100.55.5.1E	3 x 220-240 D	Y/D	Bimetallic thermal switch	Semi-open	96926049
DWK.O.13.100.55.5.1D.R	3 x 380-415 Y	Y/D	Bimetallic thermal switch	Semi-open	96926080
DWK.O.13.100.55.5.1E.R	3 x 220-240 D	Y/D	Bimetallic thermal switch	Semi-open	96926081
DWK.O.13.100.75.5.0D	3 x 380-415 Y	DOL	Bimetallic thermal switch	Semi-open	96922657
DWK.O.13.100.75.5.0E	3 x 220-240 D	DOL	Bimetallic thermal switch	Semi-open	96922658
DWK.O.13.100.75.5.0D.R	3 x 380-415 Y	DOL	Bimetallic thermal switch	Semi-open	96922737
DWK.O.13.100.75.5.0E.R	3 x 220-240 D	DOL	Bimetallic thermal switch	Semi-open	96922738
DWK.O.13.100.75.5.1D	3 x 380-415 Y	Y/D	Bimetallic thermal switch	Semi-open	96926050
DWK.O.13.100.75.5.1E	3 x 220-240 D	Y/D	Bimetallic thermal switch	Semi-open	96926051
DWK.O.13.100.75.5.1D.R	3 x 380-415 Y	Y/D	Bimetallic thermal switch	Semi-open	96926082
DWK.O.13.100.75.5.1E.R	3 x 220-240 D	Y/D	Bimetallic thermal switch	Semi-open	96926083
DWK.O.13.100.110.5.0D	3 x 380-415 Y	DOL	Bimetallic thermal switch	Semi-open	96922661
DWK.O.13.100.110.5.0E	3 x 220-240 D	DOL	Bimetallic thermal switch	Semi-open	96922662
DWK.O.13.100.110.5.0D.R	3 x 380-415 Y	DOL	Bimetallic thermal switch	Semi-open	96922741
DWK.O.13.100.110.5.0E.R	3 x 220-240 D	DOL	Bimetallic thermal switch	Semi-open	96922742
DWK.O.13.100.110.5.1D	3 x 380-415 Y	Y/D	Bimetallic thermal switch	Semi-open	96926054
DWK.O.13.100.110.5.1E	3 x 220-240 D	Y/D	Bimetallic thermal switch	Semi-open	96926055
DWK.O.13.100.110.5.1D.R	3 x 380-415 Y	Y/D	Bimetallic thermal switch	Semi-open	96926086
DWK.O.13.100.110.5.1E.R	3 x 220-240 D	Y/D	Bimetallic thermal switch	Semi-open	96926087
DWK.O.13.100.150.5.0D	3 x 380-415 Y	DOL	Bimetallic thermal switch	Semi-open	96922665
DWK.O.13.100.150.5.0D.R	3 x 380-415 Y	DOL	Bimetallic thermal switch	Semi-open	96922745
DWK.O.13.100.150.5.0E	3 x 220-240 D	DOL	Bimetallic thermal switch	Semi-open	96925963
DWK.O.13.100.150.5.0E.R	3 x 220-240 D	DOL	Bimetallic thermal switch	Semi-open	96925989
DWK.O.13.100.150.5.1D	3 x 380-415 Y	Y/D	Bimetallic thermal switch	Semi-open	96926058

Pump type	Voltage [V]	Starting method	Thermal protection	Impeller type	Product number
DWK.O.13.100.150.5.1E	3 x 220-240 D	Y/D	Bimetallic thermal switch	Semi-open	96926059
DWK.O.13.100.150.5.1D.R	3 x 380-415 Y	Y/D	Bimetallic thermal switch	Semi-open	96926090
DWK.O.13.100.150.5.1E.R	3 x 220-240 D	Y/D	Bimetallic thermal switch	Semi-open	96926091
DWK.O.13.150.75.5.0D	3 x 380-415 Y	DOL	Bimetallic thermal switch	Semi-open	96922659
DWK.O.13.150.75.5.0E	3 x 220-240 D	DOL	Bimetallic thermal switch	Semi-open	96922660
DWK.O.13.150.75.5.0D.R	3 x 380-415 Y	DOL	Bimetallic thermal switch	Semi-open	96922739
DWK.O.13.150.75.5.0E.R	3 x 220-240 D	DOL	Bimetallic thermal switch	Semi-open	96922740
DWK.O.13.150.75.5.1D	3 x 380-415 Y	Y/D	Bimetallic thermal switch	Semi-open	96926052
DWK.O.13.150.75.5.1E	3 x 220-240 D	Y/D	Bimetallic thermal switch	Semi-open	96926053
DWK.O.13.150.75.5.1D.R	3 x 380-415 Y	Y/D	Bimetallic thermal switch	Semi-open	96926084
DWK.O.13.150.75.5.1E.R	3 x 220-240 D	Y/D	Bimetallic thermal switch	Semi-open	96926085
DWK.O.13.150.110.5.0D	3 x 380-415 Y	DOL	Bimetallic thermal switch	Semi-open	96922663
DWK.O.13.150.110.5.0E	3 x 220-240 D	DOL	Bimetallic thermal switch	Semi-open	96922664
DWK.O.13.150.110.5.0D.R	3 x 380-415 Y	DOL	Bimetallic thermal switch	Semi-open	96922743
DWK.O.13.150.110.5.0E.R	3 x 220-240 D	DOL	Bimetallic thermal switch	Semi-open	96922744
DWK.O.13.150.110.5.1D	3 x 380-415 Y	Y/D	Bimetallic thermal switch	Semi-open	96926056
DWK.O.13.150.110.5.1E	3 x 220-240 D	Y/D	Bimetallic thermal switch	Semi-open	96926057
DWK.O.13.150.110.5.1D.R	3 x 380-415 Y	Y/D	Bimetallic thermal switch	Semi-open	96926088
DWK.O.13.150.110.5.1E.R	3 x 220-240 D	Y/D	Bimetallic thermal switch	Semi-open	96926089
DWK.O.13.150.150.5.0D	3 x 380-415 Y	DOL	Bimetallic thermal switch	Semi-open	96922666
DWK.O.13.150.150.5.0D.R	3 x 380-415 Y	DOL	Bimetallic thermal switch	Semi-open	96922746
DWK.O.13.150.150.5.0E	3 x 220-240 D	DOL	Bimetallic thermal switch	Semi-open	96925964
DWK.O.13.150.150.5.0E.R	3 x 220-240 D	DOL	Bimetallic thermal switch	Semi-open	96925990
DWK.O.13.150.150.5.1D	3 x 380-415 Y	Y/D	Bimetallic thermal switch	Semi-open	96926060
DWK.O.13.150.150.5.1E	3 x 220-240 D	Y/D	Bimetallic thermal switch	Semi-open	96926061
DWK.O.13.150.150.5.1D.R	3 x 380-415 Y	Y/D	Bimetallic thermal switch	Semi-open	96926092
DWK.O.13.150.150.5.1E.R	3 x 220-240 D	Y/D	Bimetallic thermal switch	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 Y	Y/D	Bimetallic thermal switch	Enclosed	96922667
DWK.E.10.100.220.5.1D.R	3 x 380-415 Y	Y/D	Bimetallic thermal switch	Enclosed	96922747
DWK.E.10.100.220.5.1E	3 x 220-240 D	Y/D	Bimetallic thermal switch	Enclosed	96925967
DWK.E.10.100.220.5.1E.R	3 x 220-240 D	Y/D	Bimetallic thermal switch	Enclosed	96925991
DWK.E.10.150.220.5.1D	3 x 380-415 Y	Y/D	Bimetallic thermal switch	Enclosed	96922668
DWK.E.10.150.220.5.1D.R	3 x 380-415 Y	Y/D	Bimetallic thermal switch	Enclosed	96922748
DWK.E.10.150.220.5.1E	3 x 220-240 D	Y/D	Bimetallic thermal switch	Enclosed	96925968
DWK.E.10.150.220.5.1E.R	3 x 220-240 D	Y/D	Bimetallic thermal switch	Enclosed	96925992
DWK.E.10.150.300.5.1D	3 x 380-415 Y	Y/D	Bimetallic thermal switch	Enclosed	96922669
DWK.E.10.150.300.5.1D.R	3 x 380-415 Y	Y/D	Bimetallic thermal switch	Enclosed	96922749
DWK.E.10.150.300.5.1E	3 x 220-240 D	Y/D	Bimetallic thermal switch	Enclosed	96925969
DWK.E.10.150.300.5.1E.R	3 x 220-240 D	Y/D	Bimetallic thermal switch	Enclosed	96925993
DWK.E.10.150.370.5.1D	3 x 380-415 Y	Y/D	Bimetallic thermal switch	Enclosed	96922671
DWK.E.10.150.370.5.1D.R	3 x 380-415 Y	Y/D	Bimetallic thermal switch	Enclosed	96922751
DWK.E.10.150.370.5.1E	3 x 220-240 D	Y/D	Bimetallic thermal switch	Enclosed	96925971
DWK.E.10.150.370.5.1E.R	3 x 220-240 D	Y/D	Bimetallic thermal switch	Enclosed	96925995
DWK.E.10.150.450.5.1D	3 x 380-415 Y	Y/D	Bimetallic thermal switch	Enclosed	96922673
DWK.E.10.150.450.5.1D.R	3 x 380-415 Y	Y/D	Bimetallic thermal switch	Enclosed	96922753
DWK.E.10.150.450.5.1E	3 x 220-240 D	Y/D	Bimetallic thermal switch	Enclosed	96925973
DWK.E.10.150.450.5.1E.R	3 x 220-240 D	Y/D	Bimetallic thermal switch	Enclosed	96925997
DWK.E.10.150.550.5.1D	3 x 380-415 Y	Y/D	Bimetallic thermal switch	Enclosed	96922675
DWK.E.10.150.550.5.1D.R	3 x 380-415 Y	Y/D	Bimetallic thermal switch	Enclosed	96922755
DWK.E.10.150.550.5.1E	3 x 220-240 D	Y/D	Bimetallic thermal switch	Enclosed	96925975
DWK.E.10.150.550.5.1E.R	3 x 220-240 D	Y/D	Bimetallic thermal switch	Enclosed	96925999
DWK.E.10.200.300.5.1D	3 x 380-415 Y	Y/D	Bimetallic thermal switch	Enclosed	96922670
DWK.E.10.200.300.5.1D.R	3 x 380-415 Y	Y/D	Bimetallic thermal switch	Enclosed	96922750
DWK.E.10.200.300.5.1E	3 x 220-240 D	Y/D	Bimetallic thermal switch	Enclosed	96925970
DWK.E.10.200.300.5.1E.R	3 x 220-240 D	Y/D	Bimetallic thermal switch	Enclosed	96925994
DWK.E.10.200.370.5.1D	3 x 380-415 Y	Y/D	Bimetallic thermal switch	Enclosed	96922672
DWK.E.10.200.370.5.1D.R	3 x 380-415 Y	Y/D	Bimetallic thermal switch	Enclosed	96922752
DWK.E.10.200.370.5.1E	3 x 220-240 D	Y/D	Bimetallic thermal switch	Enclosed	96925972
DWK.E.10.200.370.5.1E.R	3 x 220-240 D	Y/D	Bimetallic thermal switch	Enclosed	96925996
DWK.E.10.200.450.5.1D	3 x 380-415 Y	Y/D	Bimetallic thermal switch	Enclosed	96922674
DWK.E.10.200.450.5.1D.R	3 x 380-415 Y	Y/D	Bimetallic thermal switch	Enclosed	96922754
DWK.E.10.200.450.5.1E	3 x 220-240 D	Y/D	Bimetallic thermal switch	Enclosed	96925974
DWK.E.10.200.450.5.1E.R	3 x 220-240 D	Y/D	Bimetallic thermal switch	Enclosed	96925998
DWK.E.10.200.550.5.1D	3 x 380-415 Y	Y/D	Bimetallic thermal switch	Enclosed	96922676
DWK.E.10.200.550.5.1D.R	3 x 380-415 Y	Y/D	Bimetallic thermal switch	Enclosed	96922756
DWK.E.10.200.550.5.1E	3 x 220-240 D	Y/D	Bimetallic thermal switch	Enclosed	96925976
DWK.E.10.200.550.5.1E.R	3 x 220-240 D	Y/D	Bimetallic thermal switch	Enclosed	96926000
DWK.E.10.200.750.5.1D	3 x 380-415 Y	Y/D	Bimetallic thermal switch	Enclosed	96922677
DWK.E.10.200.750.5.1D.R	3 x 380-415 Y	Y/D	Bimetallic thermal switch	Enclosed	96922757
DWK.E.10.200.750.5.1E	3 x 220-240 D	Y/D	Bimetallic thermal switch	Enclosed	96925977
DWK.E.10.200.750.5.1E.R	3 x 220-240 D	Y/D	Bimetallic thermal switch	Enclosed	96926001
DWK.E.10.200.900.5.1D	3 x 380-415 Y	Y/D	Bimetallic thermal switch	Enclosed	96922678
DWK.E.10.200.900.5.1D.R	3 x 380-415 Y	Y/D	Bimetallic thermal switch	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 Y	DOL	Bimetallic thermal switch	Semi-open	96884078
DPK.10.50.075.5.0E	3 x 220-240 D	DOL	Bimetallic thermal switch	Semi-open	96884079
DPK.10.50.15.5.0D	3 x 380-415 Y	DOL	Bimetallic thermal switch	Semi-open	96884080
DPK.10.50.15.5.0E	3 x 220-240 D	DOL	Bimetallic thermal switch	Semi-open	96884081
DPK.10.80.22.5.0D	3 x 380-415 Y	DOL	Bimetallic thermal switch	Semi-open	96884112
DPK.10.80.22.5.0E	3 x 220-240 D	DOL	Bimetallic thermal switch	Semi-open	96884113
DPK.15.80.37.5.0D	3 x 380-415 Y	DOL	Bimetallic thermal switch	Semi-open	96884114
DPK.15.80.37.5.0E	3 x 220-240 D	DOL	Bimetallic thermal switch	Semi-open	96884115
DPK.15.80.55.5.0D	3 x 380-415 Y	DOL	Bimetallic thermal switch	Semi-open	96884086
DPK.15.80.55.5.0E	3 x 220-240 D	DOL	Bimetallic thermal switch	Semi-open	96884087
DPK.15.80.55.5.1D	3 x 380-415 Y	Y/D	Bimetallic thermal switch	Semi-open	96926030
DPK.15.80.55.5.1E	3 x 220-240 D	Y/D	Bimetallic thermal switch	Semi-open	96926031
DPK.15.100.75.5.0D	3 x 380-415 Y	DOL	Bimetallic thermal switch	Semi-open	96884088
DPK.15.100.75.5.0E	3 x 220-240 D	DOL	Bimetallic thermal switch	Semi-open	96884089
DPK.15.100.75.5.1D	3 x 380-415 Y	Y/D	Bimetallic thermal switch	Semi-open	96926032
DPK.15.100.75.5.1E	3 x 220-240 D	Y/D	Bimetallic thermal switch	Semi-open	96926033
DPK.20.100.110.5.0D	3 x 380-415 Y	DOL	Bimetallic thermal switch	Semi-open	96884090
DPK.20.100.110.5.0E	3 x 220-240 D	DOL	Bimetallic thermal switch	Semi-open	96884091
DPK.20.100.110.5.1D	3 x 380-415 Y	Y/D	Bimetallic thermal switch	Semi-open	96926034
DPK.20.100.110.5.1E	3 x 220-240 D	Y/D	Bimetallic thermal switch	Semi-open	96926035
DPK.20.100.150.5.0D	3 x 380-415 Y	DOL	Bimetallic thermal switch	Semi-open	96884092
DPK.20.100.150.5.0E	3 x 220-240 D	DOL	Bimetallic thermal switch	Semi-open	96884116
DPK.20.100.150.5.1D	3 x 380-415 Y	Y/D	Bimetallic thermal switch	Semi-open	96926036
DPK.20.100.150.5.1E	3 x 220-240 D	Y/D	Bimetallic thermal switch	Semi-open	96926037
DPK.20.150.190.5.1D	3 x 380-415 Y	Y/D	Bimetallic thermal switch	Semi-open	96884093
DPK.20.150.190.5.1E	3 x 220-240 D	Y/D	Bimetallic thermal switch	Semi-open	96884117
DPK.20.150.220.5.1D	3 x 380-415 Y	Y/D	Bimetallic thermal switch	Semi-open	96884094
DPK.20.150.220.5.1E	3 x 220-240 D	Y/D	Bimetallic thermal switch	Semi-open	96884118

6. 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 x Pt100 in 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.

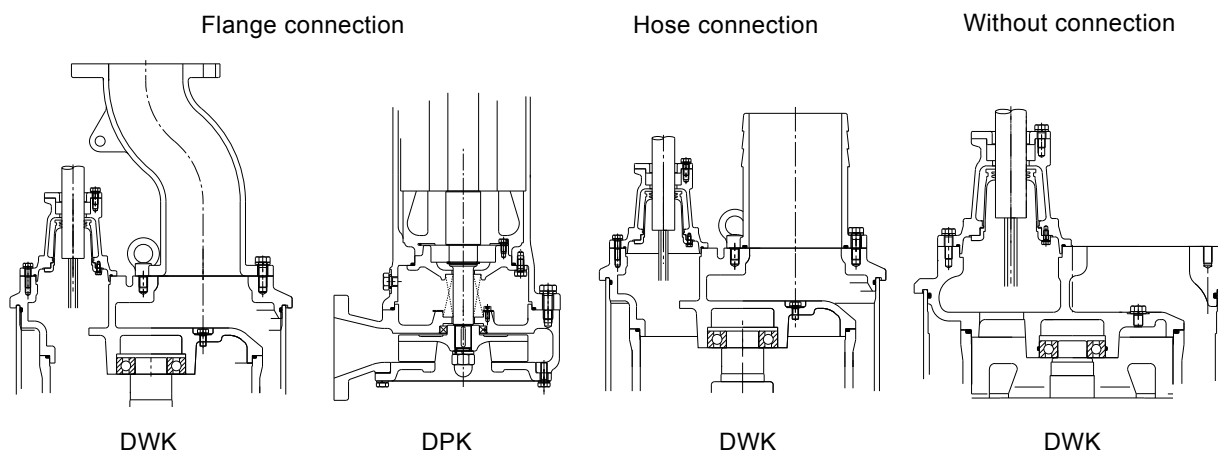
7. Construction

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.



TM04 4735 1909 - TM04 4736 1909 - TM04 4737 1909

Fig. 5 Discharge connections

Exploded views and sectional drawings

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

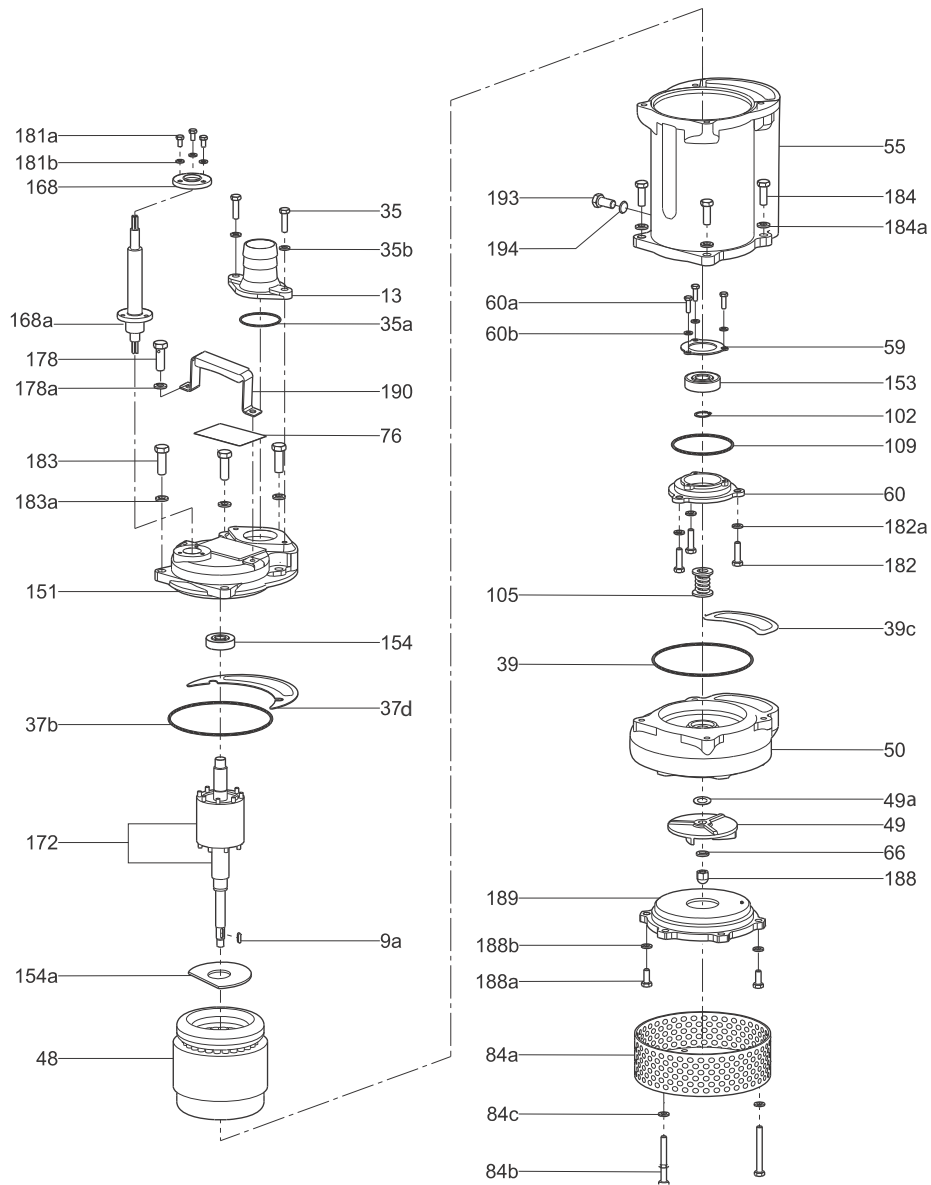


Fig. 6 DWK.O.6.50.075, DWK.O.6.50.15, DWK.O.6.50.22

TM04 4575 1809

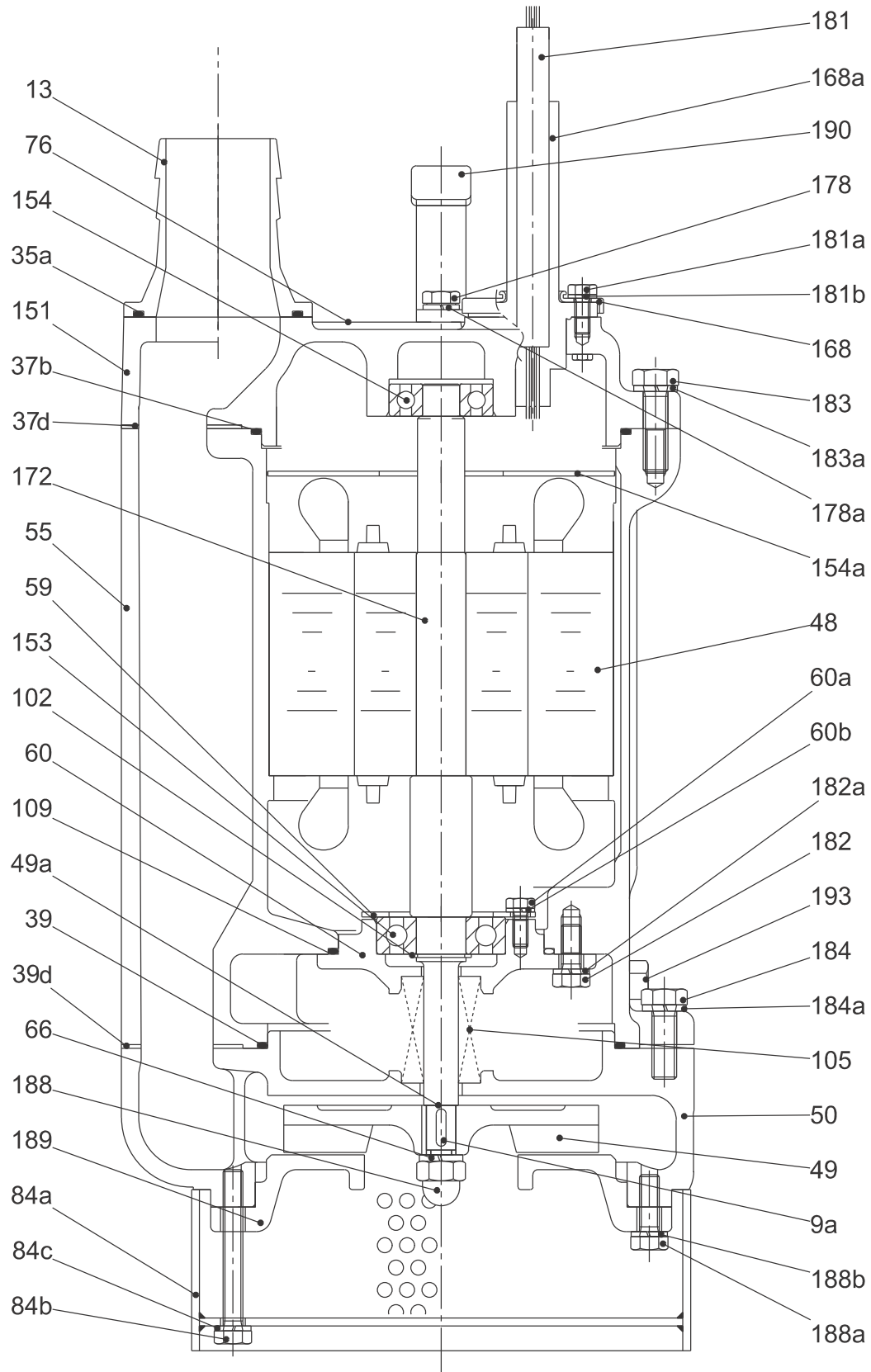


Fig. 7 DWK.O.6.50.075, DWK.O.6.50.15, DWK.O.6.50.22

TN04 4698 1909

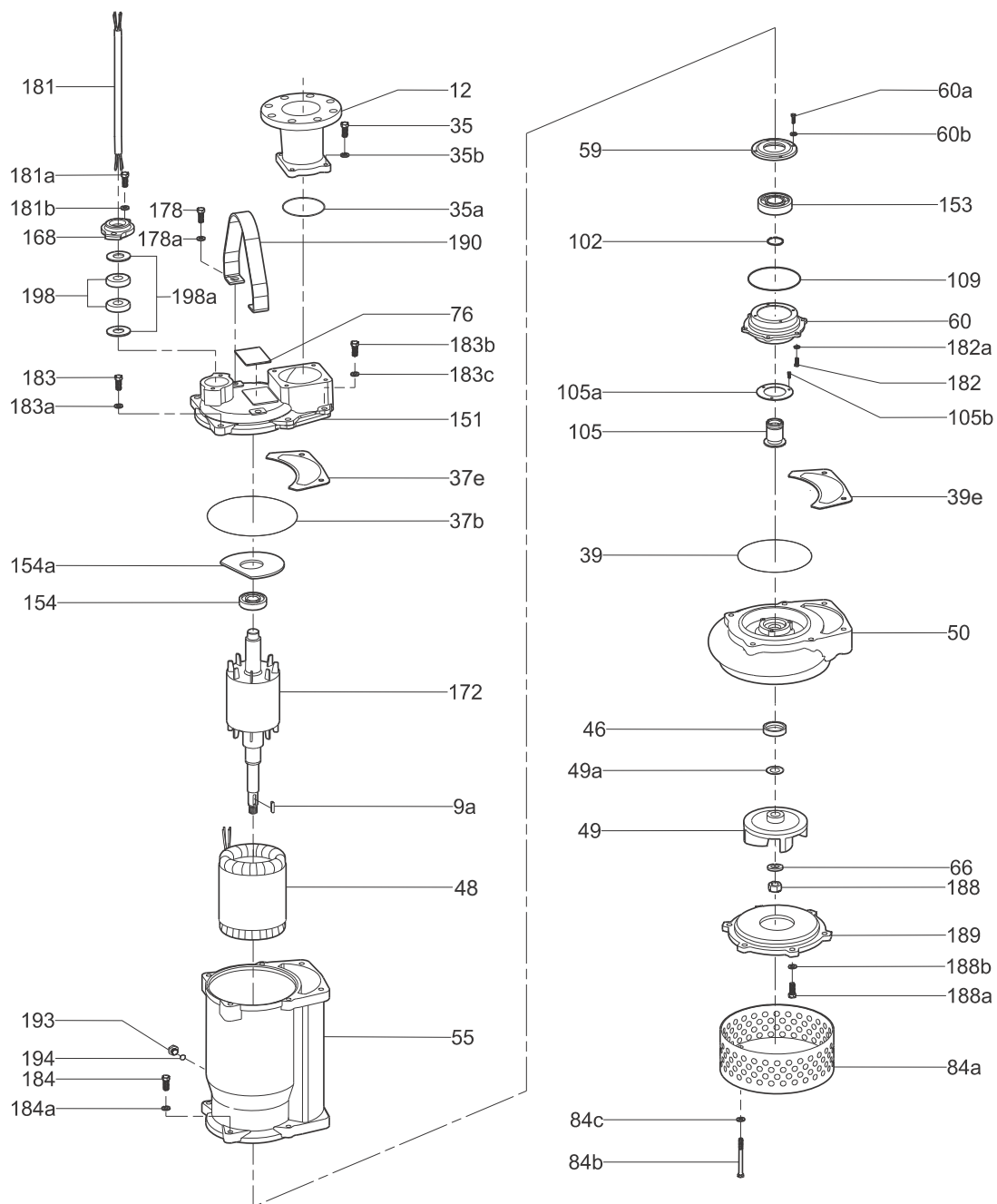


Fig. 8 DWK.O.6.80.15, DWK.O.6.80.22, DWK.O.10.80.37, DWK.O.10.100.37

TM04-4708 1909

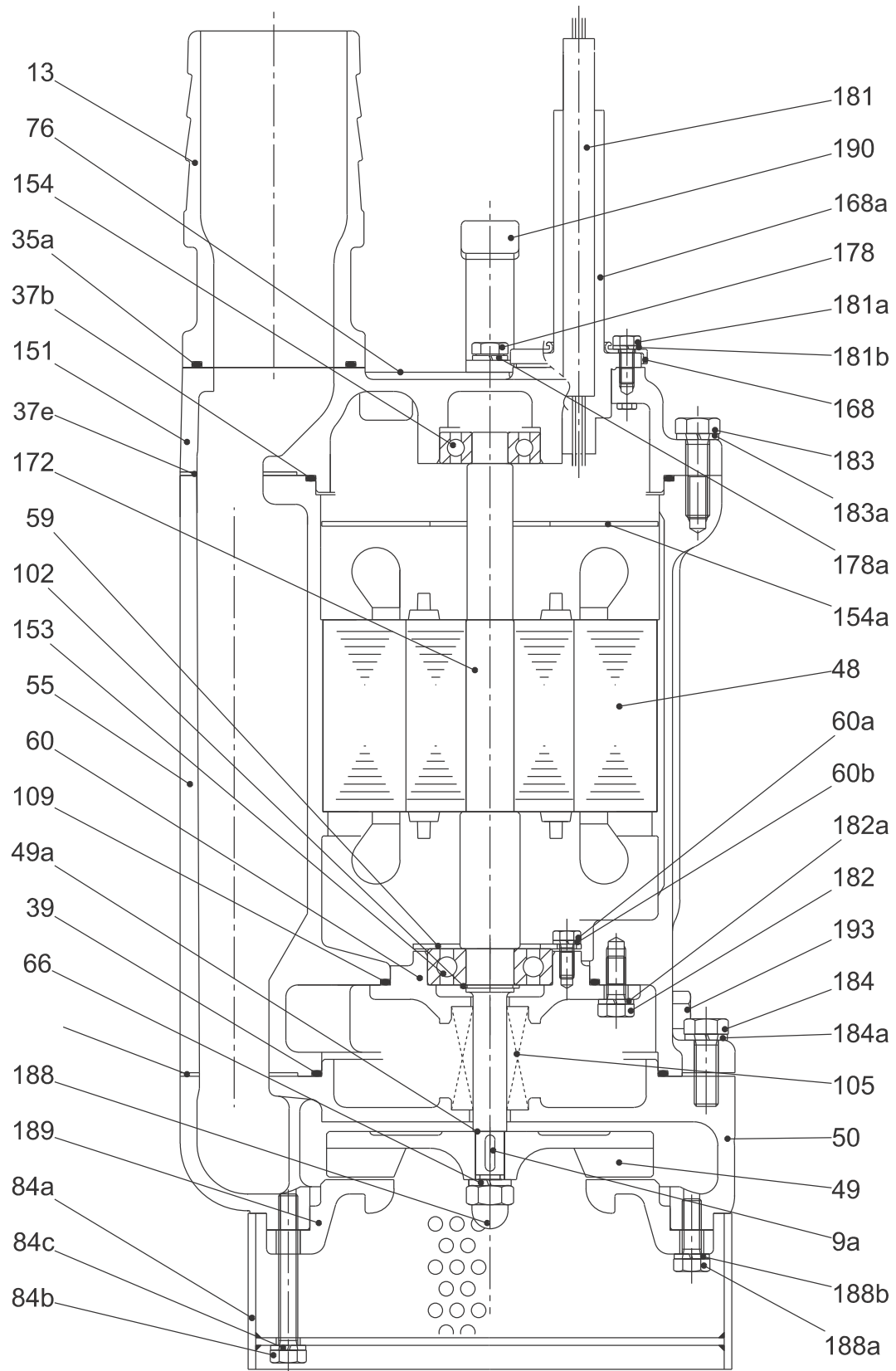


Fig. 9 DWK.O.6.80.15, DWK.O.6.80.22

TN04 4699 1809

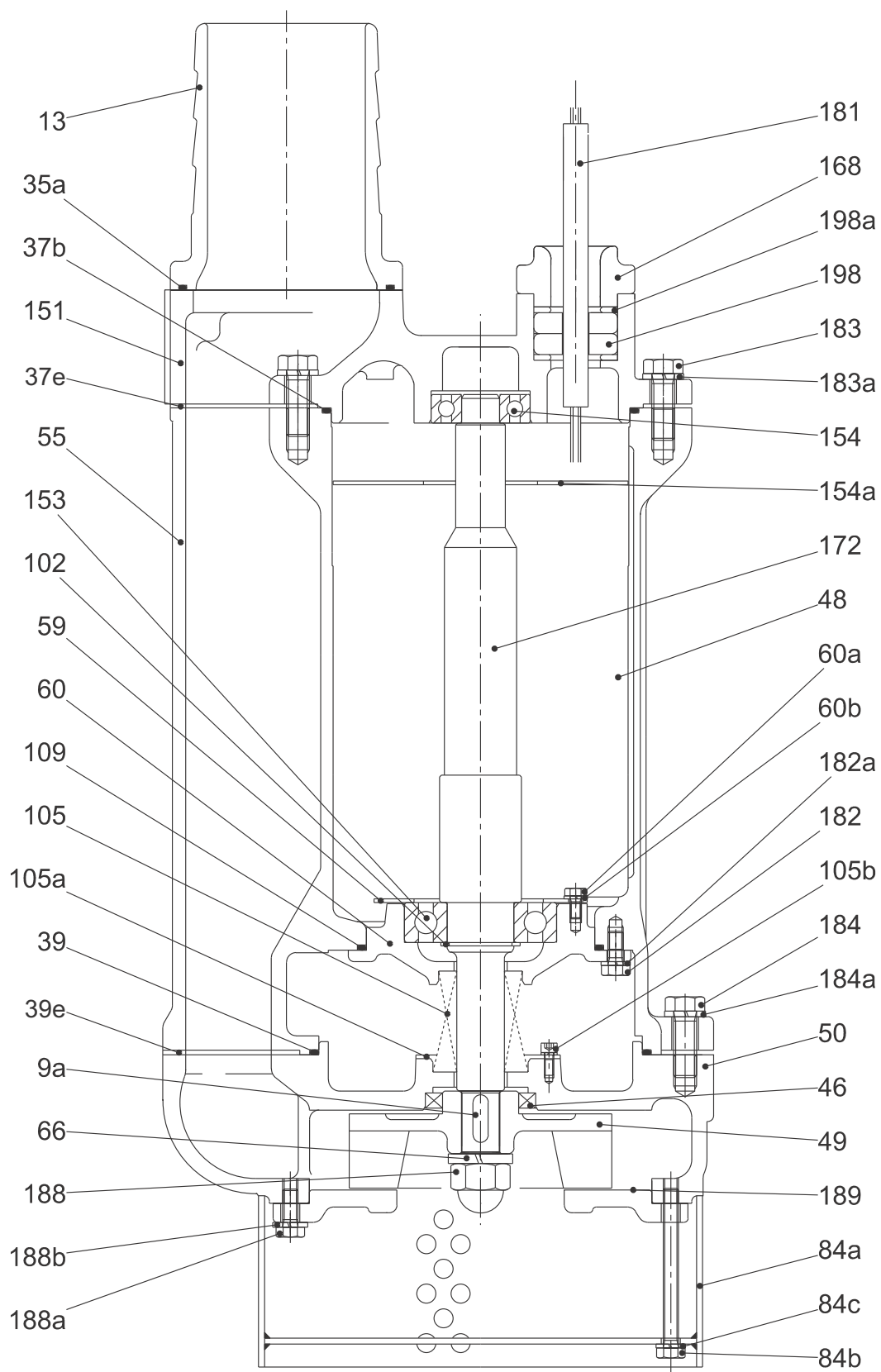
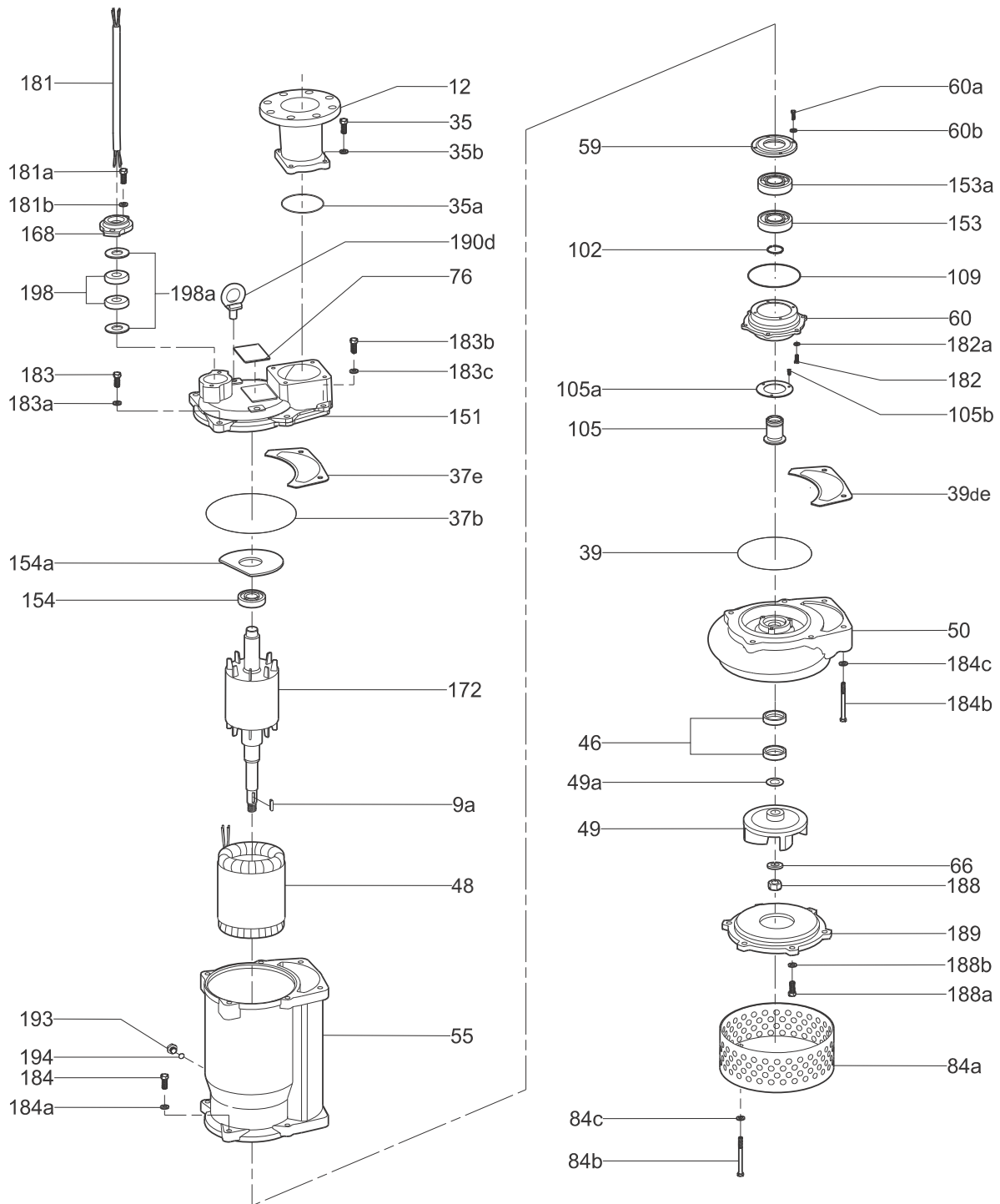


Fig. 10 DWK.O.10.80.37, DWK.O.10.100.37

TM04 4701 1909



TM04 4577 1809

Fig. 11 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, DWK.O.13.150.150

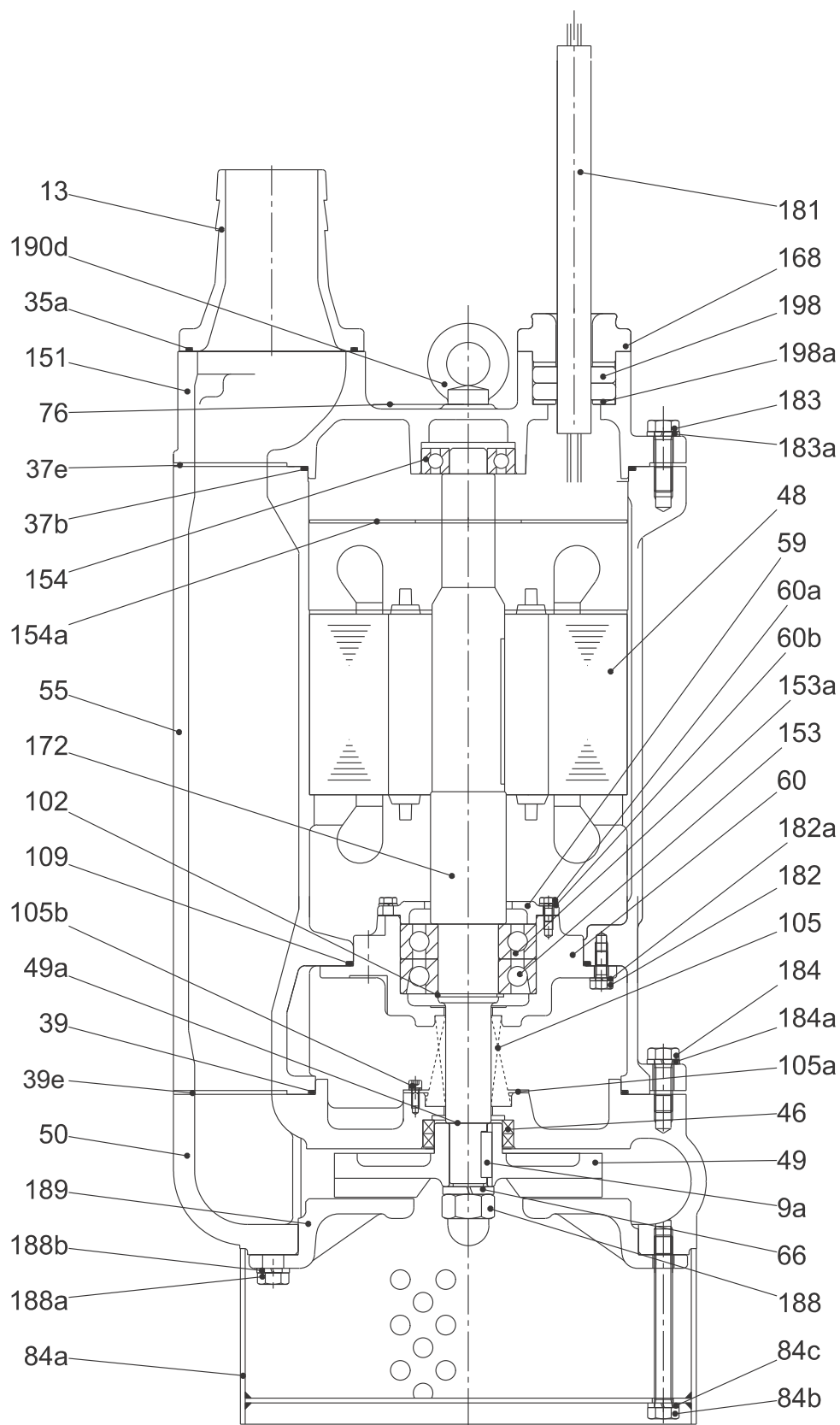


Fig. 12 DWK.O.13.80.55, DWK.O.13.100.55

TM04 4700 1909

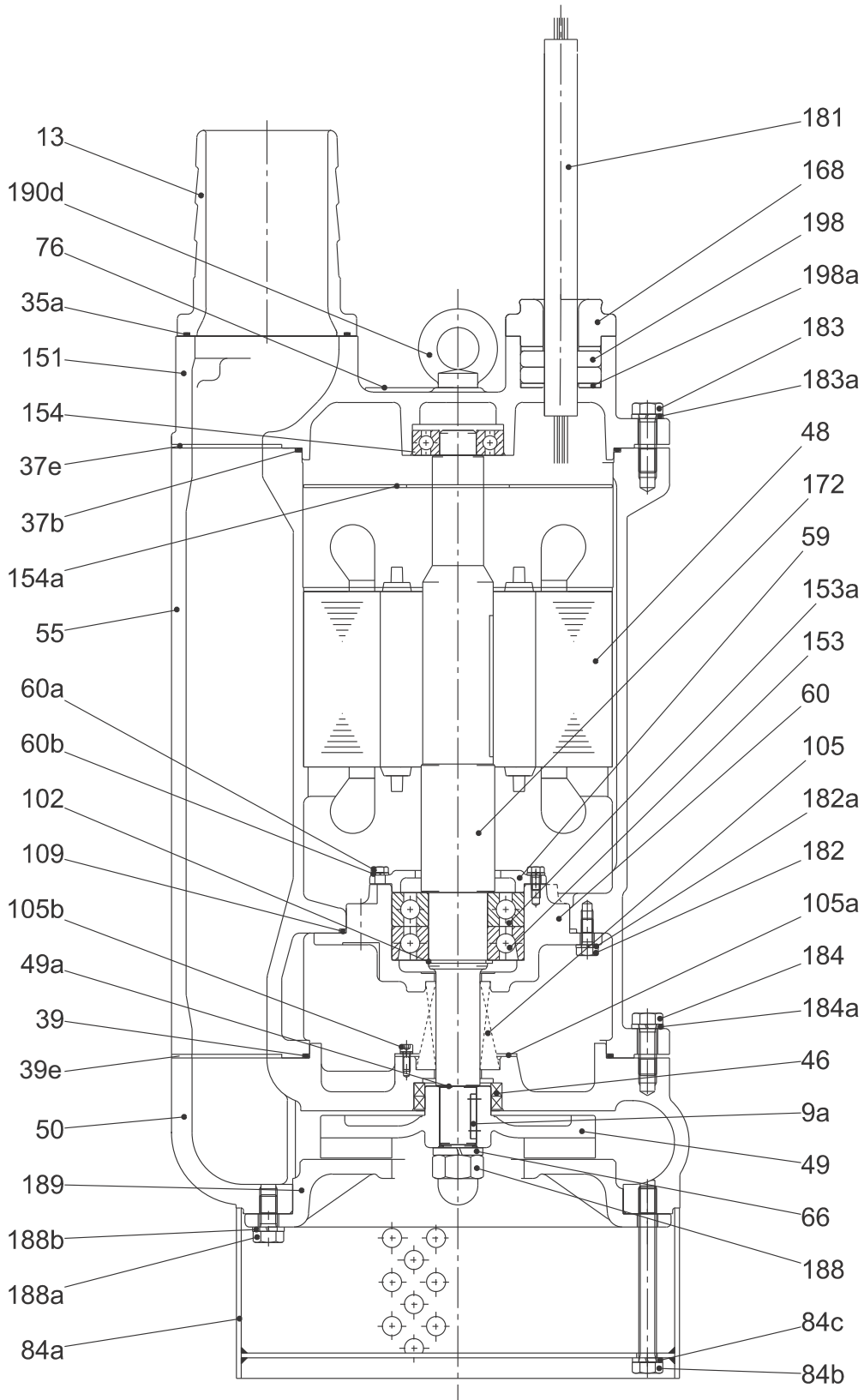


Fig. 13 DWK.O.13.100.75

TM04 4702 1909

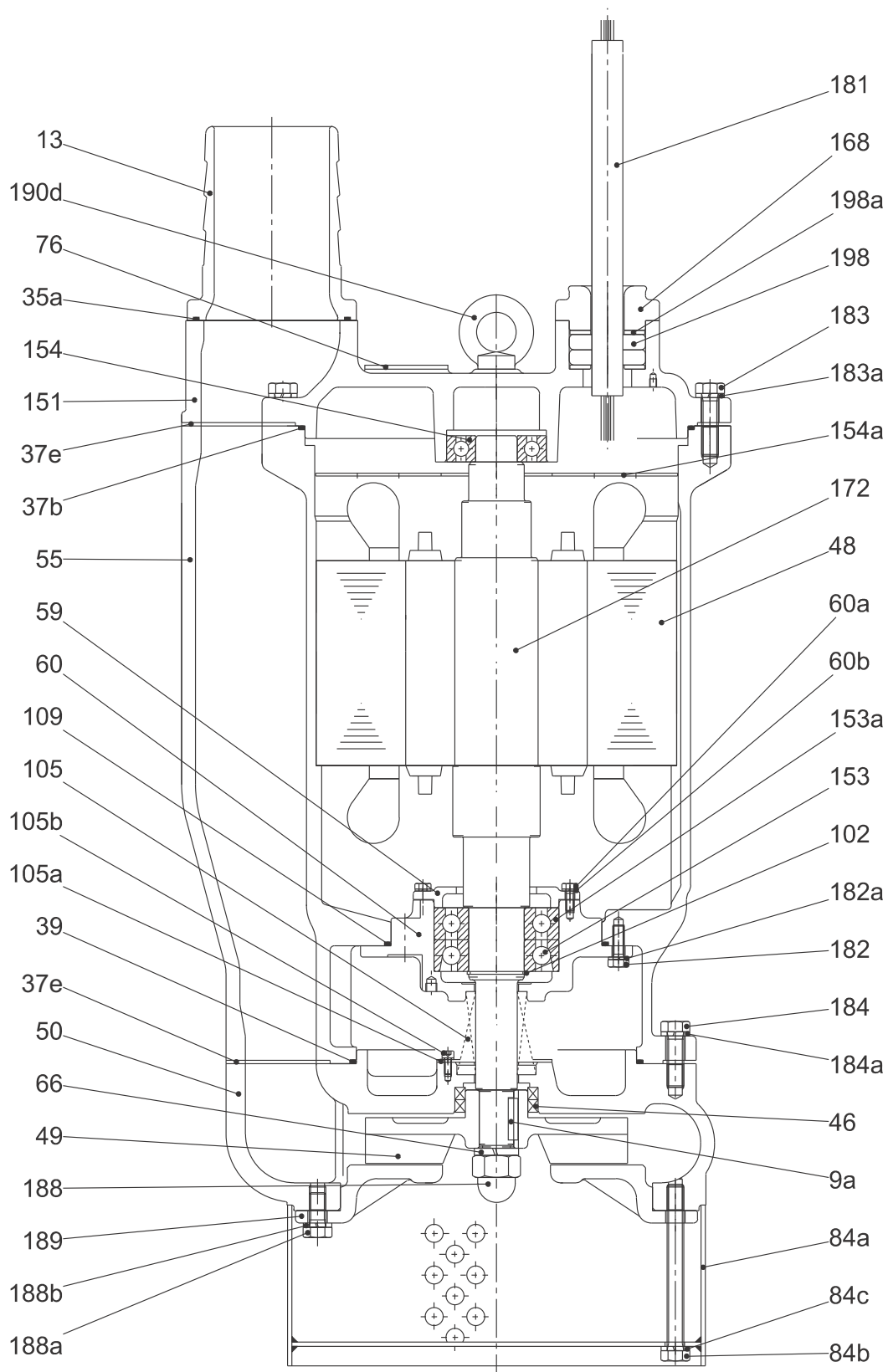


Fig. 14 DWK.O.13.100.110, DWK.O.13.100.150

TM04 4703 1909

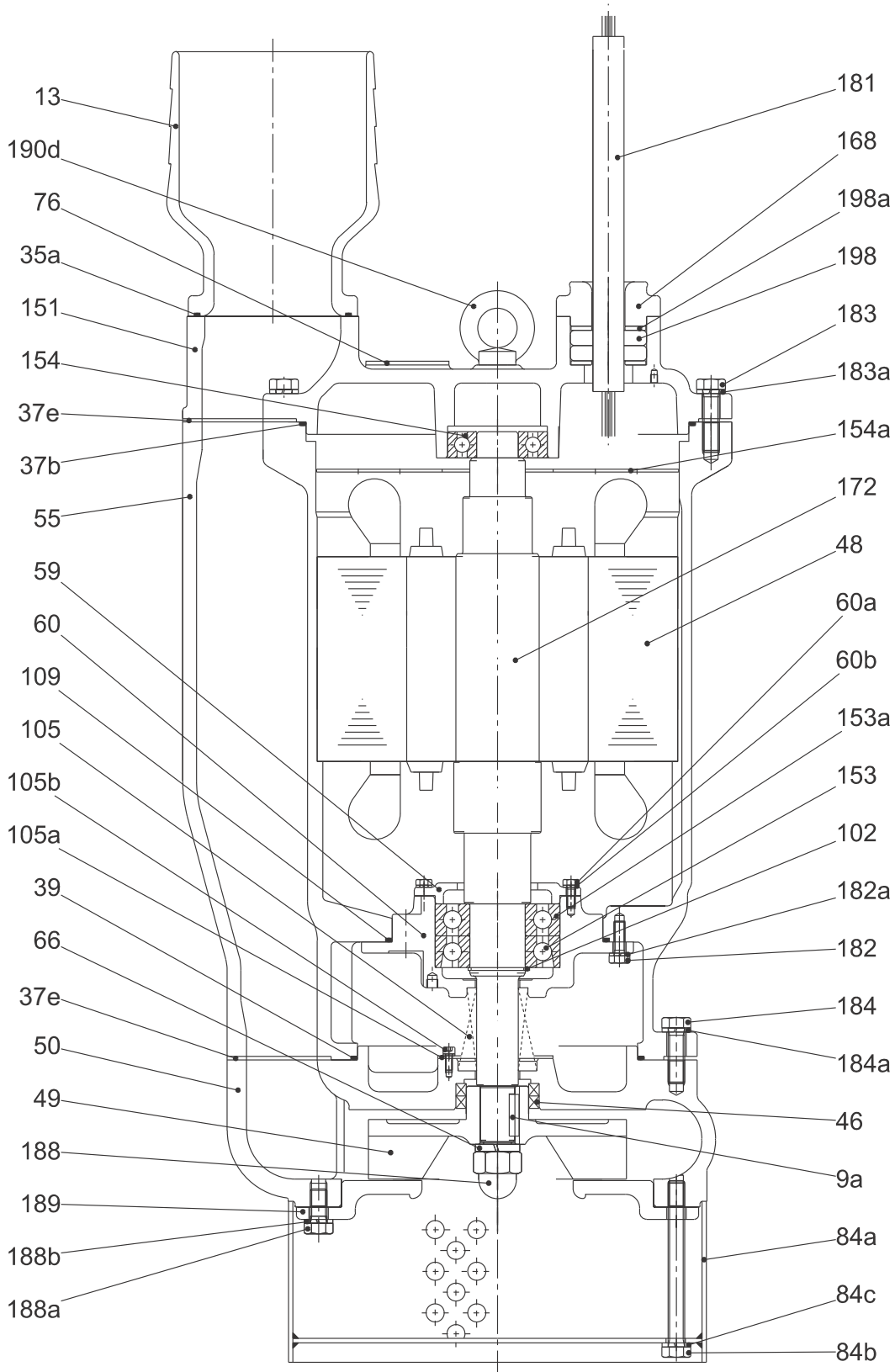


Fig. 15 DWK.O.13.100.150

TM04 4705 1909

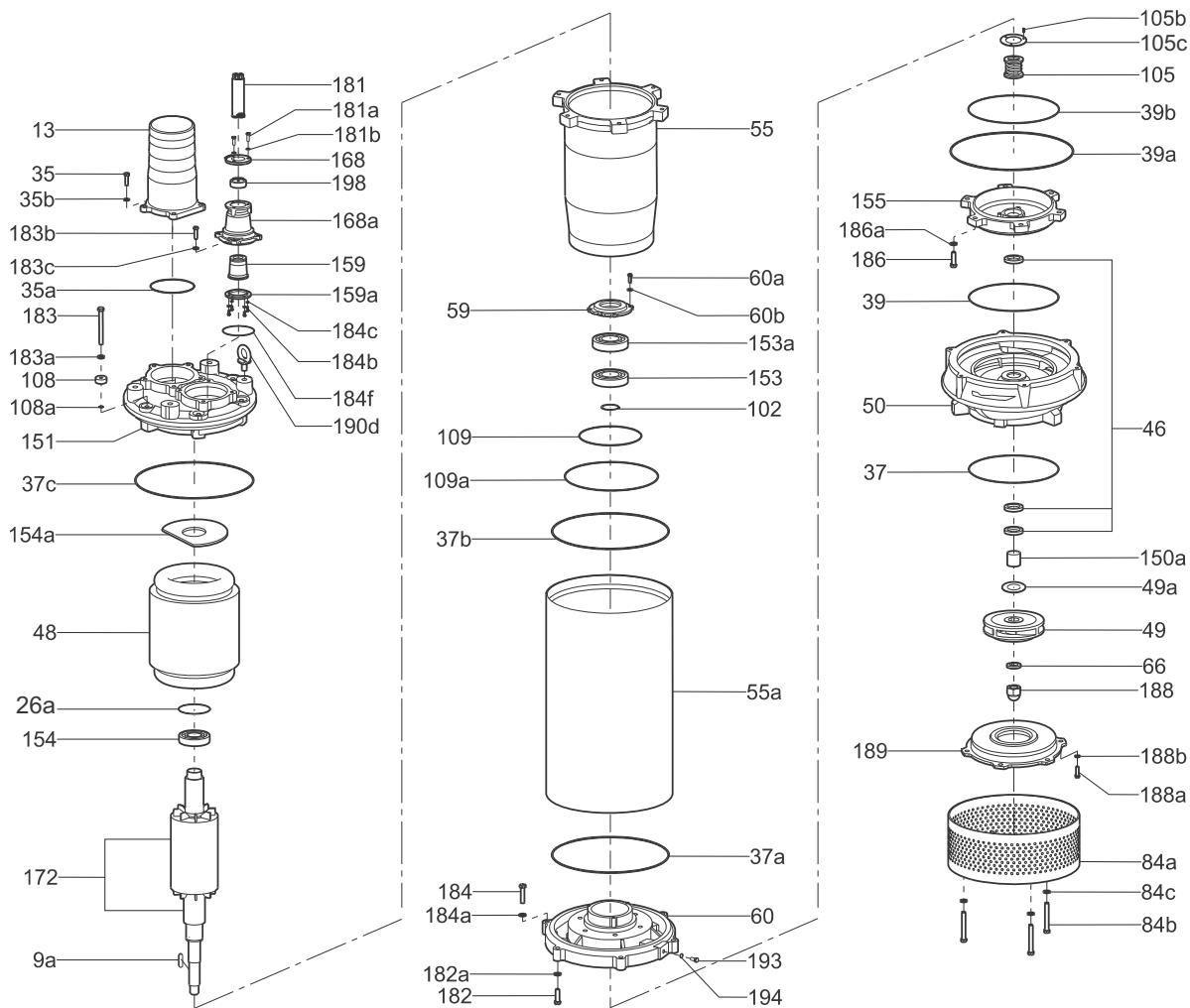
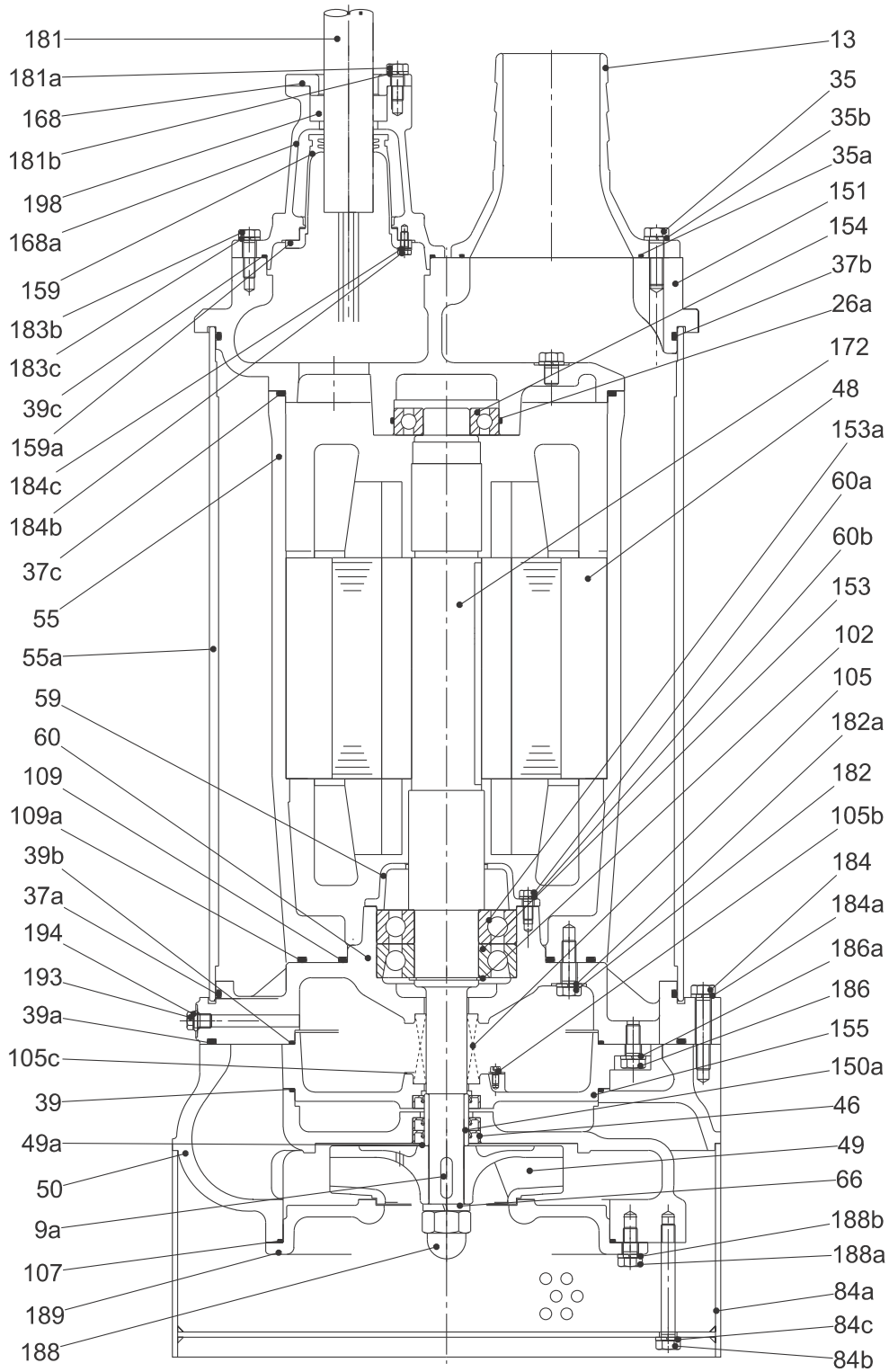


Fig. 16 DWK.E.10.100.220, DWK.E.10.150.220

TM04 4576 1809



TM04 4578 1809

Fig. 17 DWK.E.10.100.220

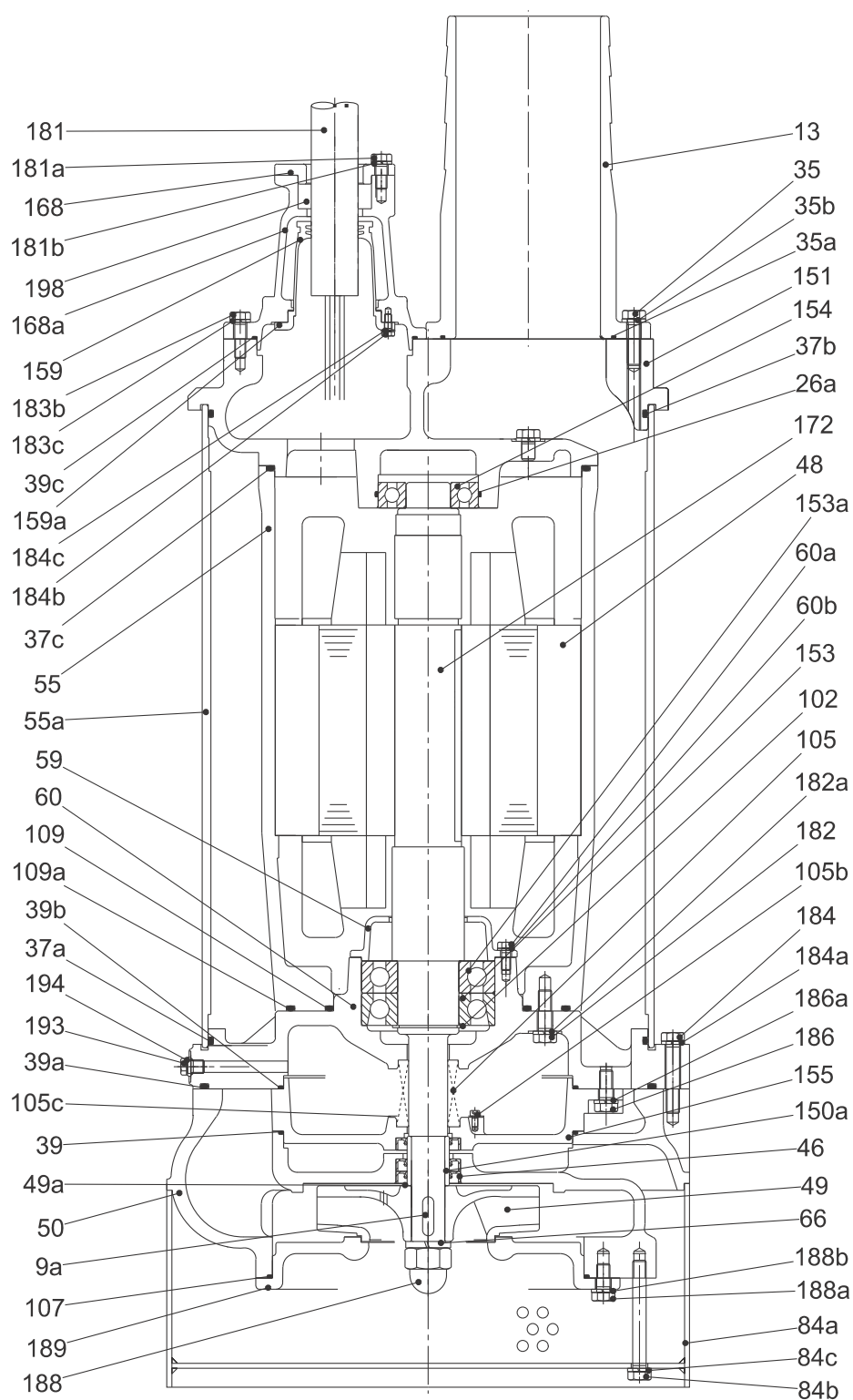
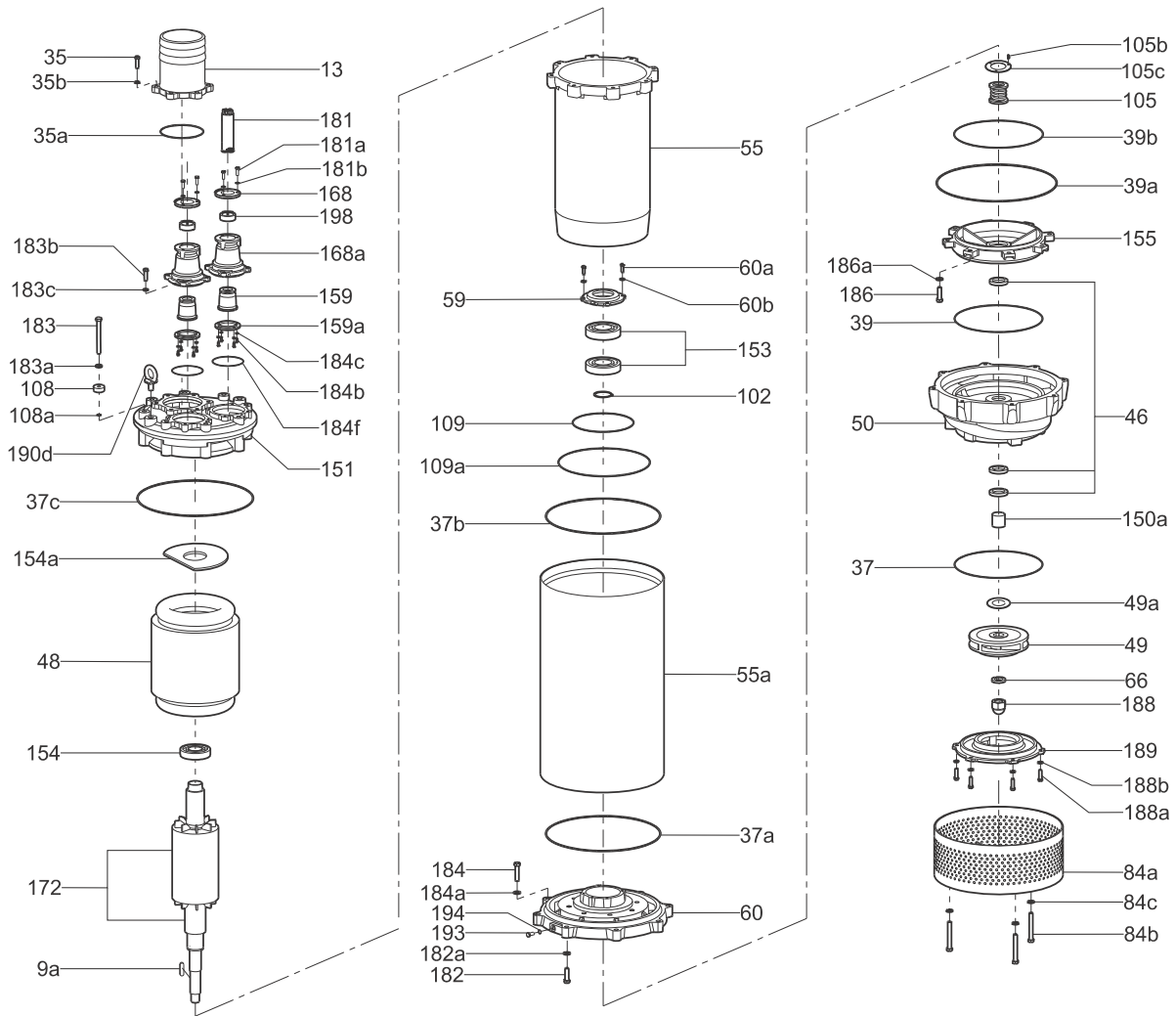


Fig. 18 DWK.E.10.150.220

TM04 4580 1809



TM04 4707 1909

Fig. 19 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, DWK.E.10.200.450

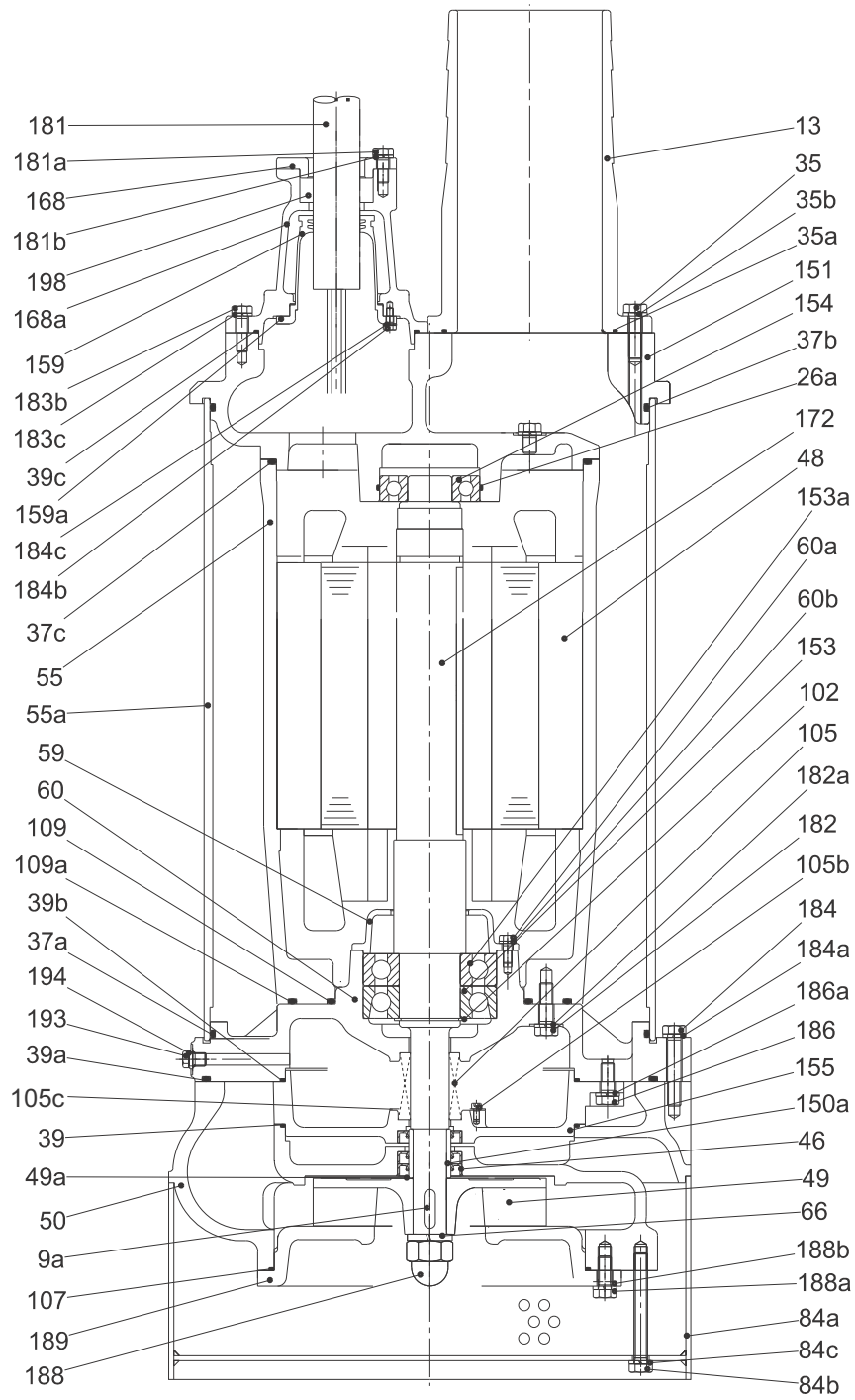


Fig. 20 DWK.E.10.150.300, DWK.E.10.200.300

TM04 4582 1809

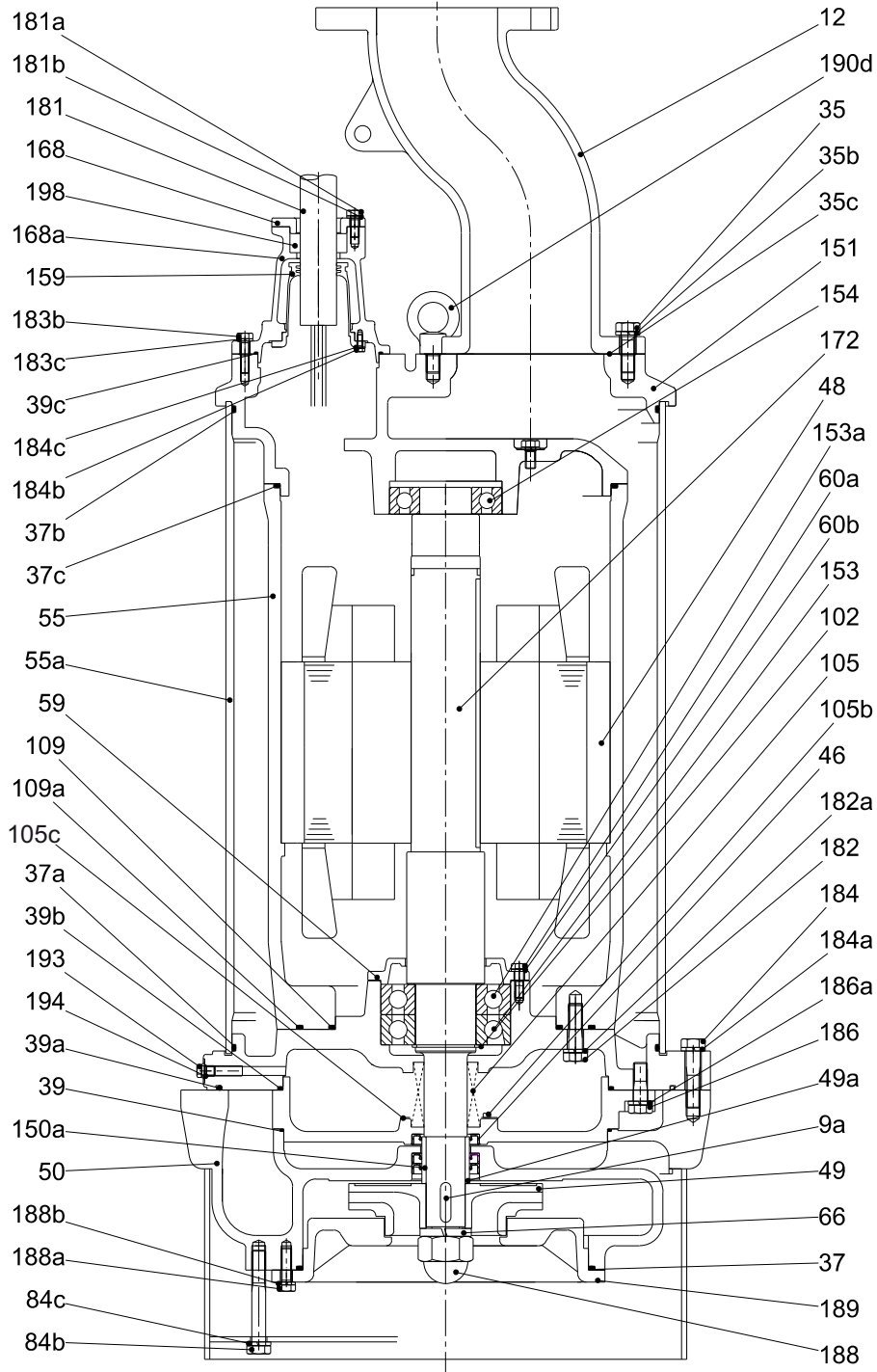


Fig. 21 DWK.E.10.150.370, DWK.E.10.150.450, DWK.E.10.200.370, DWK.E.10.200.450

TM04 4584 1809

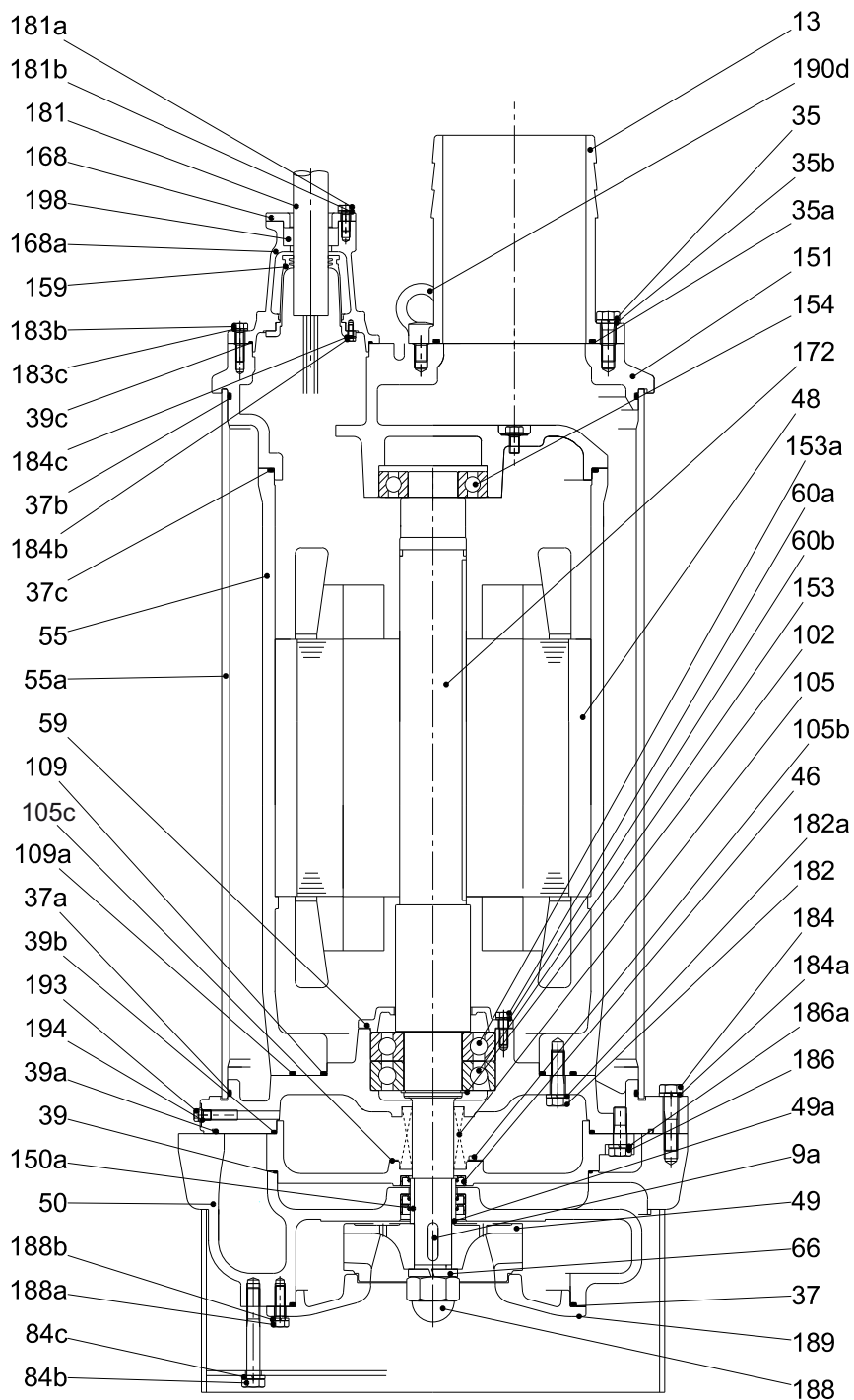


Fig. 22 DWK.E.10.150.550, DWK.E.10.200.550, DWK.E.10.200.750, DWK.E.10.200.900

TM04 4587 1809

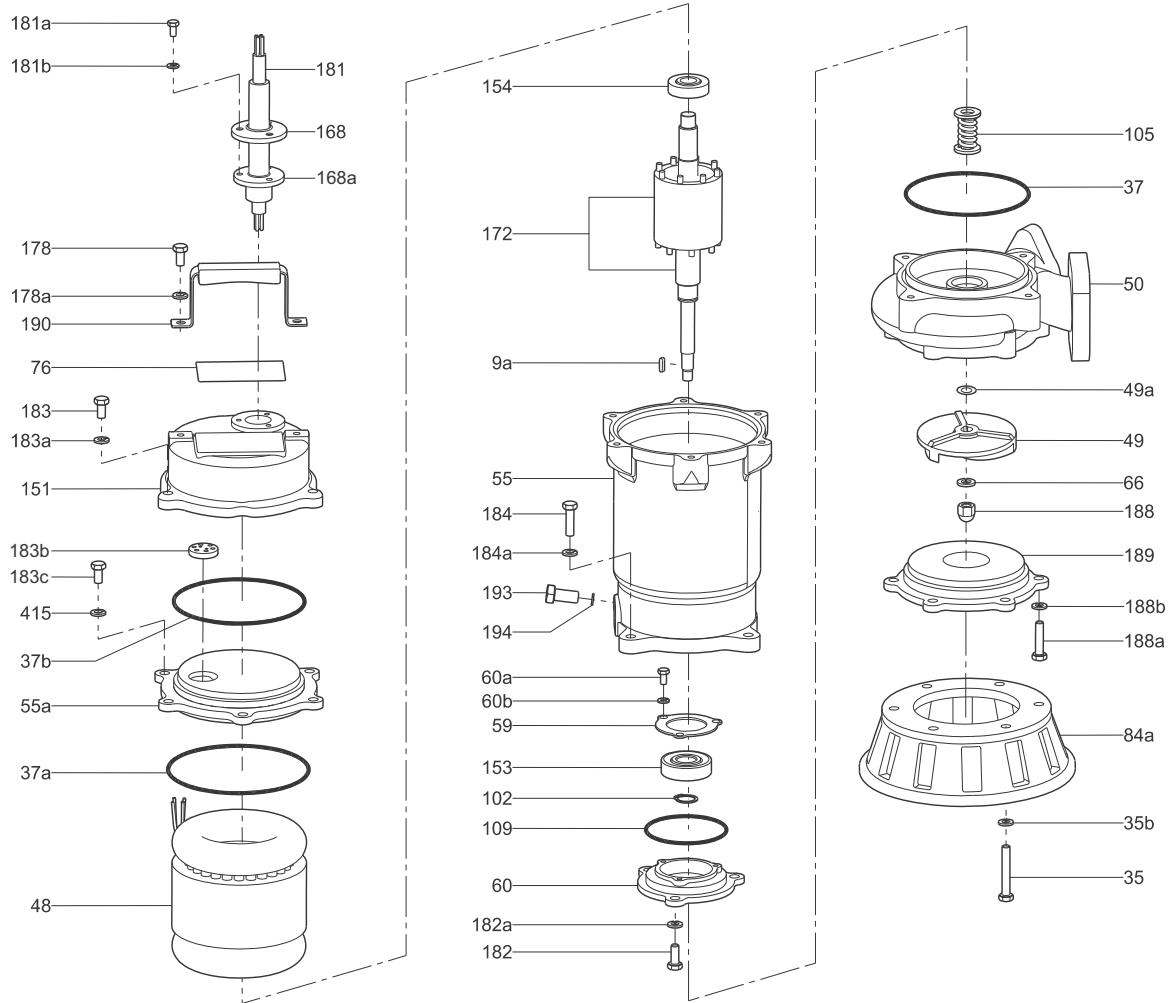


Fig. 23 DPK.10.50.075, DPK.10.50.15, DPK.10.80.22

TM04 4365 1809

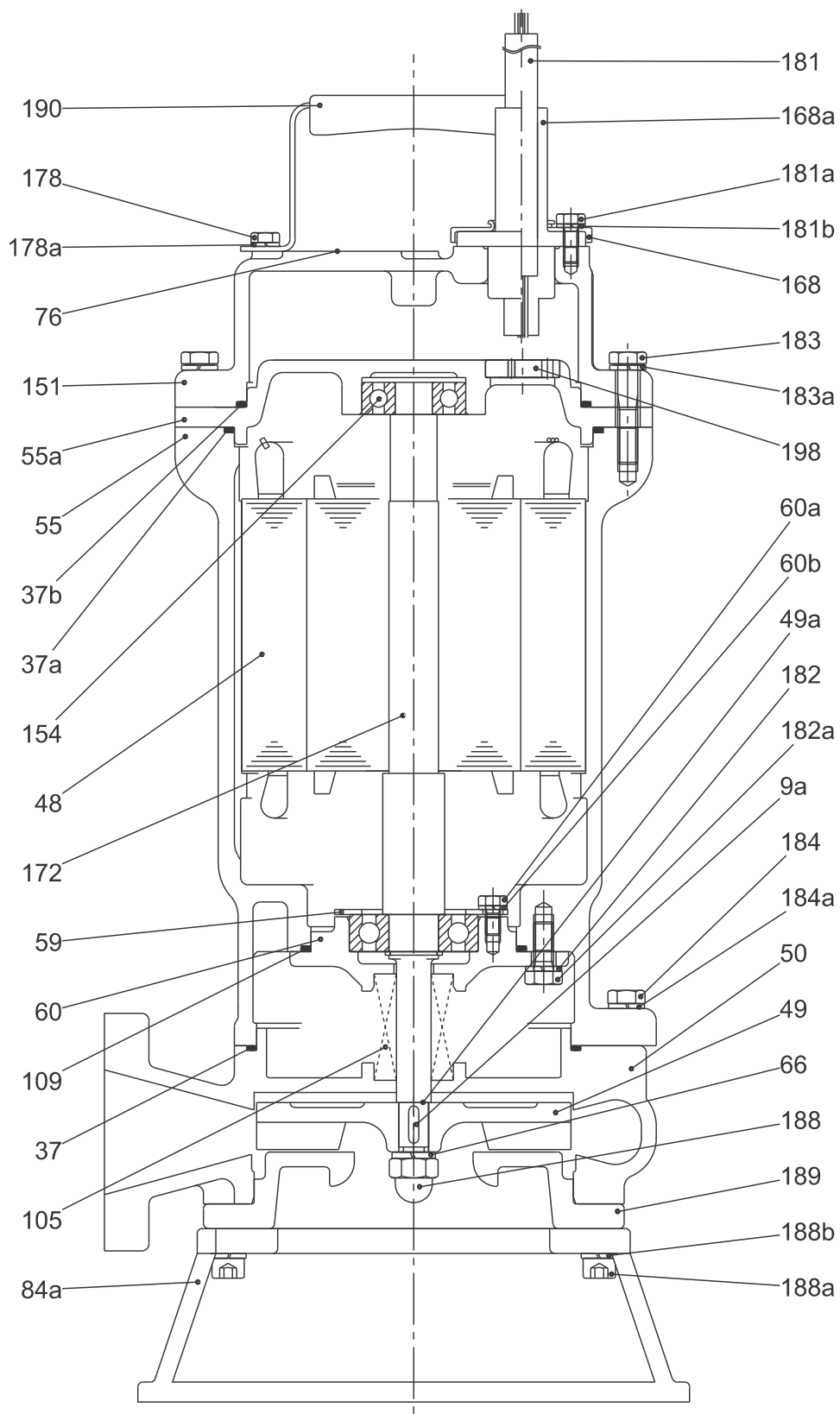
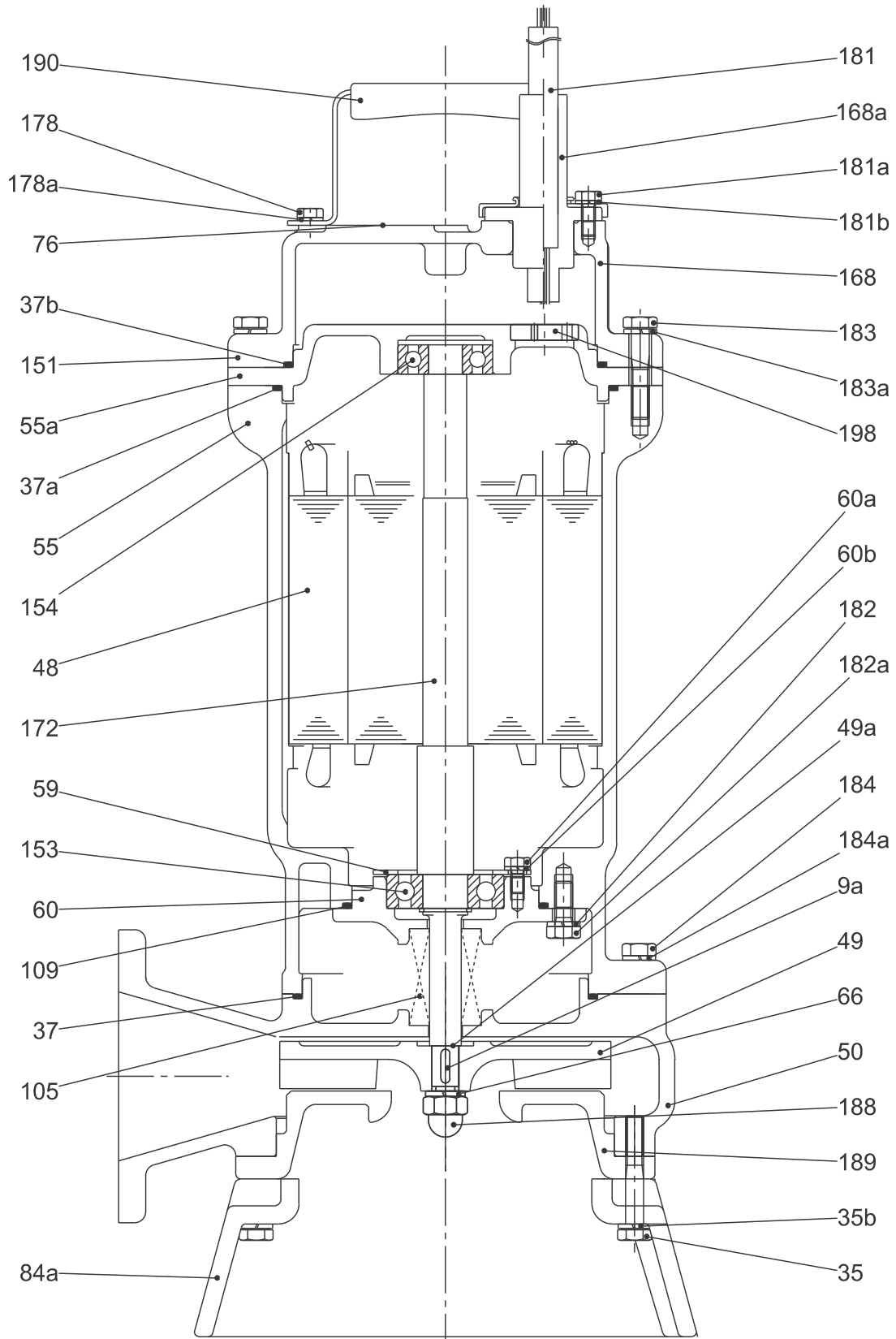


Fig. 24 DPK.10.50.075, DPK.10.50.15

TM04 4369 1809



TM04 4370 1809

Fig. 25 DPK.10.80.22

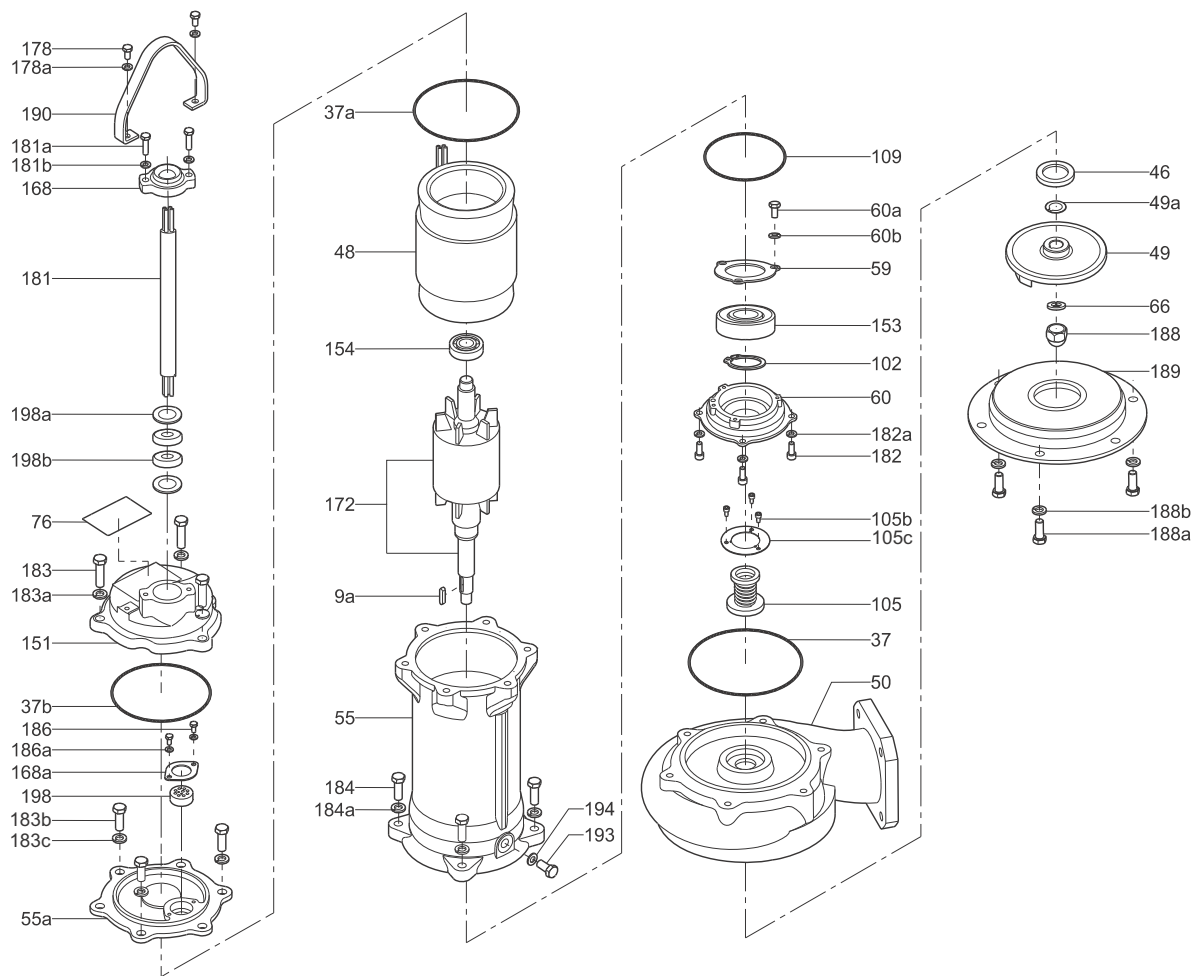
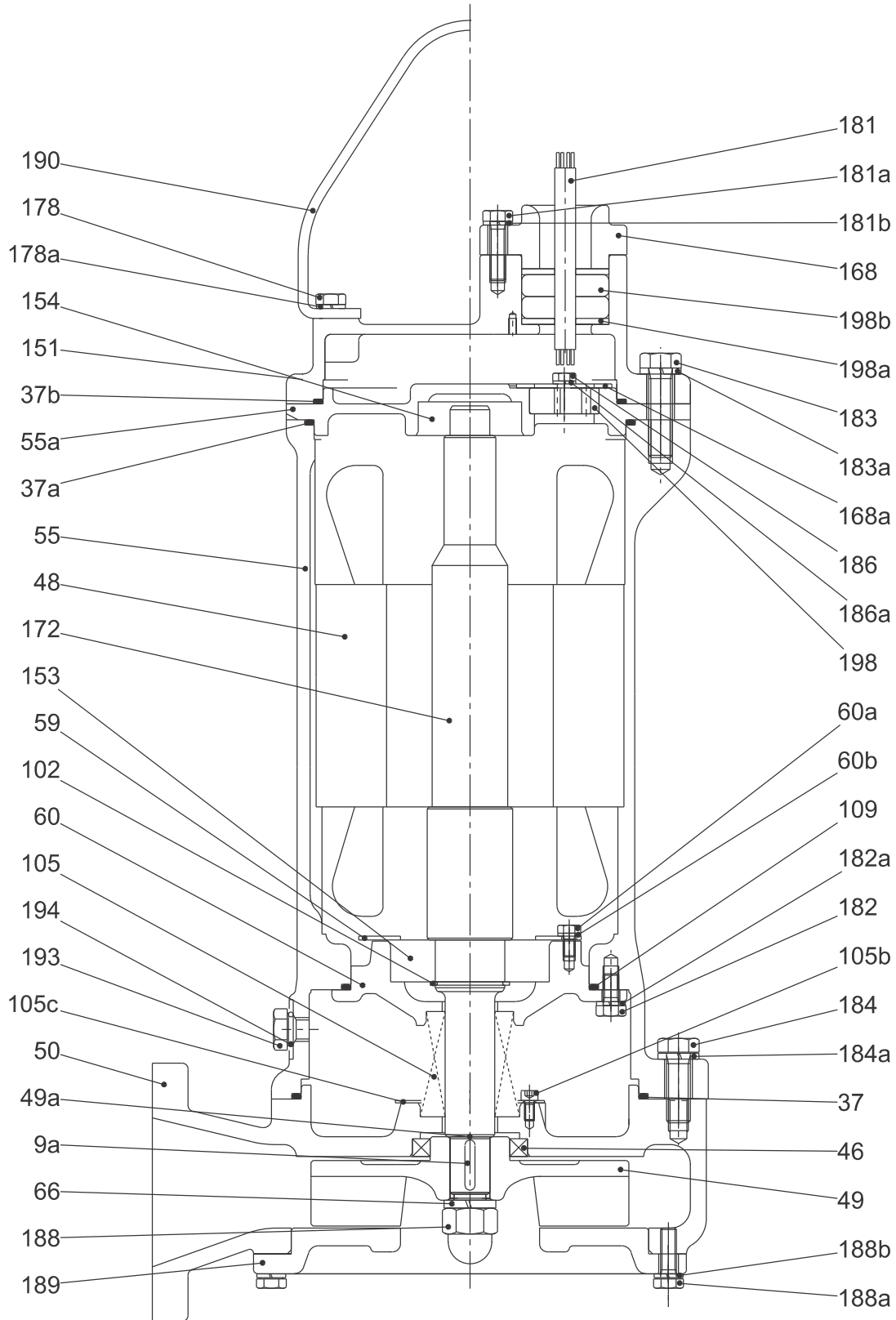


Fig. 26 DPK.15.80.37, DPK.15.80.55, DPK.15.100.75, DPK.20.100.110, DPK.20.100.150

TM04 4367 1809



TM04 4372 1809

Fig. 27 DPK.10.80.37

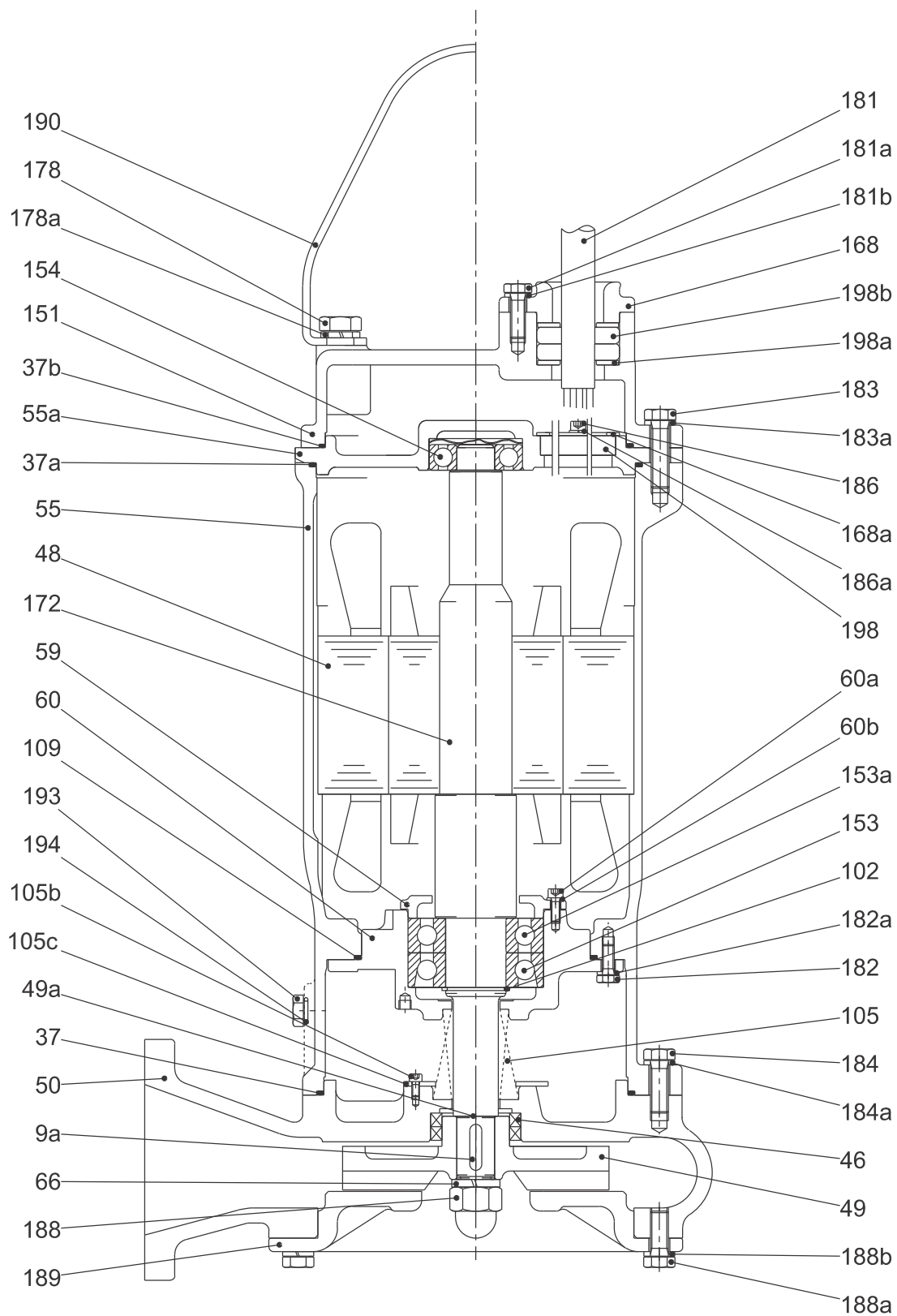


Fig. 28 DPK.15.80.55, DPK.15.100.75

TM04 4371 1809

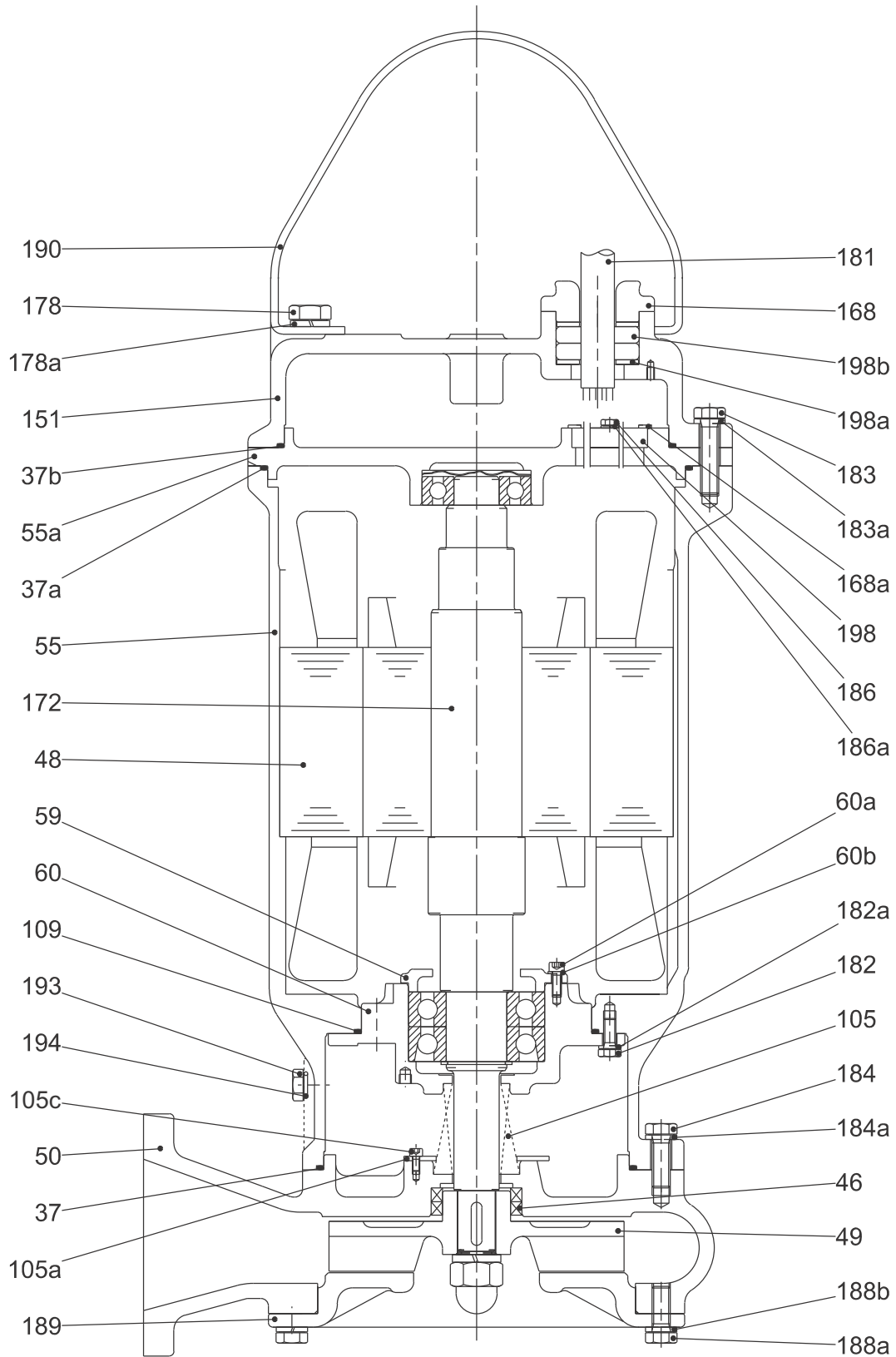


Fig. 29 DPK.20.100.110, DPK.20.100.150

TM04 4373 1809

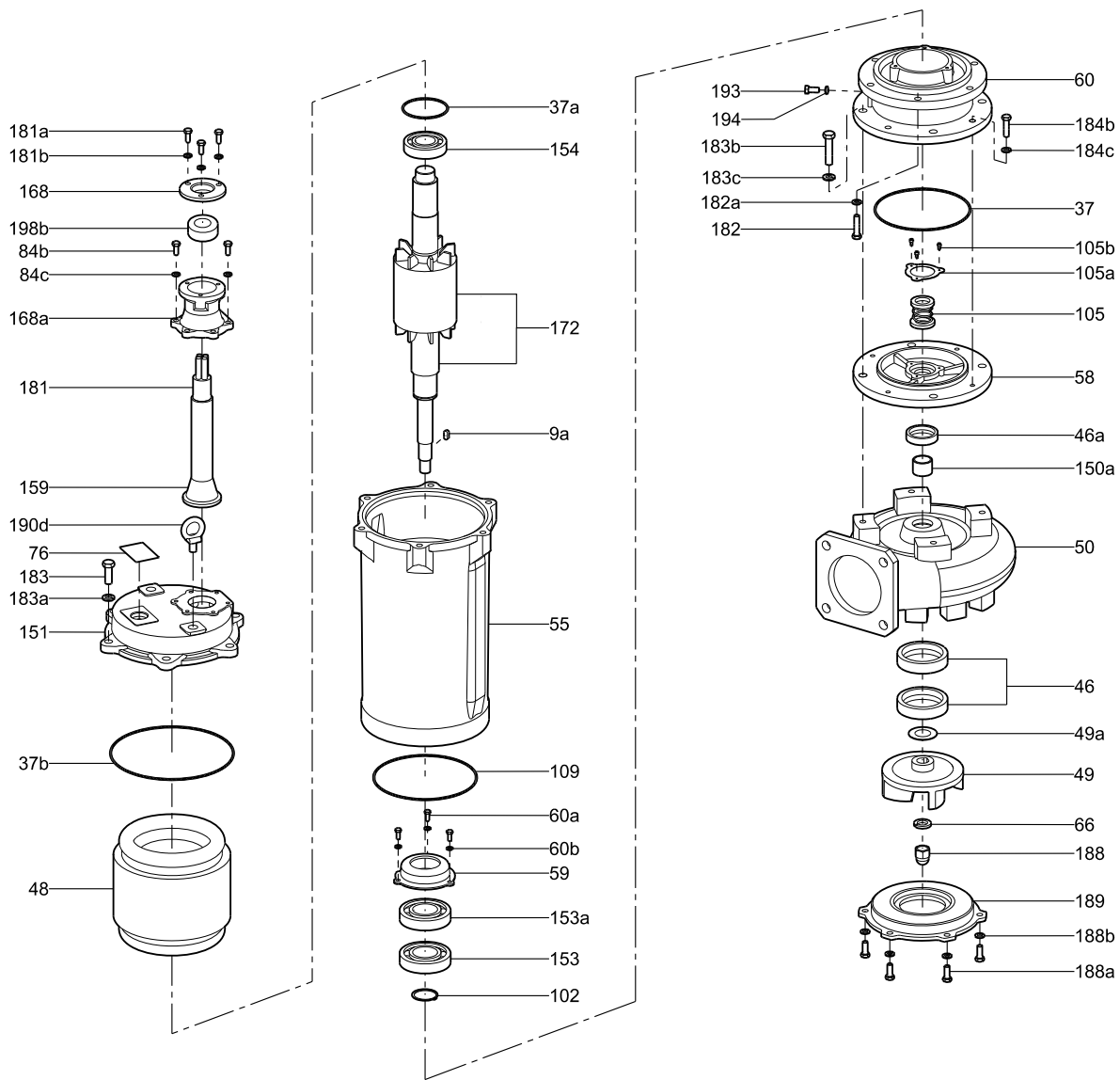


Fig. 30 DPK.20.150.190, DPK.20.150.220

TM04-4706 1909

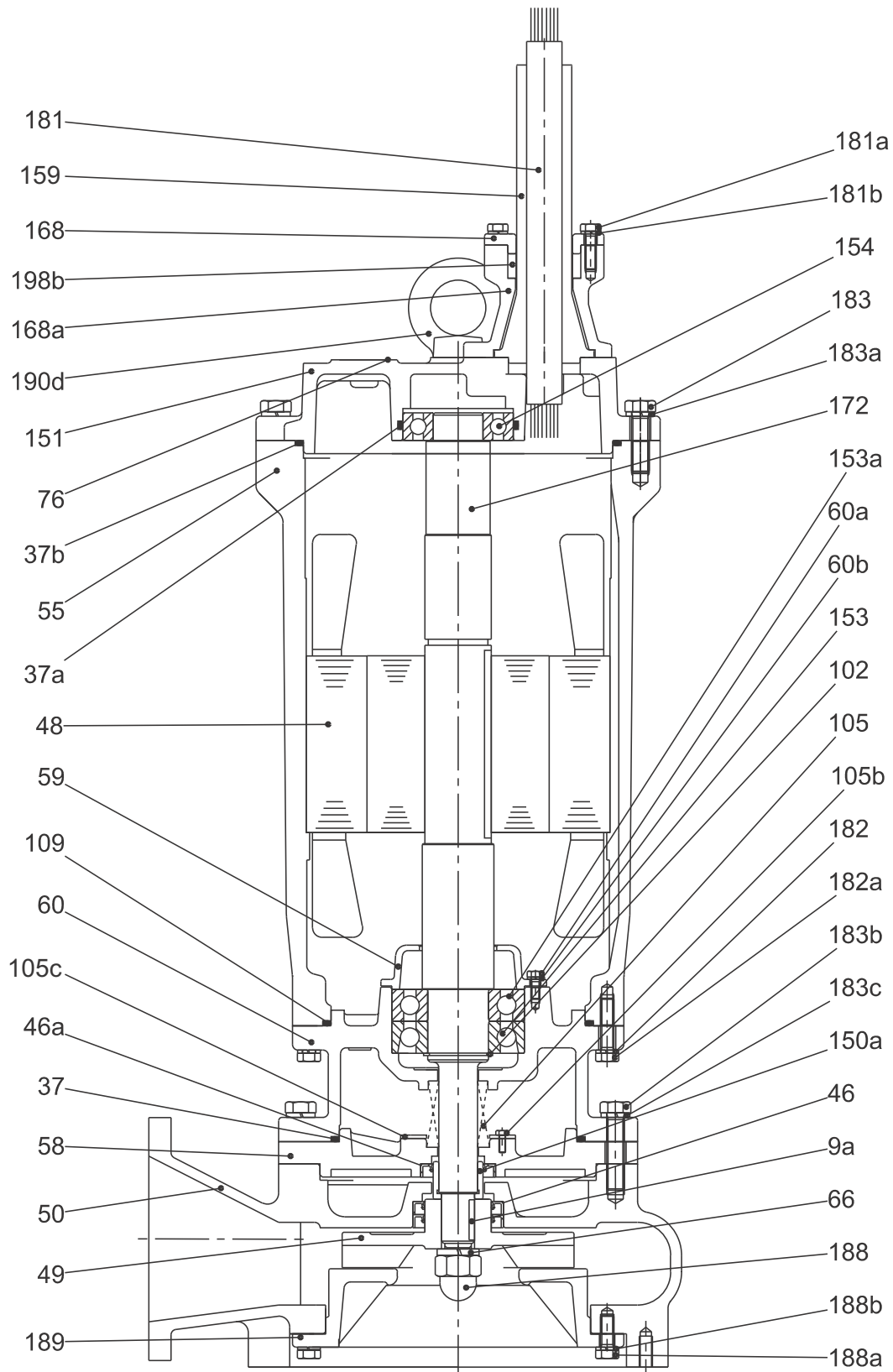


Fig. 31 DPK.20.150.190, DPK.20.150.220

TM04 4368 1809

Material specification

Pos.	Designation	Material		
		KS	ASTM	DIN
9	a Key	STS410	ANSI410	17440
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	GCD450/Hi-Cr	A536-77/Hi-Cr	GGG40/Hi-CrI
49	a Spacer ring	SS400	A283-Gr.D	-
50	Pump housing	GC200	A48-CL30	GG20
55	Motor housing	GC200	A48-CL30	GG20
55	a Outer casing (DWK.E)	SPP	A53-48	1629(1)-61
	Motor bracket (DPK)	GC200	A28-CL30	GG20
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 bracket (DWK)	GC200	A48-CL30	GG20
	Head cover (DPK)	GC200	A48-CL30	GG20
153	Lower bearing	-	-	-
153	a Lower bearing	-	-	-
154	Upper bearing	-	-	-
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

Pos.	Designation	Material		
		KS	ASTM	DIN
181	Power supply cable	PNCT	PNCT	PNCT
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 washer	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 (DWK)	GCD450	536-77	GGG40
	Suction cover (DPK)	GC200	A28-CL30	GG20
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

8. Product description

Features

Ball bearings

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

The upper bearing (pos. 154) is a single-row deep-groove ball bearing.

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 located 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 a 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 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	17.5	88	263
4 x 2.5 mm ² + 4 x 1 mm ²	19.3	97	290
4 x 4.0 mm ² + 4 x 1 mm ²	21.5	108	323
4 x 6.0 mm ² + 4 x 1 mm ²	24.6	123	369
4 x 10.0 mm ² + 6 x 1 mm ²	23.6	118	354
7 x 4.0 mm ² + 4 x 1 mm ²	24.4	122	366
7 x 6.0 mm ² + 6 x 1 mm ²	25.4	127	381
7 x 10.0 mm ² + 6 x 1.5 mm ²	28.6	143	429
7 x 16.0 mm ² + 6 x 1.5 mm ²	31.2	156	468
7 x 25.0 mm ² + 6 x 1.5 mm ²	43.4	217	651
7 x 35.0 mm ² + 6 x 1.5 mm ²	47.5	238	713

The cables are 10 m long as standard. Other cable lengths are available on request. See section *List of variants*, page 14.

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 consisting of a rubber seal bushing, an epoxy diaphragm and a rubber cover. This provides radial and axial barrier against water penetration into the motor housing.

Sensors

As standard, the pumps are fitted with a bimetallic thermal switch that will cut the circuit when the 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
 DWK.O.x.x.37.x.0D.R.

The above-mentioned pumps have a circuit breaker instead of the bimetallic thermal switch.

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

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

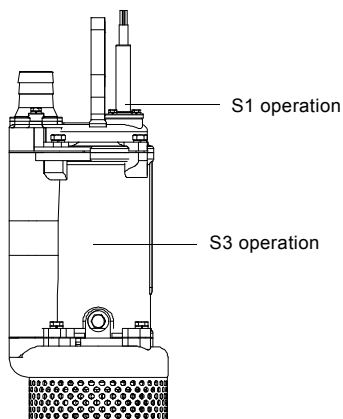
Testing

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*, page 14.

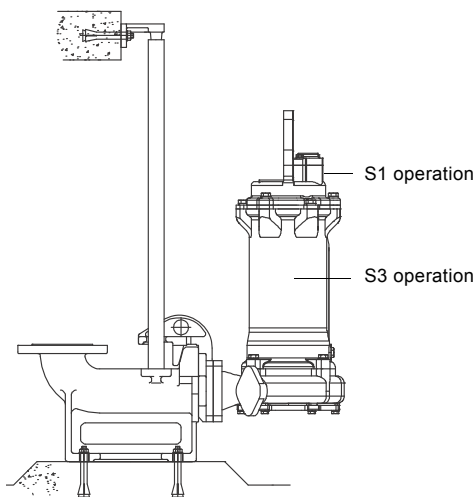
Operating conditions

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



TM04 4144 0709

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

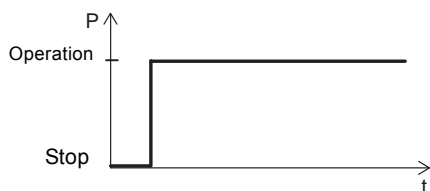


TM04 4094 0709

Fig. 33 Liquid level for DPK 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.

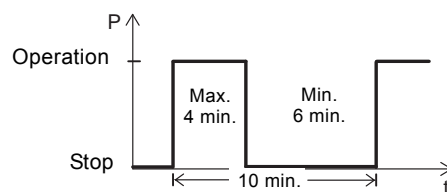


TM02 7775 4003

Fig. 34 Continuous operation

Intermittent operation

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



TM04 2656 2808

Fig. 35 Intermittent operation

Maximum number of starts per hour

DWK.O, DPK: 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 controllers 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

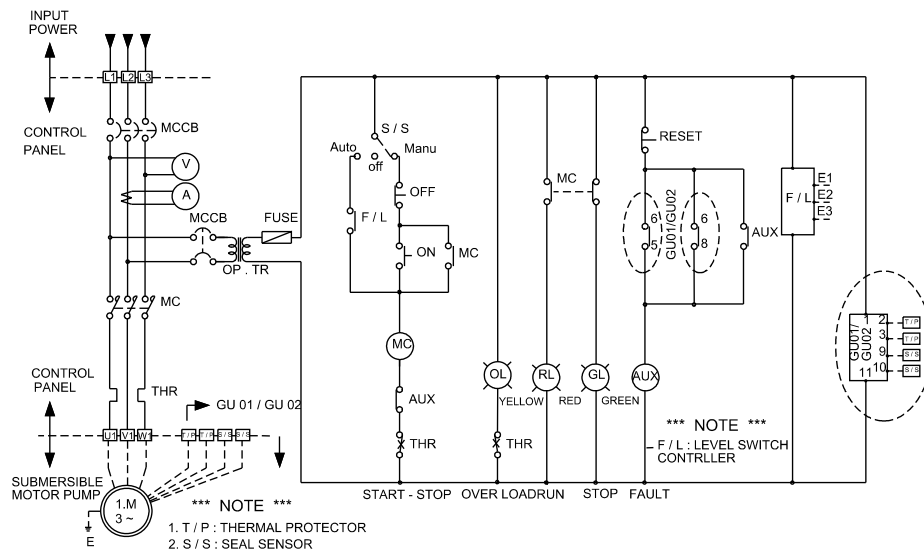
In principle, all three-phase motors can be connected to a frequency converter.

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.

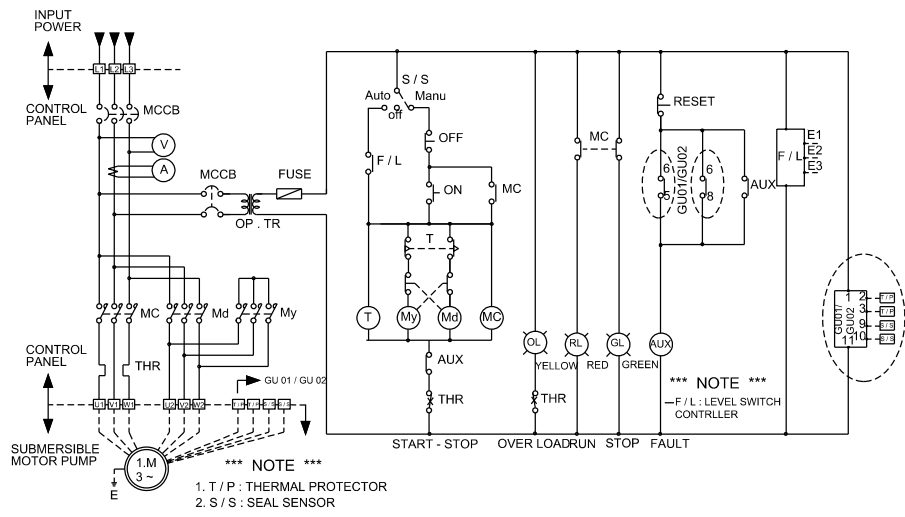
For more information, please see the installation and operating instructions, 96937255, for DWK and 96937253 for DPK on www.grundfos.com (WebCAPS).

Wiring diagrams



TM04 4096 0709

Fig. 36 Wiring diagram, DOL starting

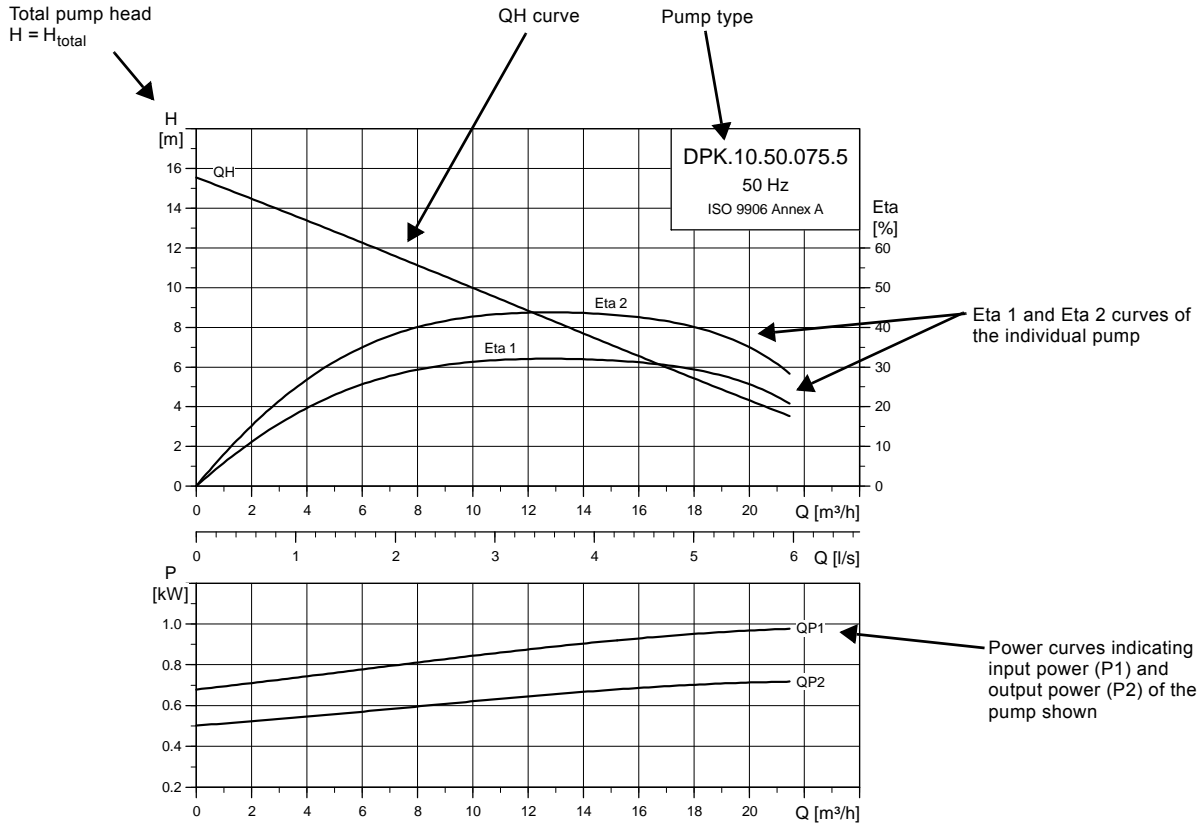


TM04 4097 0709

Fig. 37 Wiring diagram, star-delta starting

9. Curve charts and technical data

How to read the curve charts



TM04 2875 1409

Curve conditions

The guidelines below apply to the curves shown in the performance charts on pages 50 to 123.

- 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 mm²/s (1 cSt).
- **Eta:** The lines show values of the hydraulic efficiency of the pump for the different impeller diameters.
- In the case of other densities than 1000 kg/m³, the discharge pressure is proportional to the density.
- When pumping liquids with a density higher than 1000 kg/m³, 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 + differential head + dynamic head.

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

- H_{geo} : Height difference between measuring points.
 H_{stat} : Differential head between the suction and discharge sides of the pump.
 H_{dyn} : Calculated values based on the velocity of the pumped liquid on the suction and discharge sides of the pump.

Performance tests

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

If pumps are ordered on the basis of impeller diameter only (no requested duty point), the pump will be tested at a duty point (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.

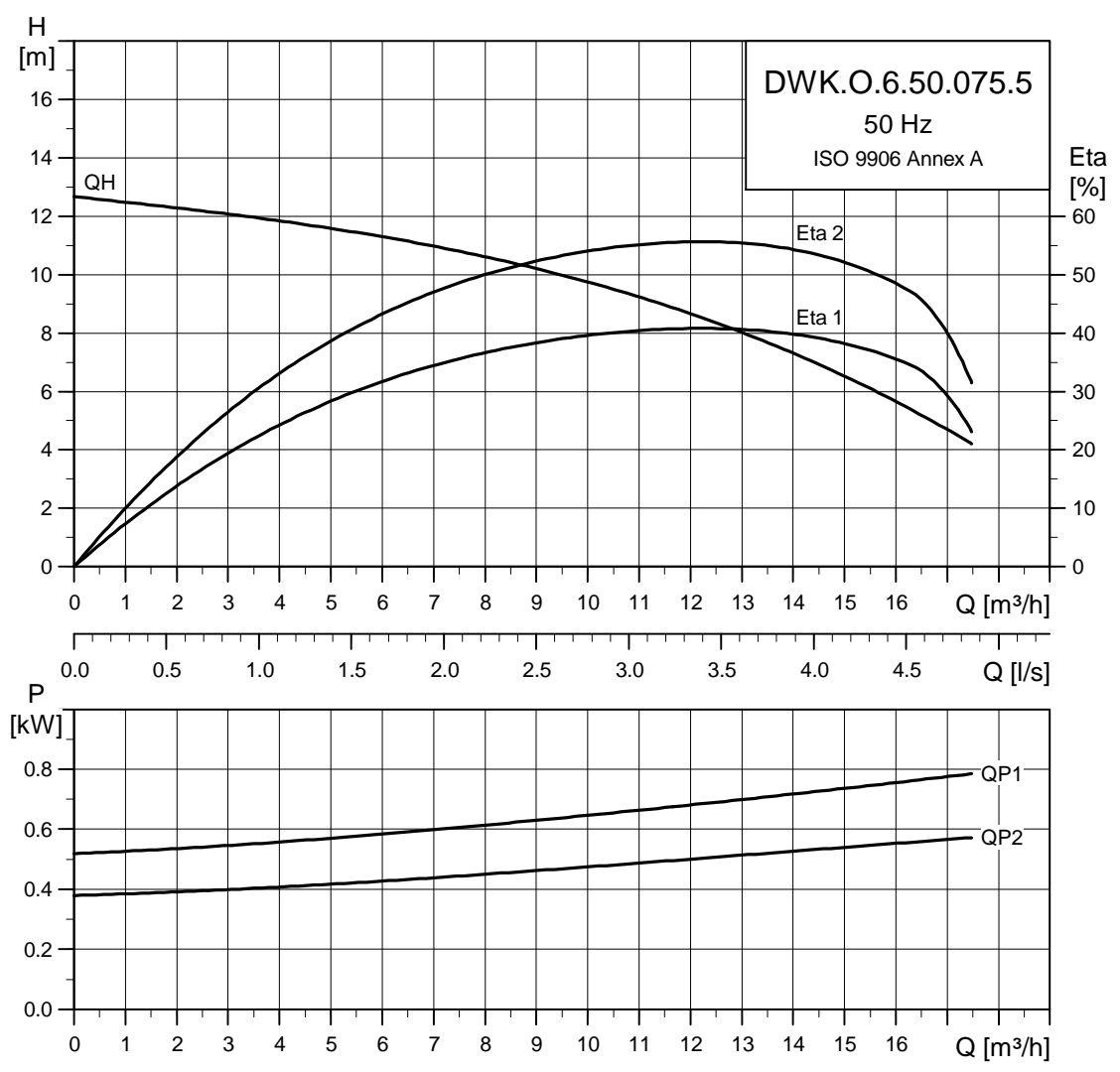
The witness test is not a certificate and will not result in a written statement from Grundfos. The witness is the only guarantee that everything is carried out as prescribed in the testing procedure.

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

10. Performance curves/technical data

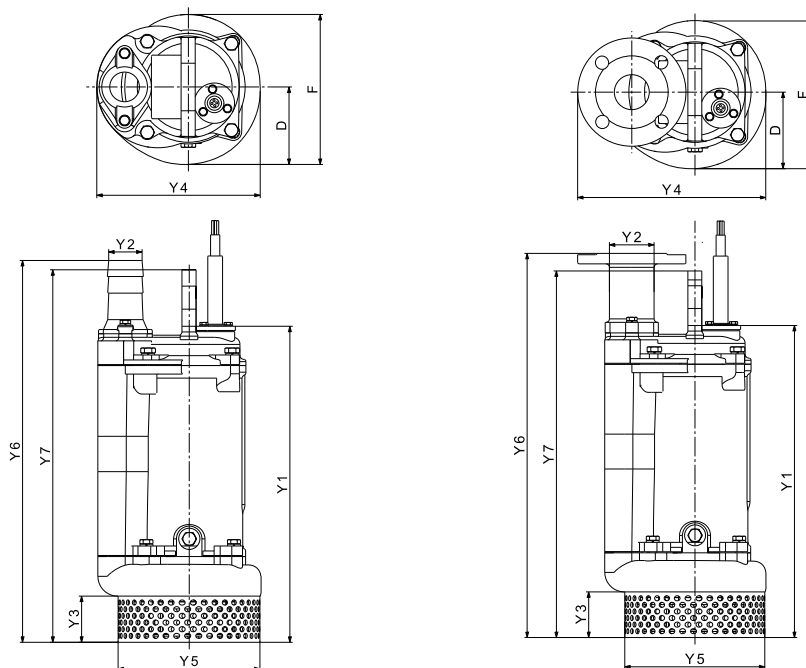
DWK.O

DWK.O.6.50.075.5



TM04 2918 1409

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	459	448	110	213	31
	Flange	398	50	65	270	202	487	448	110	213	31

With 10 m cable.

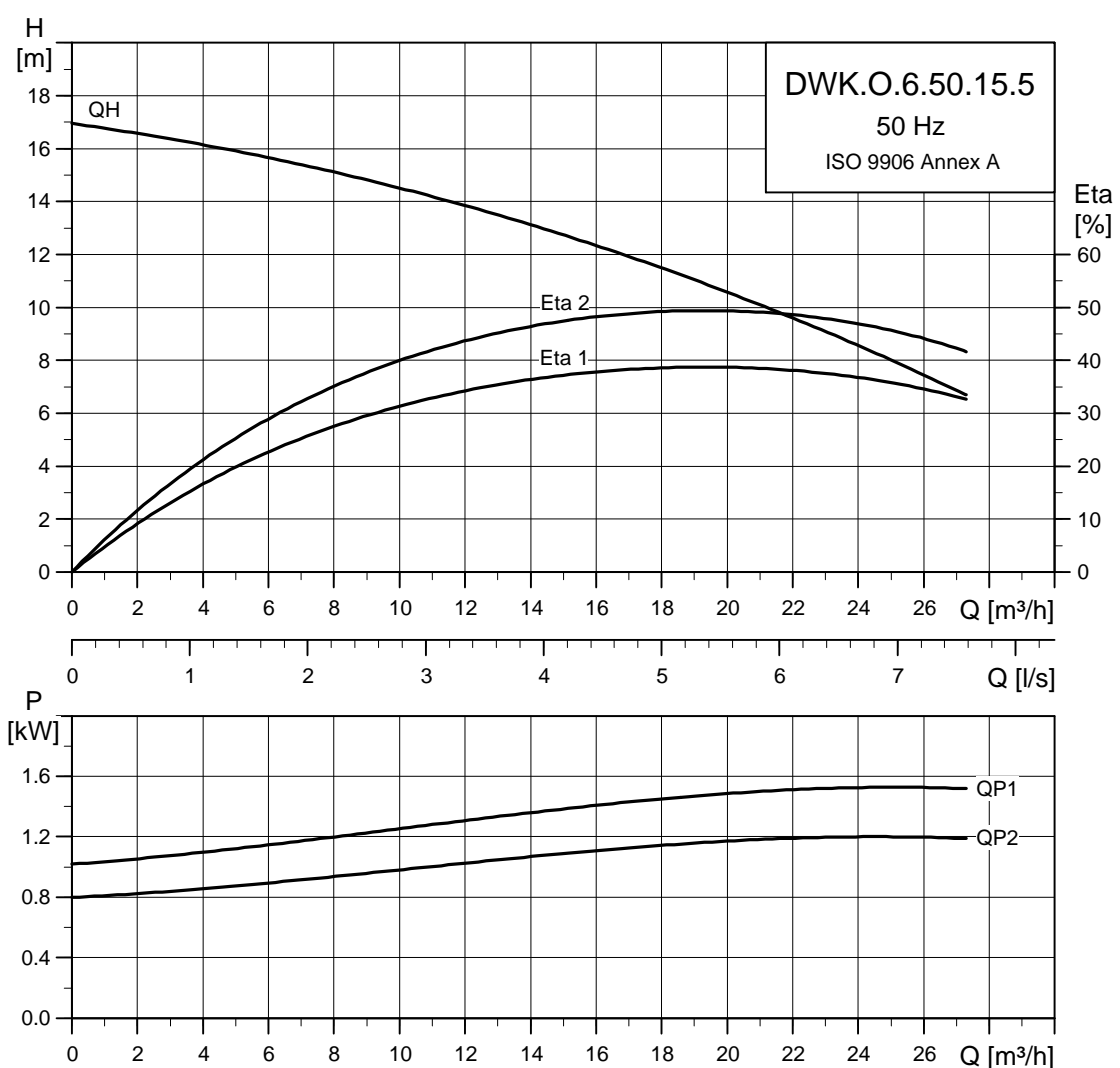
Electrical data

Pump type	Voltage [V]	P2 [kW]	min ⁻¹	Starting method	I _N [A]	η _{motor} [%]				Cos φ			Cable
						1/2	3/4	1/1	1/2	3/4	1/1		
DWK.O.6.50.075.5.0D	3 x 380-415 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 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 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 Y	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

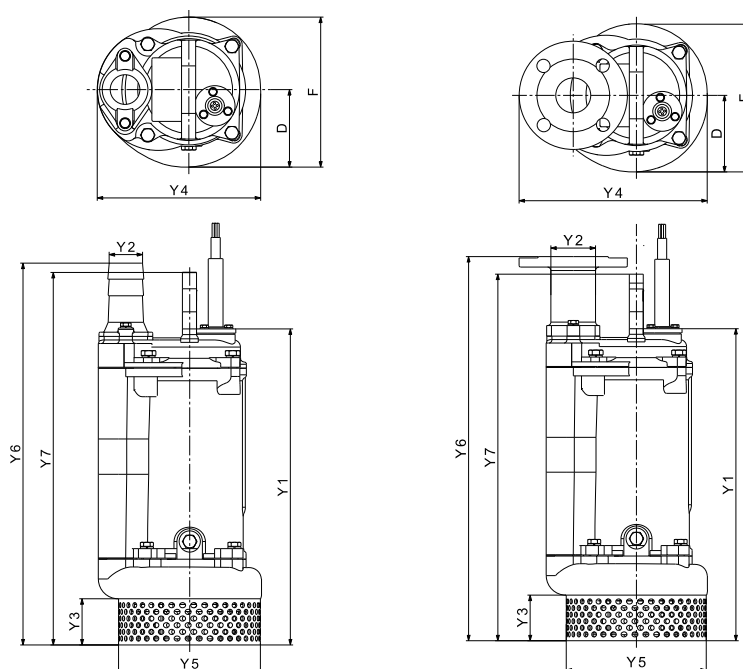
Pump type	Impeller type	Max. solids size [mm]	Max. number of starts per hour	Max. installation depth [m]	Enclosure class	Insulation class	Max. liquid temperature [°C]	pH
DWK.O.6.50.075.5	Semi-open	6	30	25	68	F	40	4-10

DWK.O.6.50.15.5



TM04 2919 0211

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	489	478	110	213	41
	Flange	428	50	65	270	202	517	478	110	213	41

With 10 m cable.

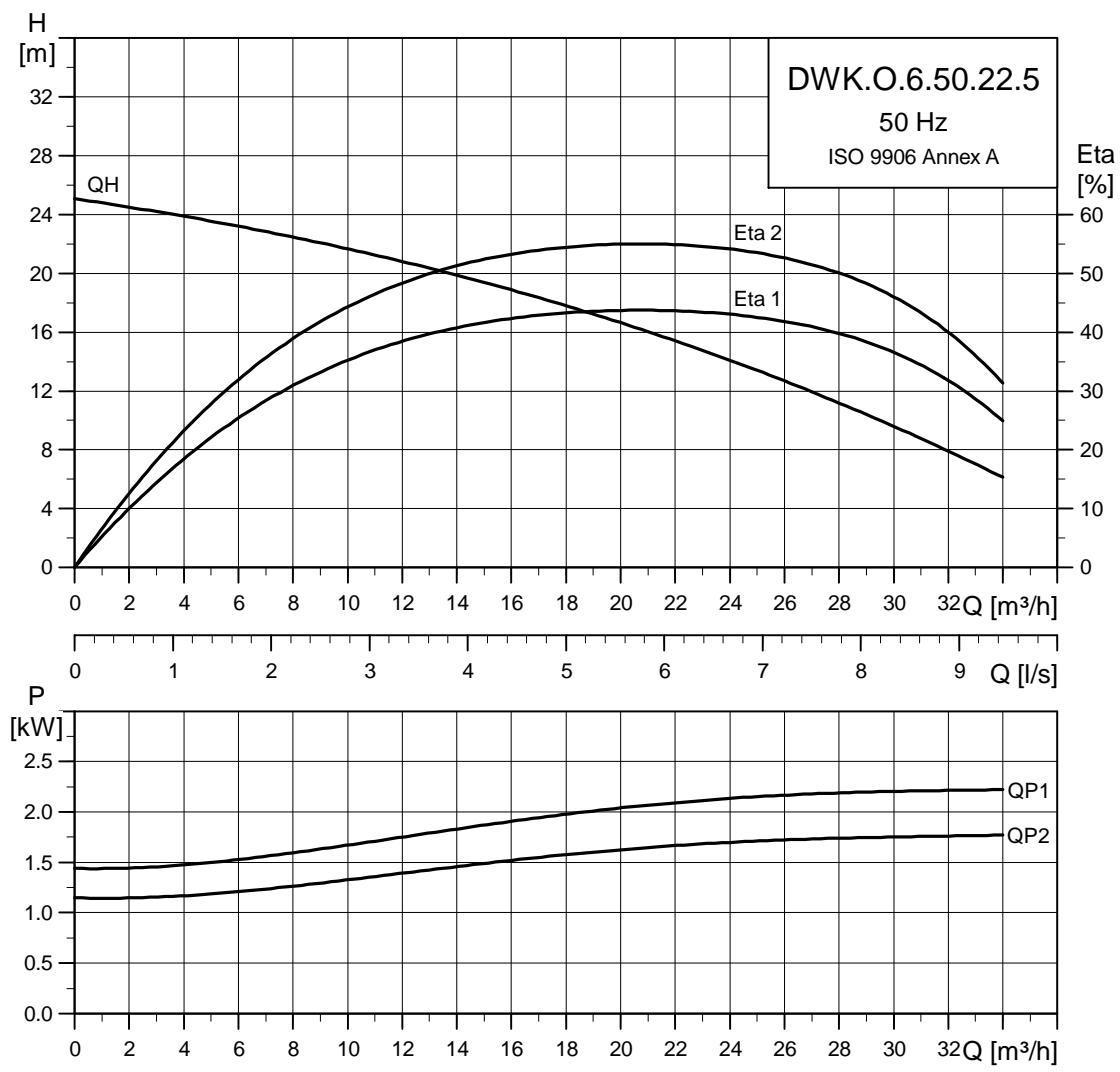
Electrical data

Pump type	Voltage [V]	P2 [kW]	min ⁻¹	Starting method	I _N [A]	η _{motor} [%]			Cos φ			Cable
						1/2	3/4	1/1	1/2	3/4	1/1	
DWK.O.6.50.15.5.0D	3 x 380-415 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 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 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 Y	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

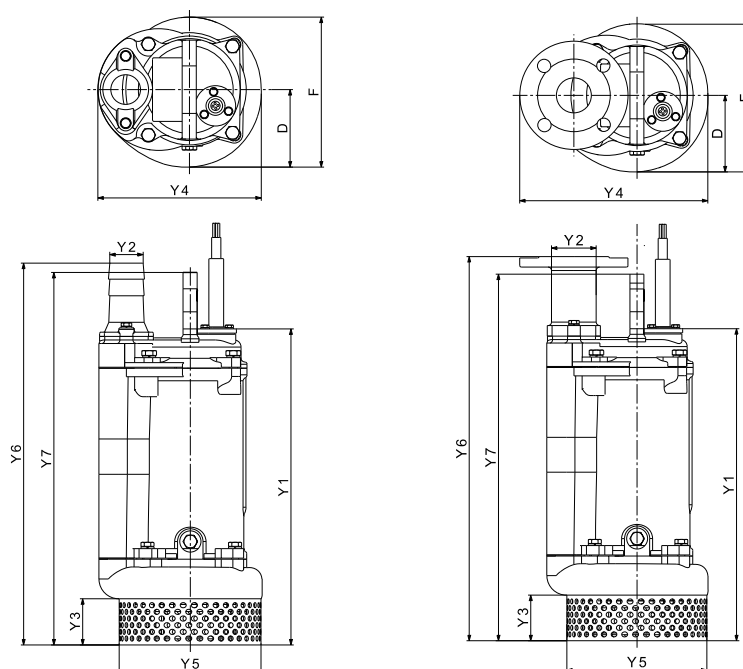
Pump type	Impeller type	Max. solids size [mm]	Max. number of starts per hour	Max. installation depth [m]	Enclosure class	Insulation class	Max. liquid temperature [°C]	pH
DWK.O.6.50.15.5	Semi-open	6	30	25	68	F	40	4-10

DWK.O.6.50.22.5



TM04 2920 1409

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	509	498	110	213	45
	Flange	448	50	65	270	202	537	498	110	213	45

With 10 m cable.

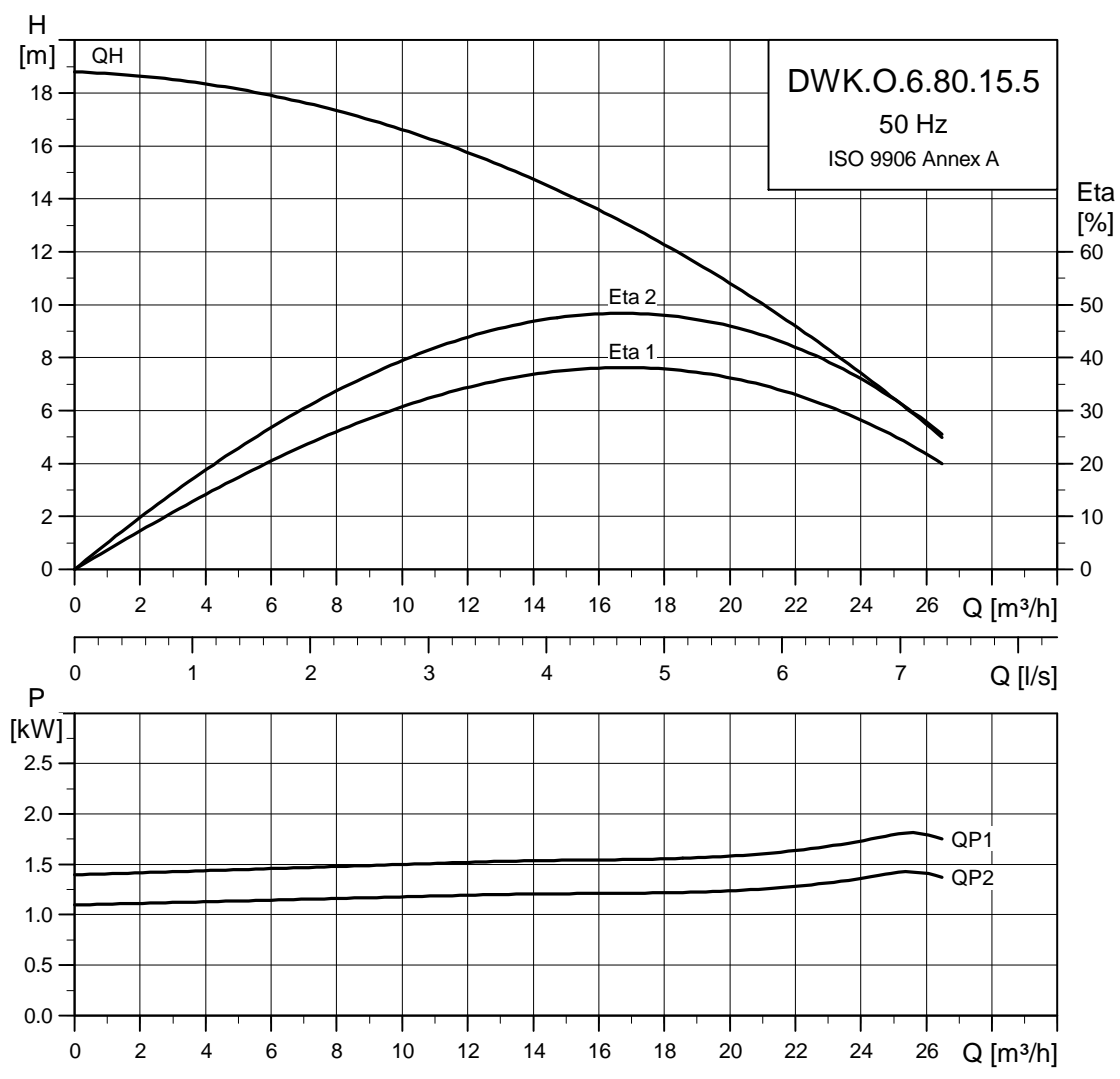
Electrical data

Pump type	Voltage [V]	P2 [kW]	min ⁻¹	Starting method	I _N [A]	η _{motor} [%]			Cos φ			Cable
						1/2	3/4	1/1	1/2	3/4	1/1	
DWK.O.6.50.22.5.0D	3 x 380-415 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 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 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 Y	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

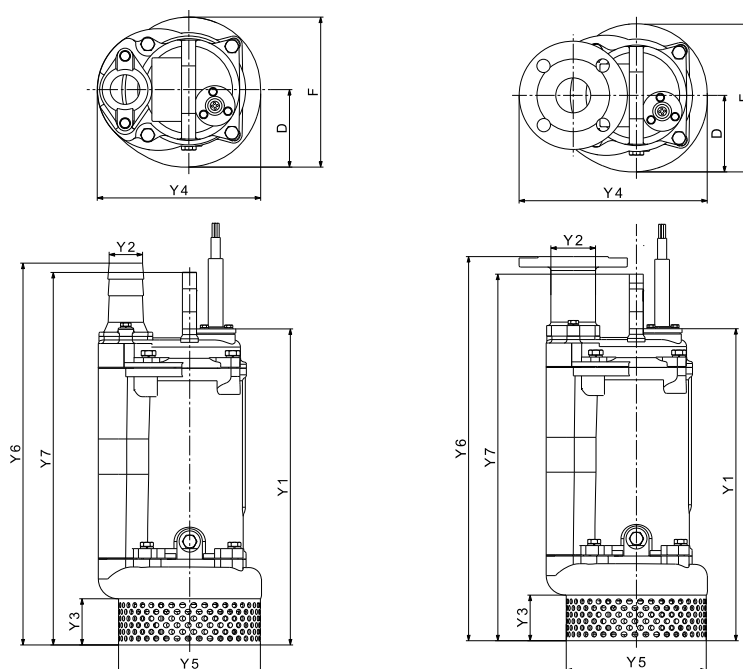
Pump type	Impeller type	Max. solids size [mm]	Max. number of starts per hour	Max. installation depth [m]	Enclosure class	Insulation class	Max. liquid temperature [°C]	pH
DWK.O.6.50.22.5	Semi-open	6	30	25	68	F	40	4-10

DWK.O.6.80.15.5



TM04 2921 1409

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	557	478	110	213	41
	Flange	428	80	65	285	202	517	478	110	213	41

With 10 m cable.

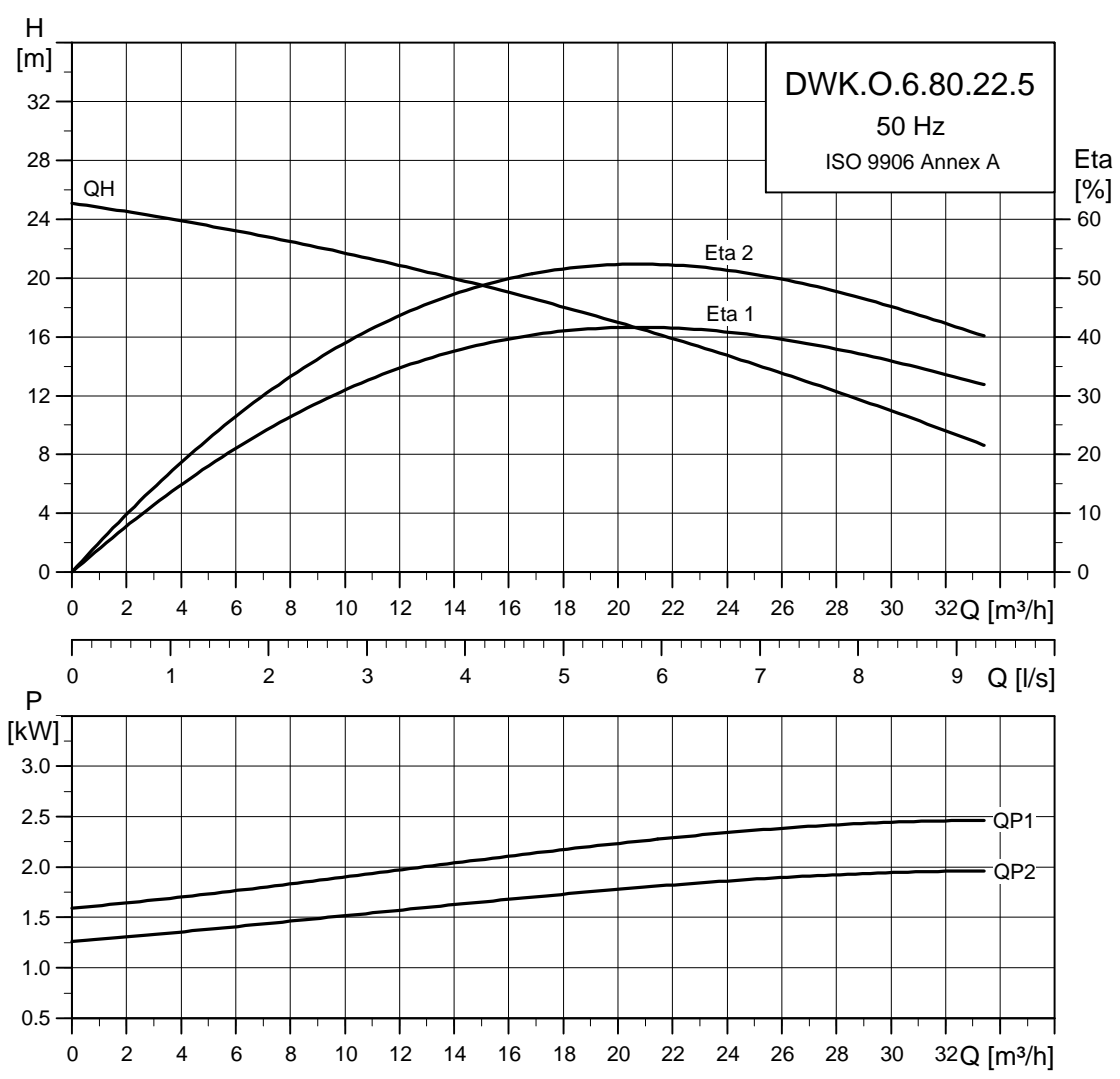
Electrical data

Pump type	Voltage [V]	P2 [kW]	min ⁻¹	Starting method	I _N [A]	η _{motor} [%]			Cos φ			Cable
						1/2	3/4	1/1	1/2	3/4	1/1	
DWK.O.6.80.15.5.0D	3 x 380-415 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 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 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 Y	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

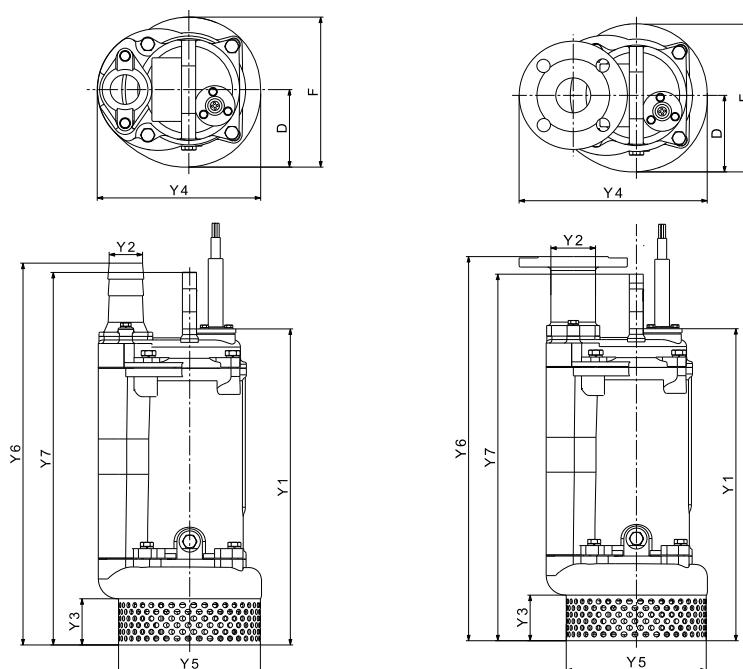
Pump type	Impeller type	Max. solids size [mm]	Max. number of starts per hour	Max. installation depth [m]	Enclosure class	Insulation class	Max. liquid temperature [°C]	pH
DWK.O.6.80.15.5	Semi-open	6	30	25	68	F	40	4-10

DWK.O.6.80.22.5



TM04 2922 02 11

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	577	498	110	213	45
	Flange	448	80	65	285	202	537	498	110	213	45

With 10 m cable.

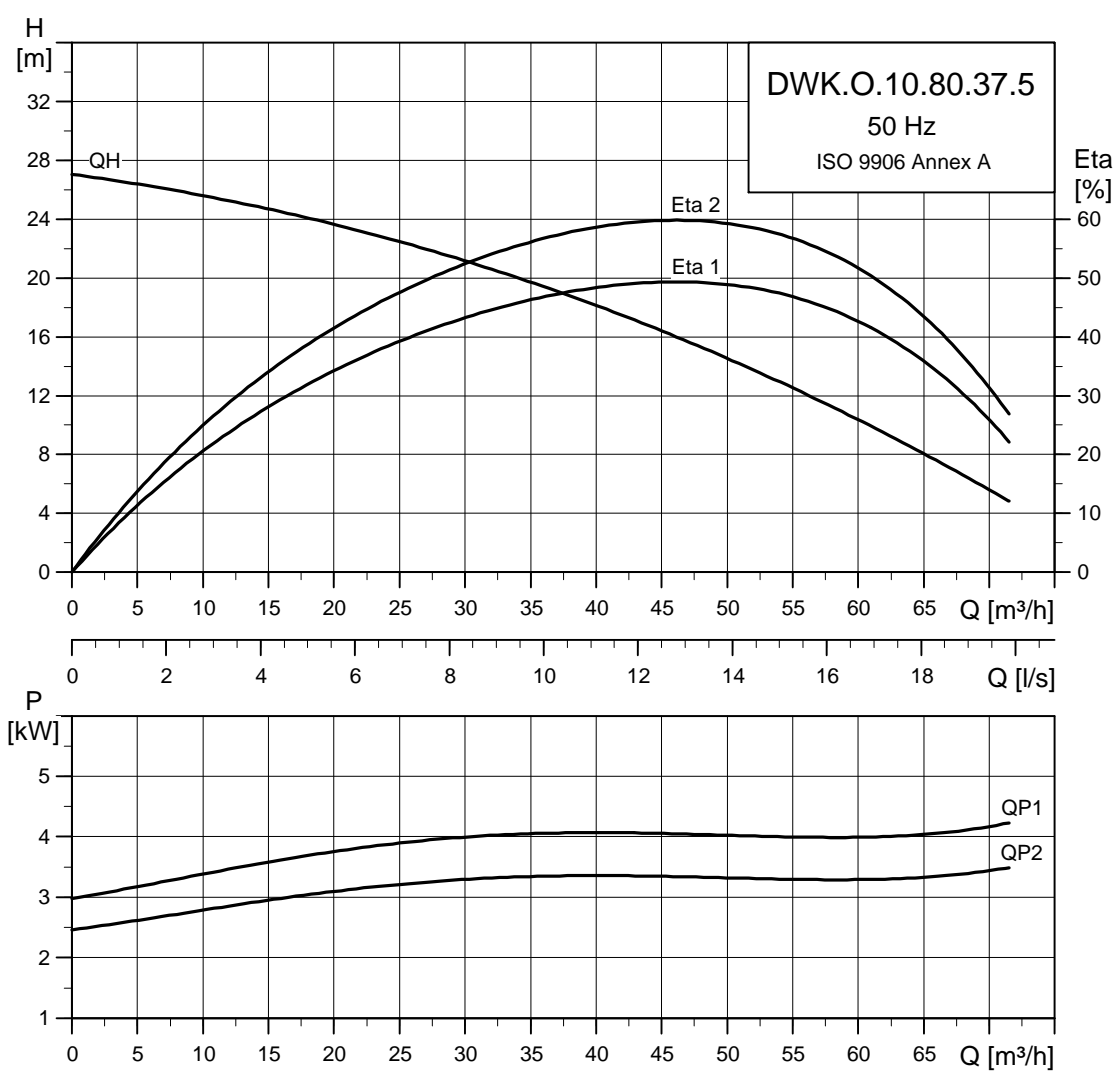
Electrical data

Pump type	Voltage [V]	P2 [kW]	min ⁻¹	Starting method	I _N [A]	η _{motor} [%]			Cos φ			Cable
						1/2	3/4	1/1	1/2	3/4	1/1	
DWK.O.6.80.22.5.0D	3 x 380-415 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 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 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 Y	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

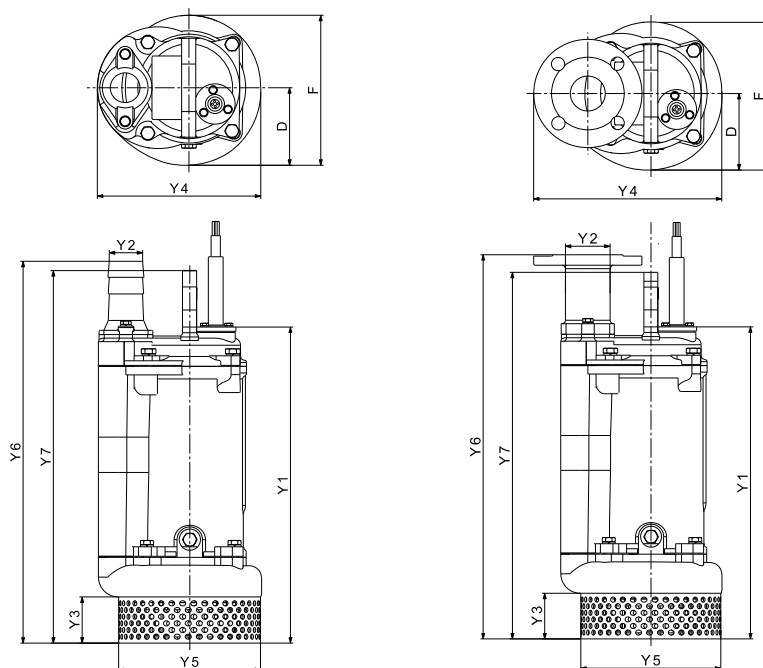
Pump type	Impeller type	Max. solids size [mm]	Max. number of starts per hour	Max. installation depth [m]	Enclosure class	Insulation class	Max. liquid temperature [°C]	pH
DWK.O.6.80.22.5	Semi-open	6	30	25	68	F	40	4-10

DWK.O.10.80.37.5



TM04 2923 0211

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	80	90	286	234	686	680	134	253	81
	Flange	591	80	90	314	234	726	680	134	253	81

With 10 m cable.

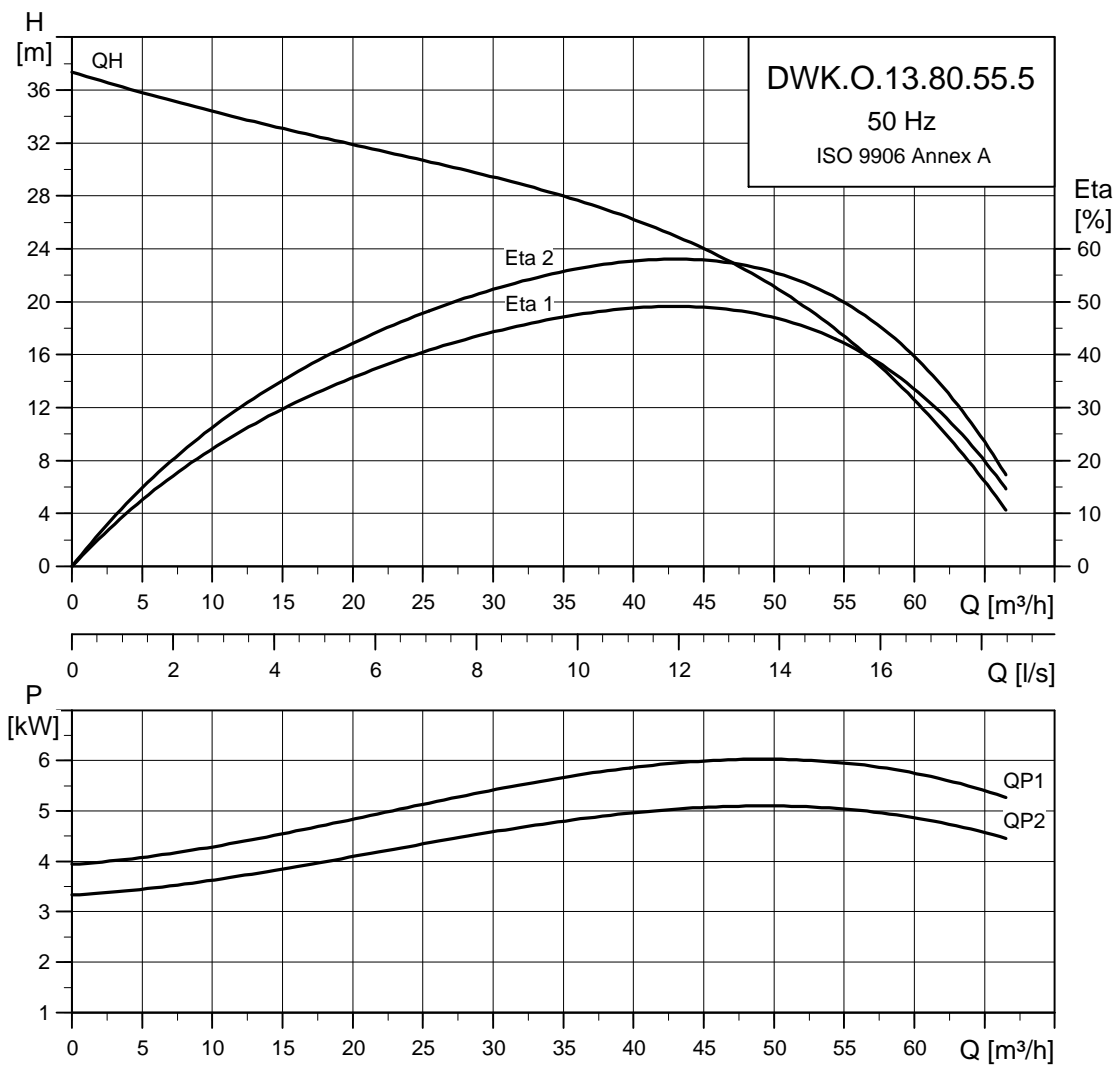
Electrical data

Pump type	Voltage [V]	P2 [kW]	min ⁻¹	Starting method	I _N [A]	η _{motor} [%]			Cos φ			Cable
						1/2	3/4	1/1	1/2	3/4	1/1	
DWK.O.10.80.37.5.0D	3 x 380-415 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 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 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 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

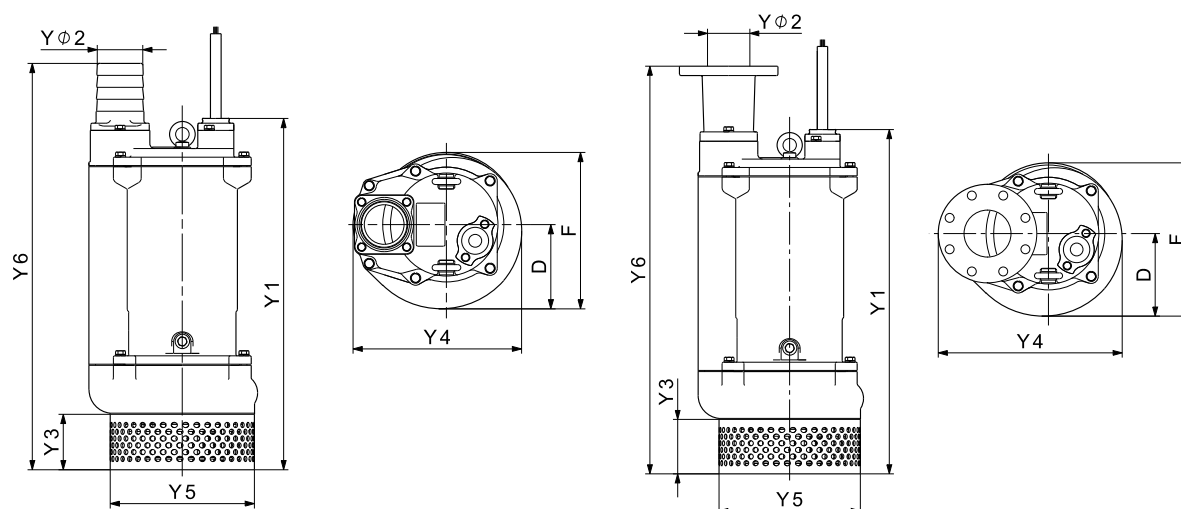
Pump type	Impeller type	Max. solids size [mm]	Max. number of starts per hour	Max. installation depth [m]	Enclosure class	Insulation class	Max. liquid temperature [°C]	pH
DWK.O.10.80.37.5	Semi-open	10	30	25	68	F	40	4-10

DWK.O.13.80.55.5



TM04 2924 0211

Dimensional sketches



TM04 6998 1610 - TM04 6999 1610

Dimensions

Pump type	Connection type	Y1	Y2	Y3	Y4	Y5	Y6	D	F	Weight [kg]
DWK.O.13.80.55	Hose	734	80	116	353	302	829	177	323	110
	Flange	734	80	116	381	302	869	177	323	110

With 10 m cable.

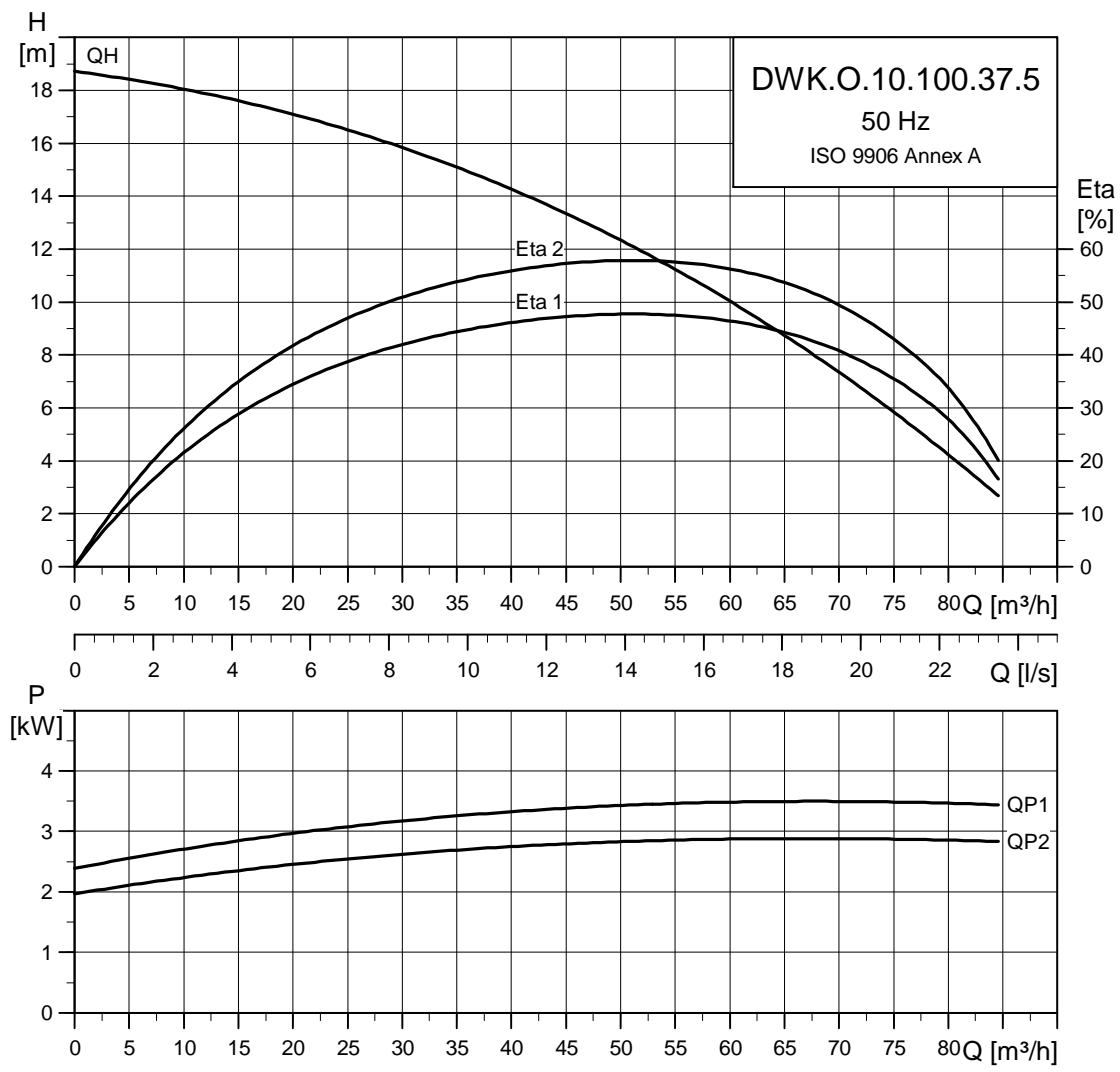
Electrical data

Pump type	Voltage [V]	P2 [kW]	min ⁻¹	Starting method	I _N [A]	η _{motor} [%]			Cos φ			Cable
						1/2	3/4	1/1	1/2	3/4	1/1	
DWK.O.13.80.55.5.0D	3 x 380-415 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 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 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 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 D	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 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 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 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

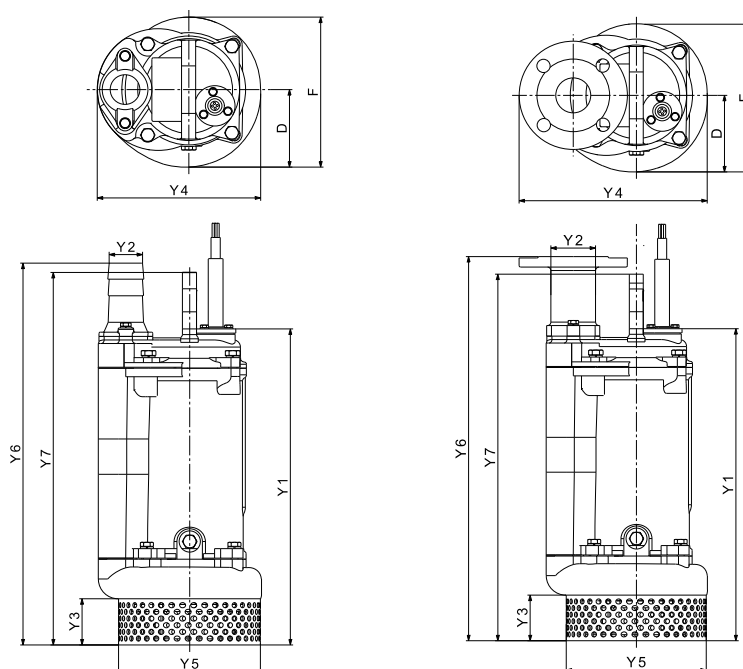
Pump type	Impeller type	Max. solids size [mm]	Max. number of starts per hour	Max. installation depth [m]	Enclosure class	Insulation class	Max. liquid temperature [°C]	pH
DWK.O.13.80.55.5	Semi-open	13	30	25	68	F	40	4-10

DWK.O.10.100.37.5



TM04 2925 1409

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	706	680	134	253	81
	Flange	591	100	90	326	234	726	680	134	253	81

With 10 m cable.

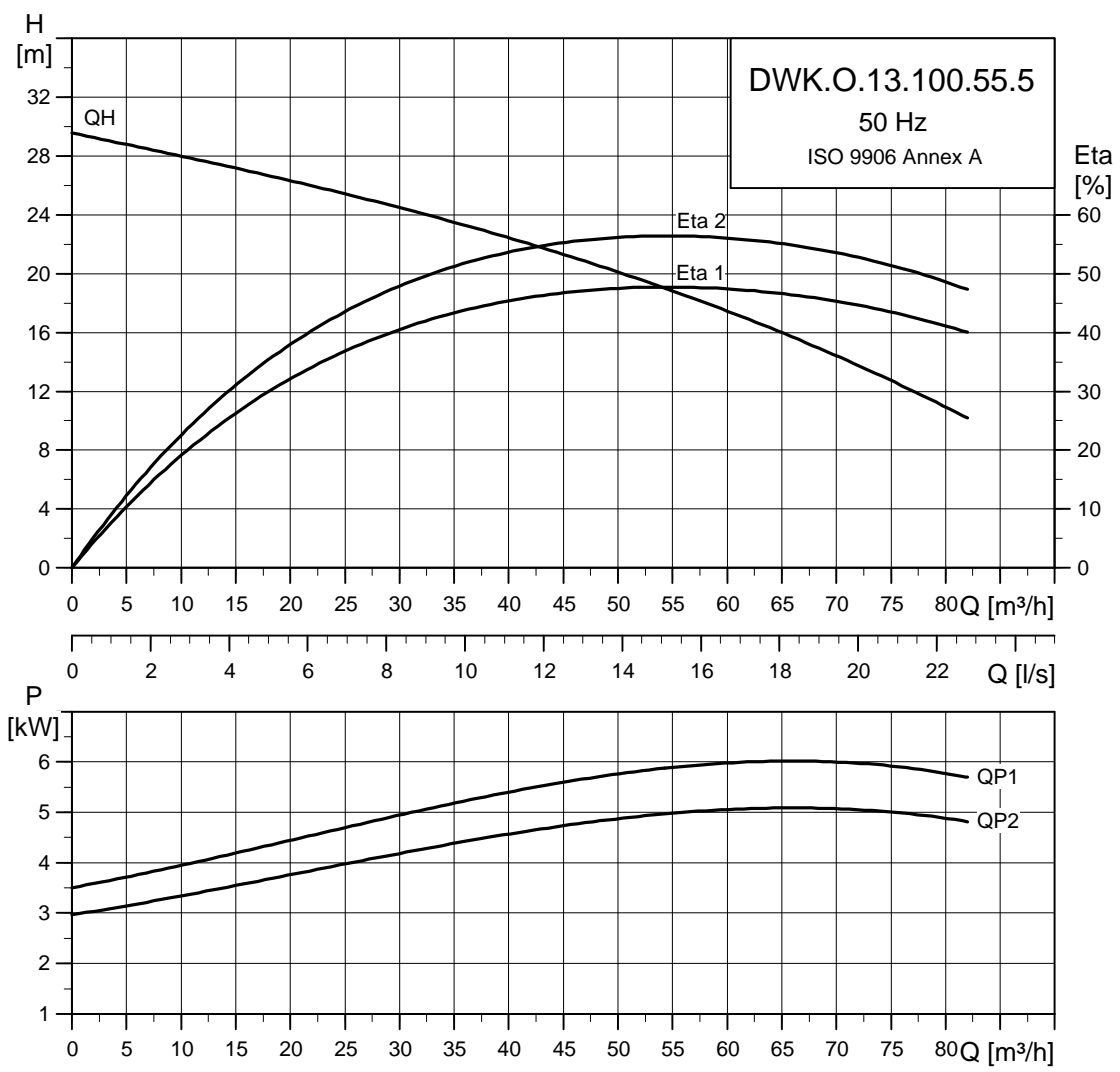
Electrical data

Pump type	Voltage [V]	P2 [kW]	min ⁻¹	Starting method	I _N [A]	η _{motor} [%]			Cos φ			Cable
						1/2	3/4	1/1	1/2	3/4	1/1	
DWK.O.10.100.37.5.0D	3 x 380-415 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	3 x 220-240 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	3 x 380-415 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	3 x 220-240 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

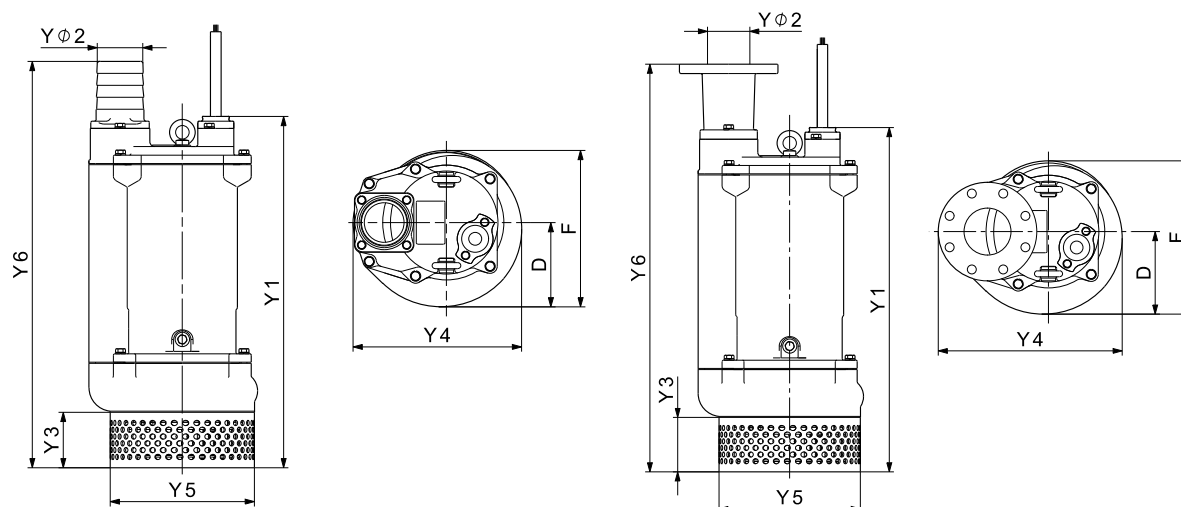
Pump type	Impeller type	Max. solids size [mm]	Max. number of starts per hour	Max. installation depth [m]	Enclosure class	Insulation class	Max. liquid temperature [°C]	pH
DWK.O.10.100.37	Semi-open	10	30	25	68	F	40	4-10

DWK.O.13.100.55.5



TM04 2926 0211

Dimensional sketches



TM04 6998 1610 - TM04 6999 1610

Dimensions

Pump type	Connection type	Y1	Y2	Y3	Y4	Y5	Y6	D	F	Weight [kg]
DWK.O.13.100.55	Hose	734	100	116	353	302	849	177	323	110
	Flange	734	100	116	393	302	869	177	323	110

With 10 m cable.

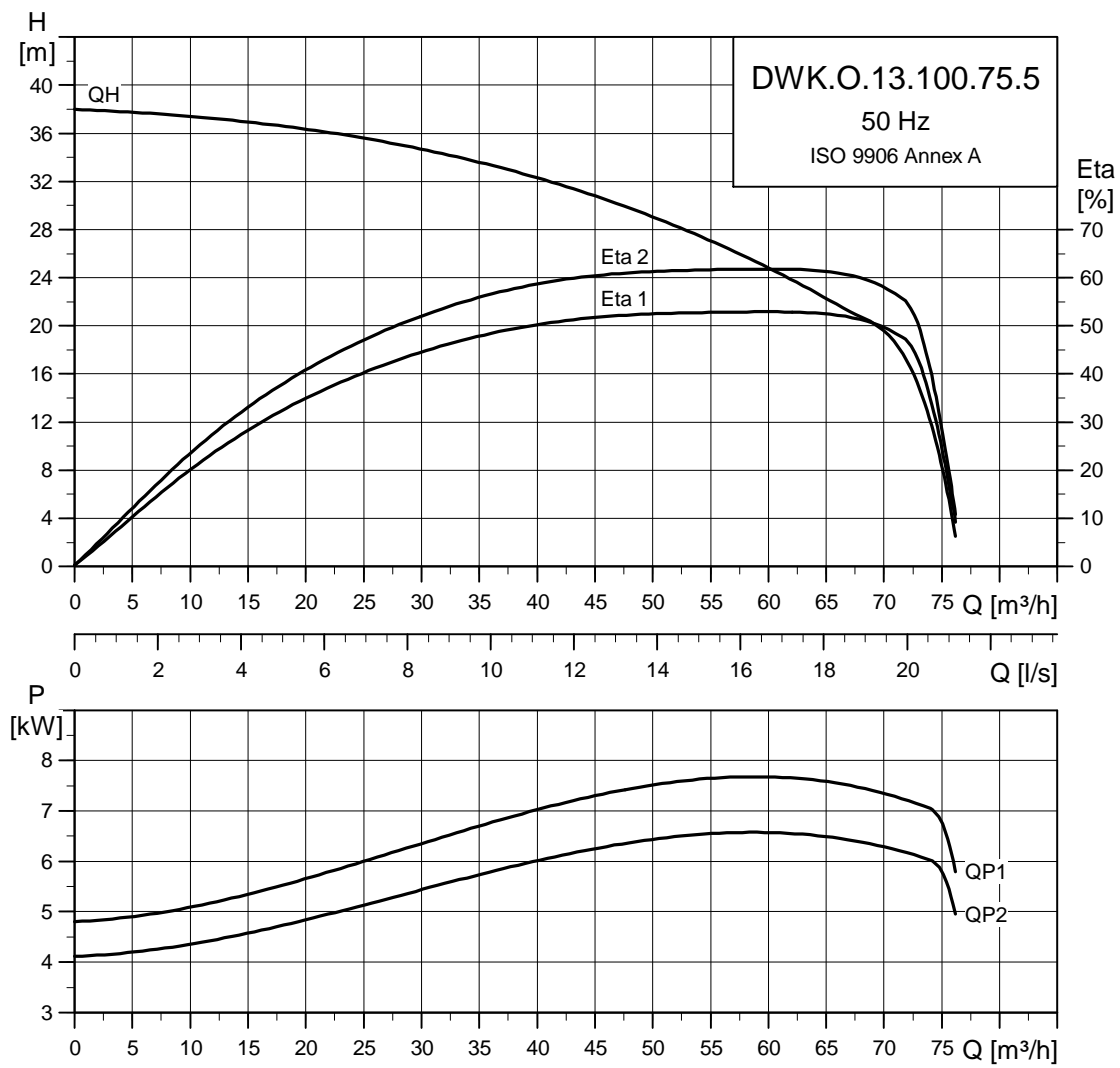
Electrical data

Pump type	Voltage [V]	P2 [kW]	min ⁻¹	Starting method	I _N [A]	η _{motor} [%]			Cos φ			Cable
						1/2	3/4	1/1	1/2	3/4	1/1	
DWK.O.13.100.55.5.0D	3 x 380-415 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 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 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 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 D	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 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 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 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

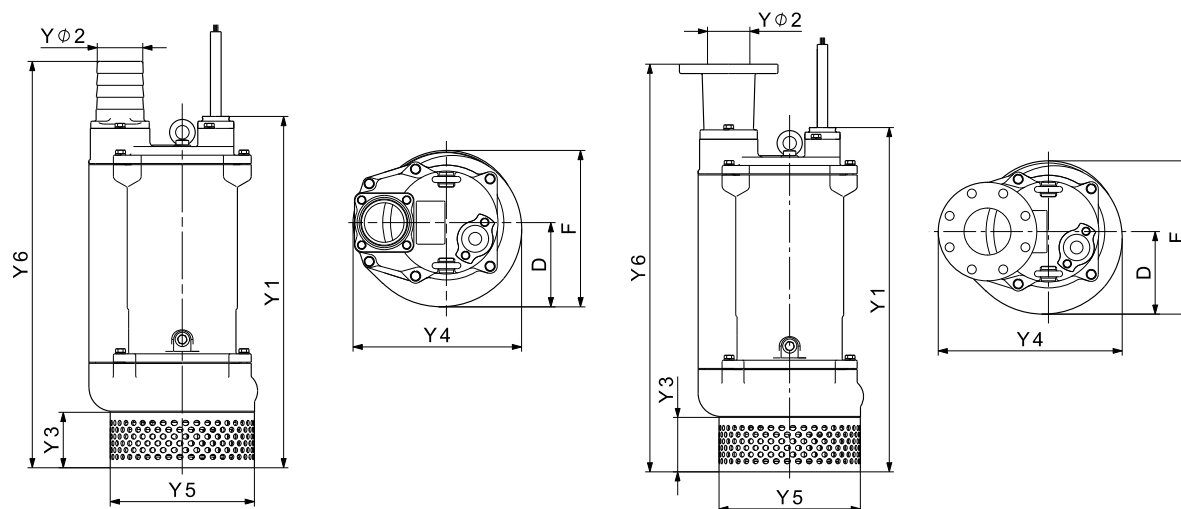
Pump type	Impeller type	Max. solids size [mm]	Max. number of starts per hour	Max. installation depth [m]	Enclosure class	Insulation class	Max. liquid temperature [°C]	pH
DWK.O.13.100.55	Semi-open	13	30	25	68	F	40	4-10

DWK.O.13.100.75.5



TM04 2927 0211

Dimensional sketches



TM04 6998 1610 - TM04 6999 1610

Dimensions

Pump type	Connection type	Y1	Y2	Y3	Y4	Y5	Y6	D	F	Weight [kg]
DWK.O.13.100.75	Hose	734	100	116	353	302	849	177	323	156
	Flange	734	100	116	393	302	869	177	323	156

With 10 m cable.

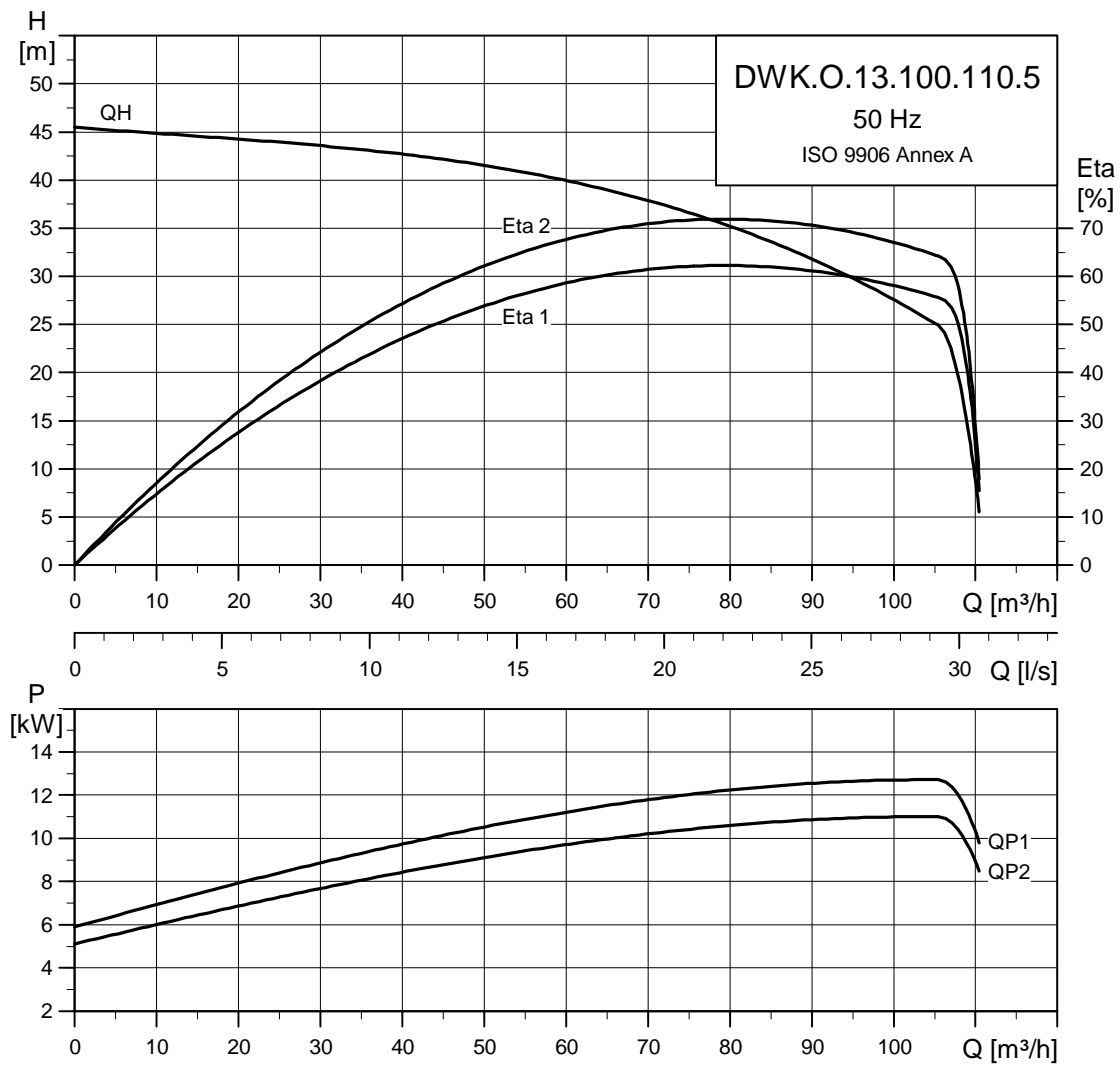
Electrical data

Pump type	Voltage [V]	P2 [kW]	min ⁻¹	Starting method	I _N [A]	η _{motor} [%]			Cos φ			Cable
						1/2	3/4	1/1	1/2	3/4	1/1	
DWK.O.13.100.75.5.0D	3 x 380-415 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 220-240 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 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 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 D	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 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 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 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

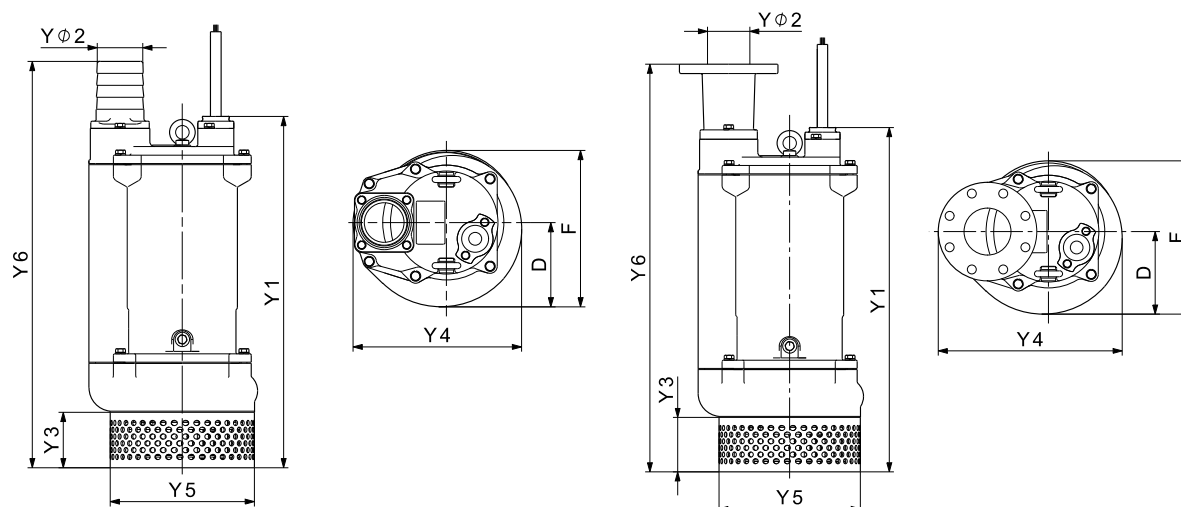
Pump type	Impeller type	Max. solids size [mm]	Max. number of starts per hour	Max. installation depth [m]	Enclosure class	Insulation class	Max. liquid temperature [°C]	pH
DWK.O.13.100.75	Semi-open	13	30	25	68	F	40	4-10

DWK.O.13.100.110.5



TM04 2928 1409

Dimensional sketches



TM04 6998 1610 - TM04 6999 1610

Dimensions

Pump type	Connection type	Y1	Y2	Y3	Y4	Y5	Y6	D	F	Weight [kg]
DWK.O.13.100.110.5	Hose	779	100	116	353	302	894	177	323	190
	Flange	779	100	116	393	302	914	177	323	190

With 10 m cable.

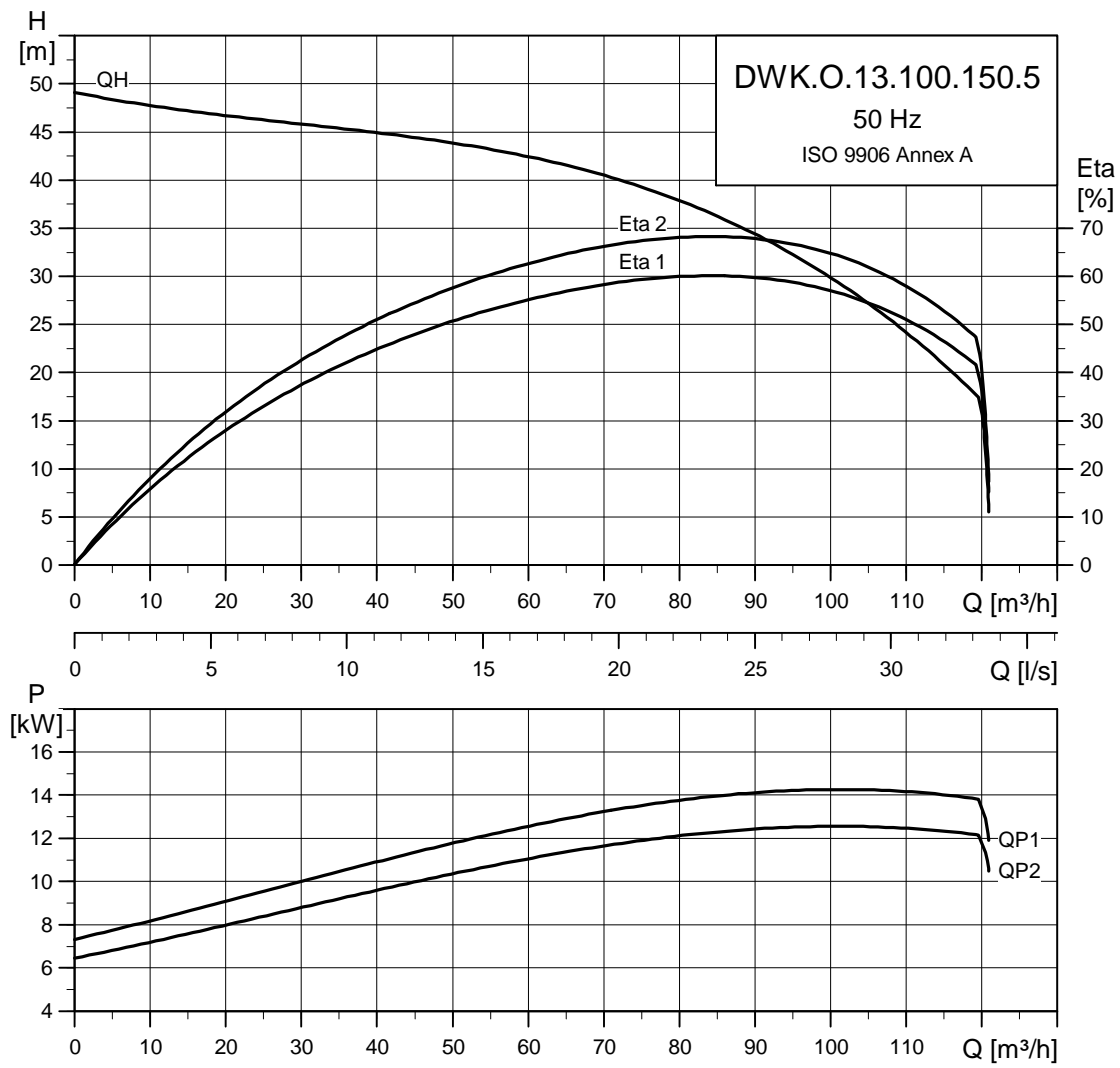
Electrical data

Pump type	Voltage [V]	P2 [kW]	min ⁻¹	Starting method	I _N [A]	η _{motor} [%]			Cos φ			Cable
						1/2	3/4	1/1	1/2	3/4	1/1	
DWK.O.13.100.110.5.0D	3 x 380-415 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 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 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 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 D	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 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 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 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

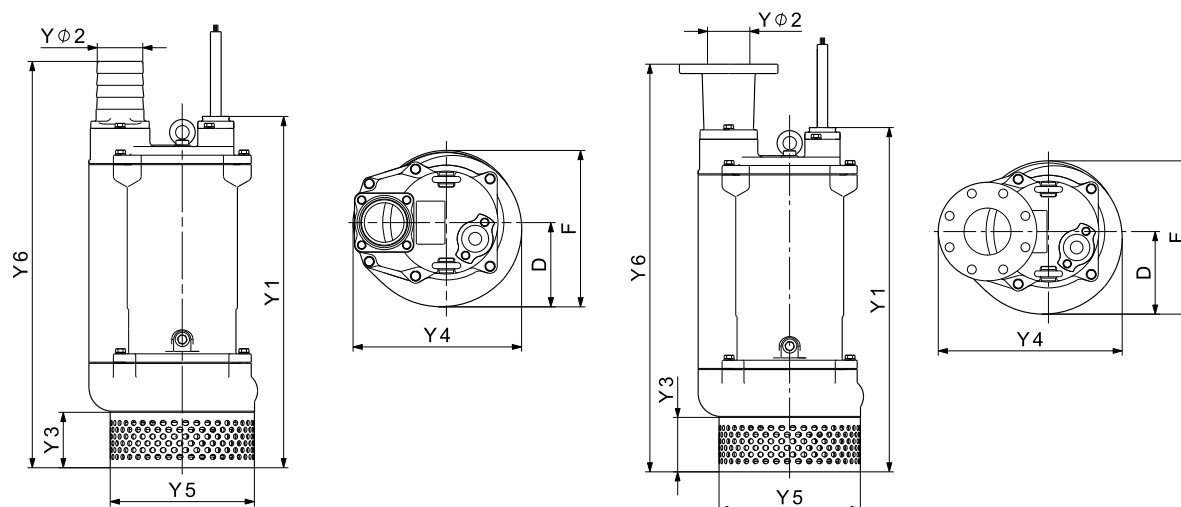
Pump type	Impeller type	Max. solids size [mm]	Max. number of starts per hour	Max. installation depth [m]	Enclosure class	Insulation class	Max. liquid temperature [°C]	pH
DWK.O.13.100.110.5	Semi-open	13	30	25	68	F	40	4-10

DWK.O.13.100.150.5



TM04 2929 1409

Dimensional sketches



TM04 6998 1610 - TM04 6999 1610

Dimensions

Pump type	Connection type	Y1	Y2	Y3	Y4	Y5	Y6	D	F	Weight [kg]
DWK.O.13.100.150	Hose	779	100	116	353	302	894	177	323	195
	Flange	779	100	116	393	302	914	177	323	195

With 10 m cable.

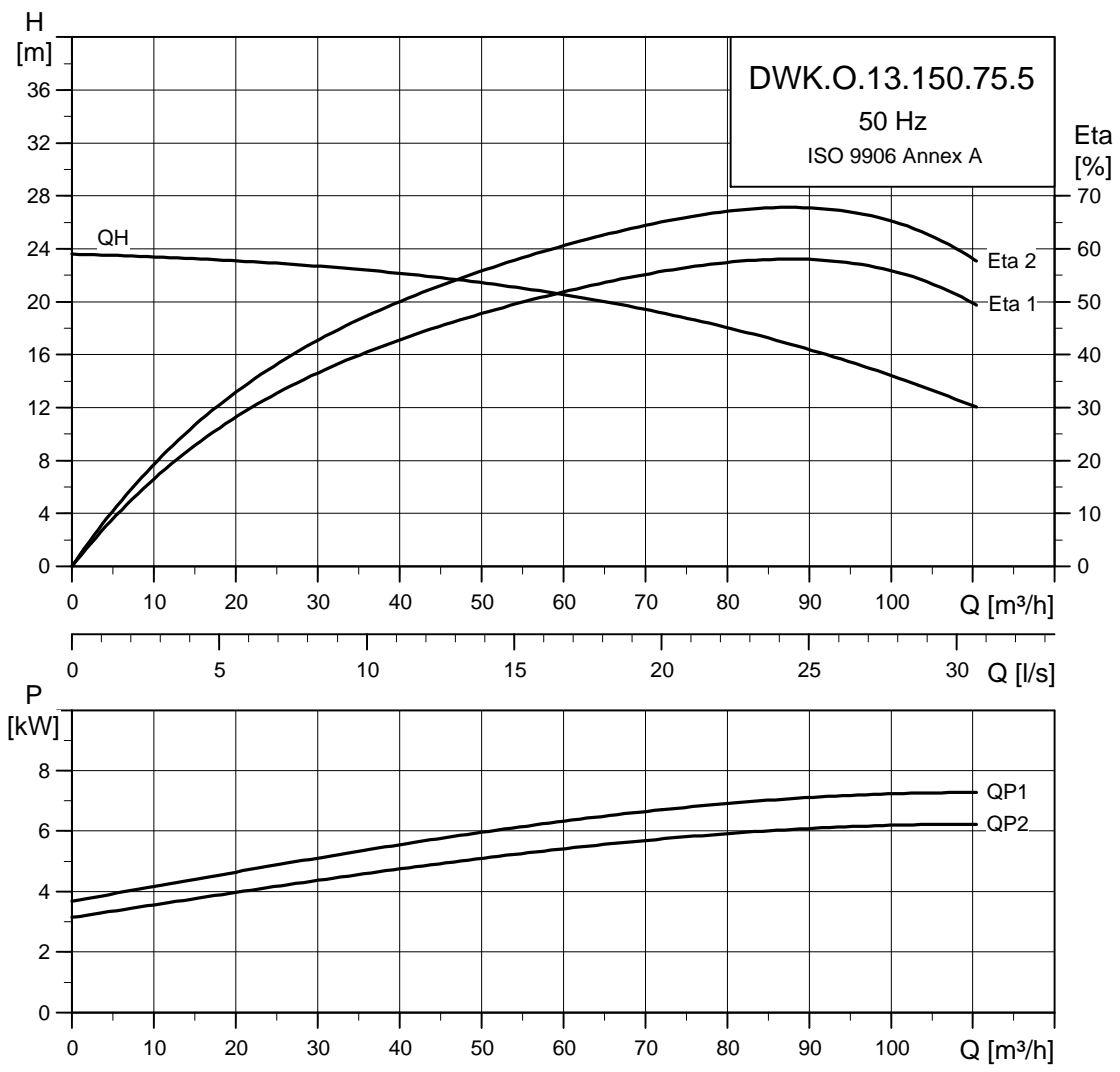
Electrical data

Pump type	Voltage [V]	P2 [kW]	min ⁻¹	Starting method	I _N [A]	η _{motor} [%]			Cos φ			Cable
						1/2	3/4	1/1	1/2	3/4	1/1	
DWK.O.13.100.150.5.0D	3 x 380-415 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 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 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
DWK.O.13.100.150.5.0E.R	3 x 220-240 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
DWK.O.13.100.150.5.1D	3 x 380-415 D	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 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
DWK.O.13.100.150.5.1D.R	3 x 380-415 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 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

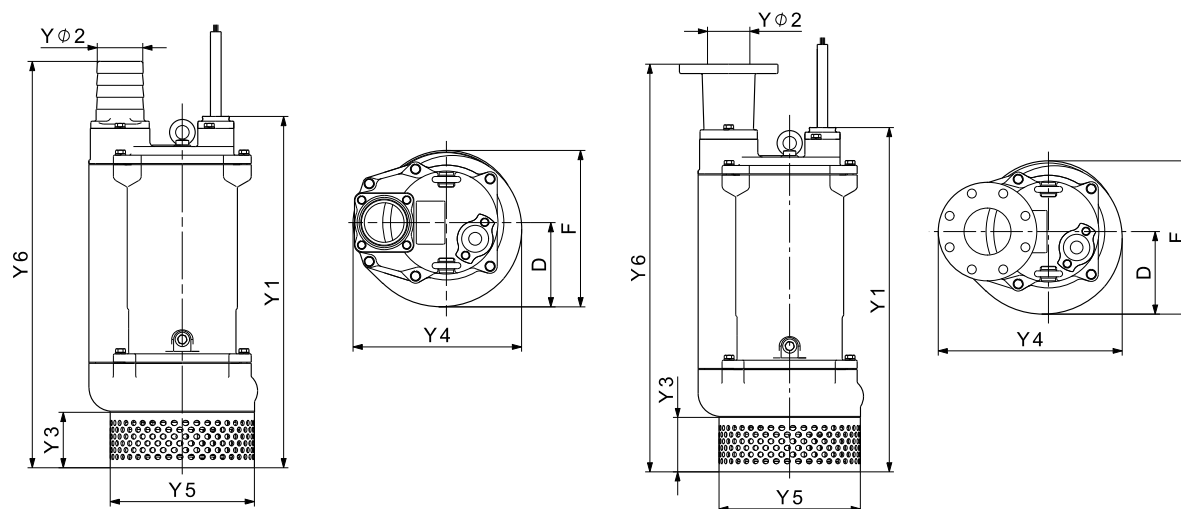
Pump type	Impeller type	Max. solids size [mm]	Max. number of starts per hour	Max. installation depth [m]	Enclosure class	Insulation class	Max. liquid temperature [°C]	pH
DWK.O.13.100.150	Semi-open	13	30	25	68	F	40	4-10

DWK.O.13.150.75.5



TM04 2930 0211

Dimensional sketches



TM04 6998 1610 - TM04 6999 1610

Dimensions

Pump type	Connection type	Y1	Y2	Y3	Y4	Y5	Y6	D	F	Weight [kg]
DWK.O.13.150.75	Hose	734	150	116	353	302	900	177	323	156
	Flange	734	150	116	429	302	861	177	323	156

With 10 m cable.

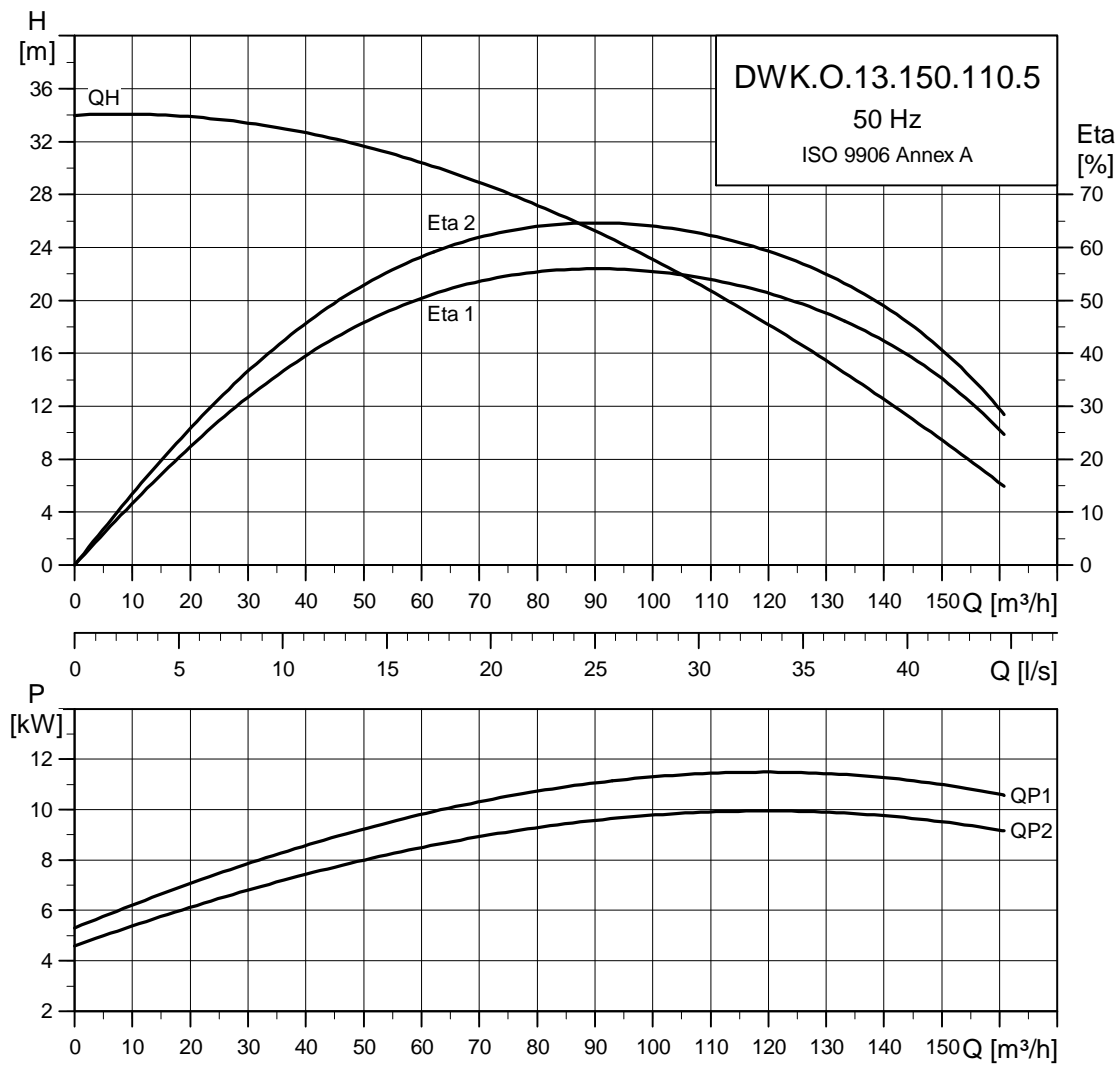
Electrical data

Pump type	Voltage [V]	P2 [kW]	min ⁻¹	Starting method	I _N [A]	η _{motor} [%]			Cos φ			Cable
						1/2	3/4	1/1	1/2	3/4	1/1	
DWK.O.13.150.75.5.0D	3 x 380-415 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 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 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 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 D	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 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 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 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

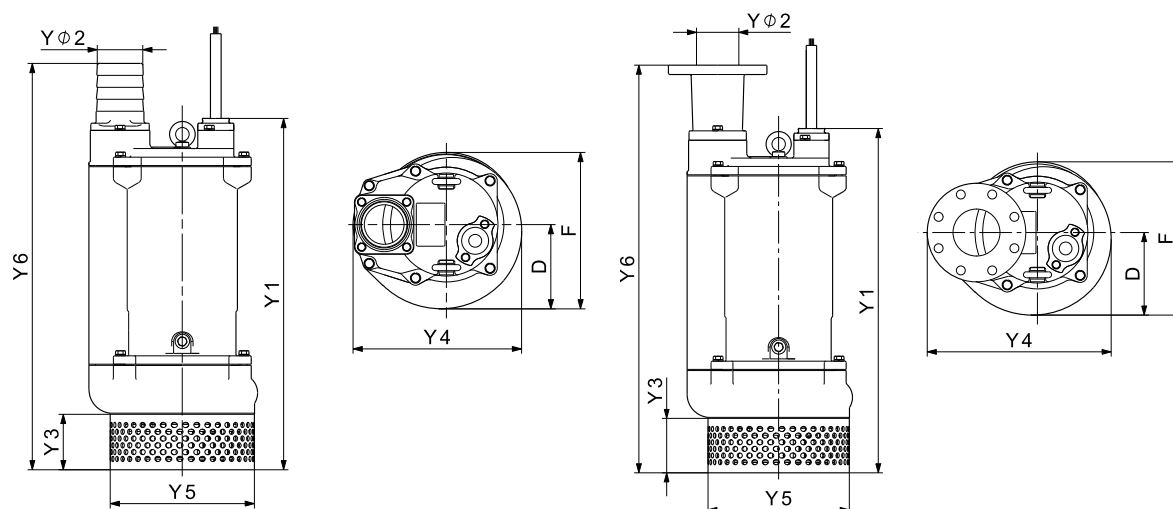
Pump type	Impeller type	Max. solids size [mm]	Max. number of starts per hour	Max. installation depth [m]	Enclosure class	Insulation class	Max. liquid temperature [°C]	pH
DWK.O.13.150.75	Semi-open	13	30	25	68	F	40	4-10

DWK.O.13.150.110.5



TM04 2931 1409

Dimensional sketches



TM04 6998 1610 - TM04 6999 1610

Dimensions

Pump type	Connection type	Y1	Y2	Y3	Y4	Y5	Y6	D	F	Weight [kg]
DWK.O.13.150.110	Hose	779	150	116	409	302	945	177	323	190
	Flange	779	150	116	471	302	906	177	323	190

With 10 m cable.

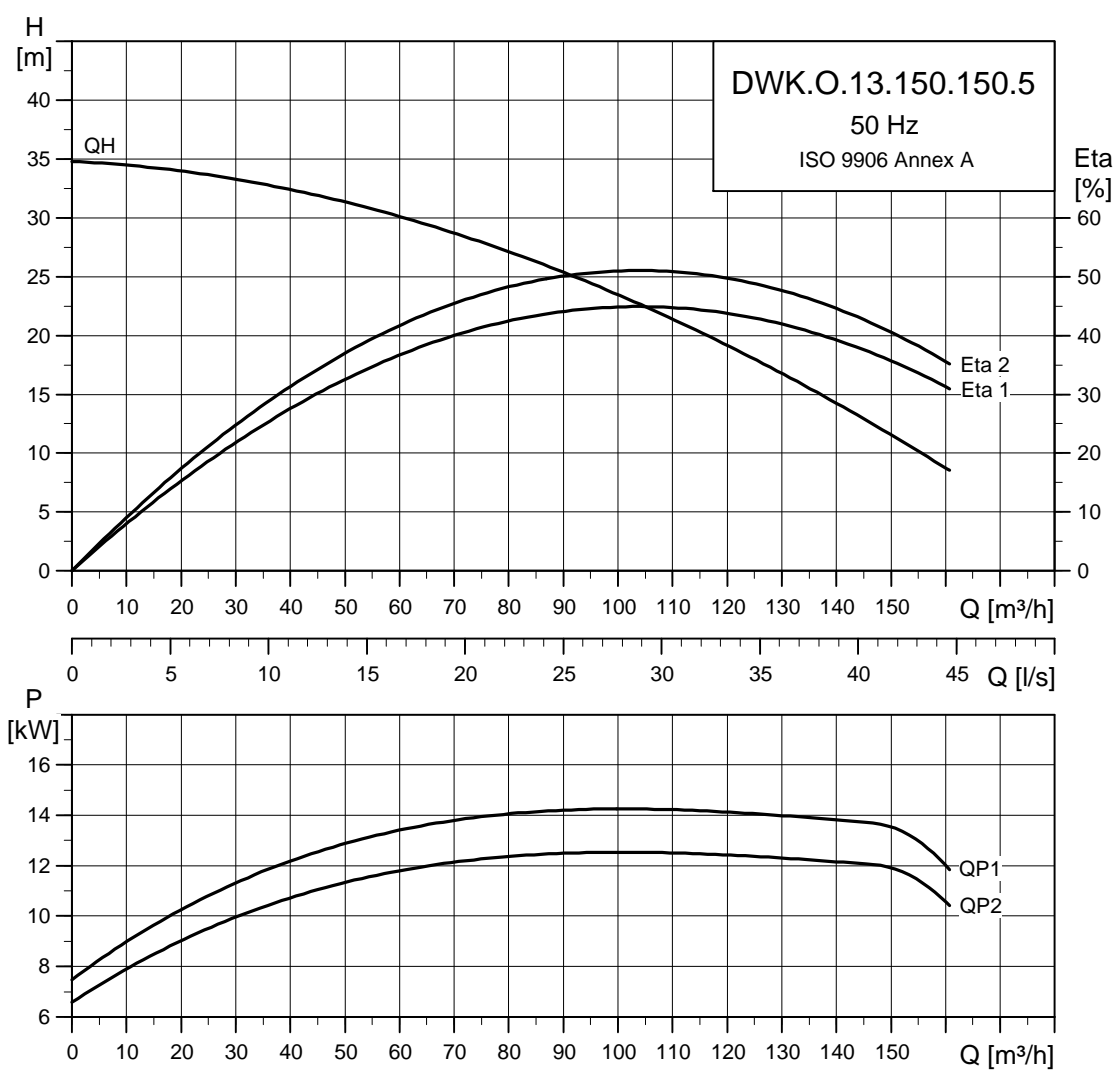
Electrical data

Pump type	Voltage [V]	P2 [kW]	min ⁻¹	Starting method	I _N [A]	η _{motor} [%]			Cos φ			Cable
						1/2	3/4	1/1	1/2	3/4	1/1	
DWK.O.13.150.110.5.0D	3 x 380-415 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 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 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 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 D	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 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 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 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

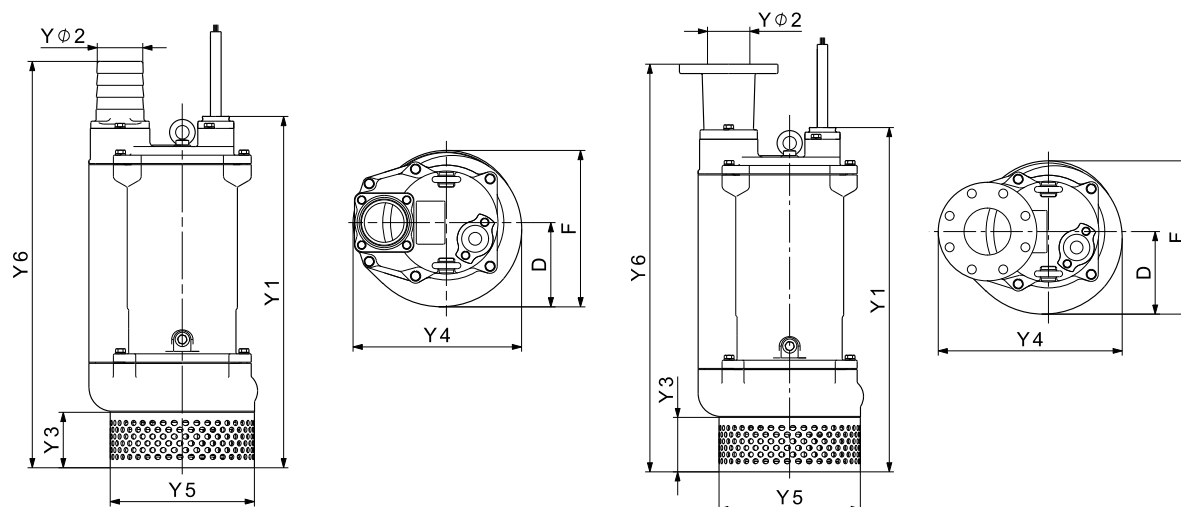
Pump type	Impeller type	Max. solids size [mm]	Max. number of starts per hour	Max. installation depth [m]	Enclosure class	Insulation class	Max. liquid temperature [°C]	pH
DWK.O.13.150.110	Semi-open	13	30	25	68	F	40	4-10

DWK.O.13.150.150.5



TM04 2832 0211

Dimensional sketches



TM04 6998 1610 - TM04 6999 1610

Dimensions

Pump type	Connection type	Y1	Y2	Y3	Y4	Y5	Y6	D	F	Weight [kg]
DWK.O.13.150.150	Hose	779	100	116	409	302	945	177	323	195
	Flange	779	150	116	471	302	906	177	323	195

With 10 m cable.

Electrical data

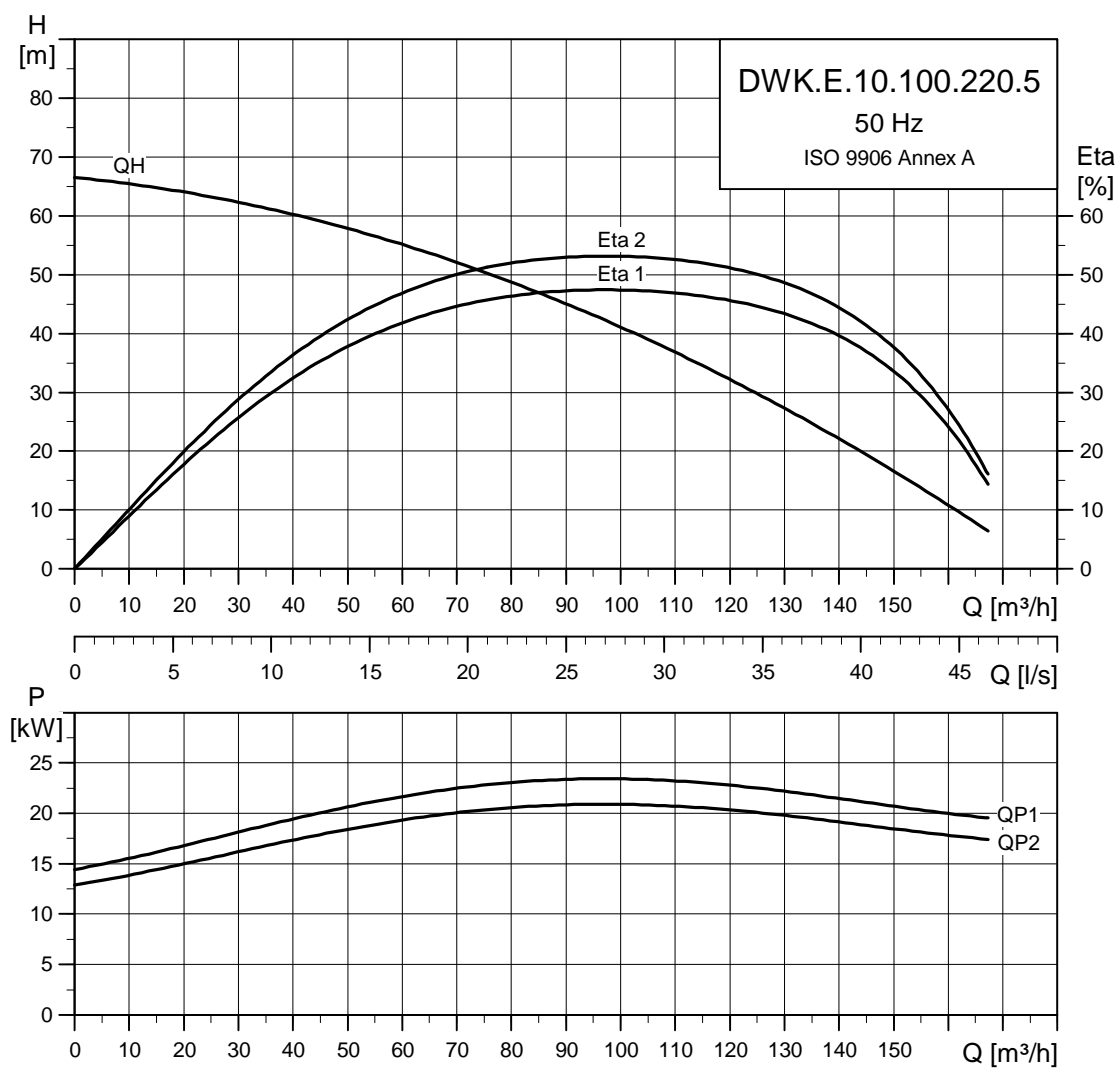
Pump type	Voltage [V]	P2 [kW]	min ⁻¹	Starting method	I _N [A]	η _{motor} [%]			Cos φ			Cable
						1/2	3/4	1/1	1/2	3/4	1/1	
DWK.O.13.150.150.5.0D	3 x 380-415 Y	15	2850	DOL	31	85.5	87.4	88	0.729	0.804	0.835	4 x 6.0 mm ² + 4 x 1 mm ²
DWK.O.13.150.150.5.0D.R	3 x 380-415 Y	15	2850	DOL	31	85.5	87.4	88	0.729	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 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
DWK.O.13.150.150.5.0E.R	3 x 220-240 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
DWK.O.13.150.150.5.1D	3 x 380-415 D	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 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
DWK.O.13.150.150.5.1D.R	3 x 380-415 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 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
DWK.O.13.150.150	Semi-open	13	30	25	68	F	40	4-10

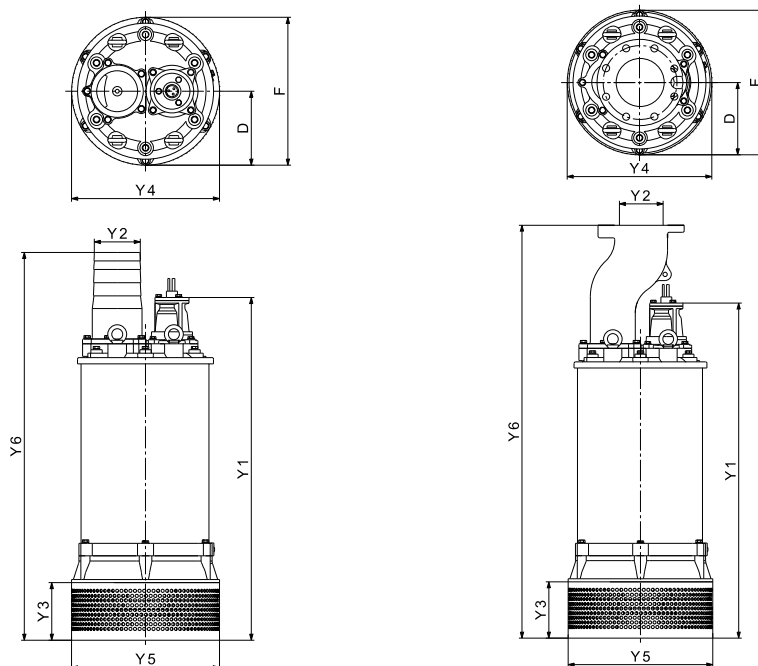
DWK.E

DWK.E.10.100.220.5



TM04 2895 1409

Dimensional sketches



TM04 41-48 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	1117	235	470	408
DWK.E.10.100.220.5.1D.R										
DWK.E.10.100.220.5.1E	Flange	1099	100	183	470	470	1342	235	470	420
DWK.E.10.100.220.5.1D										

With 10 m cable.

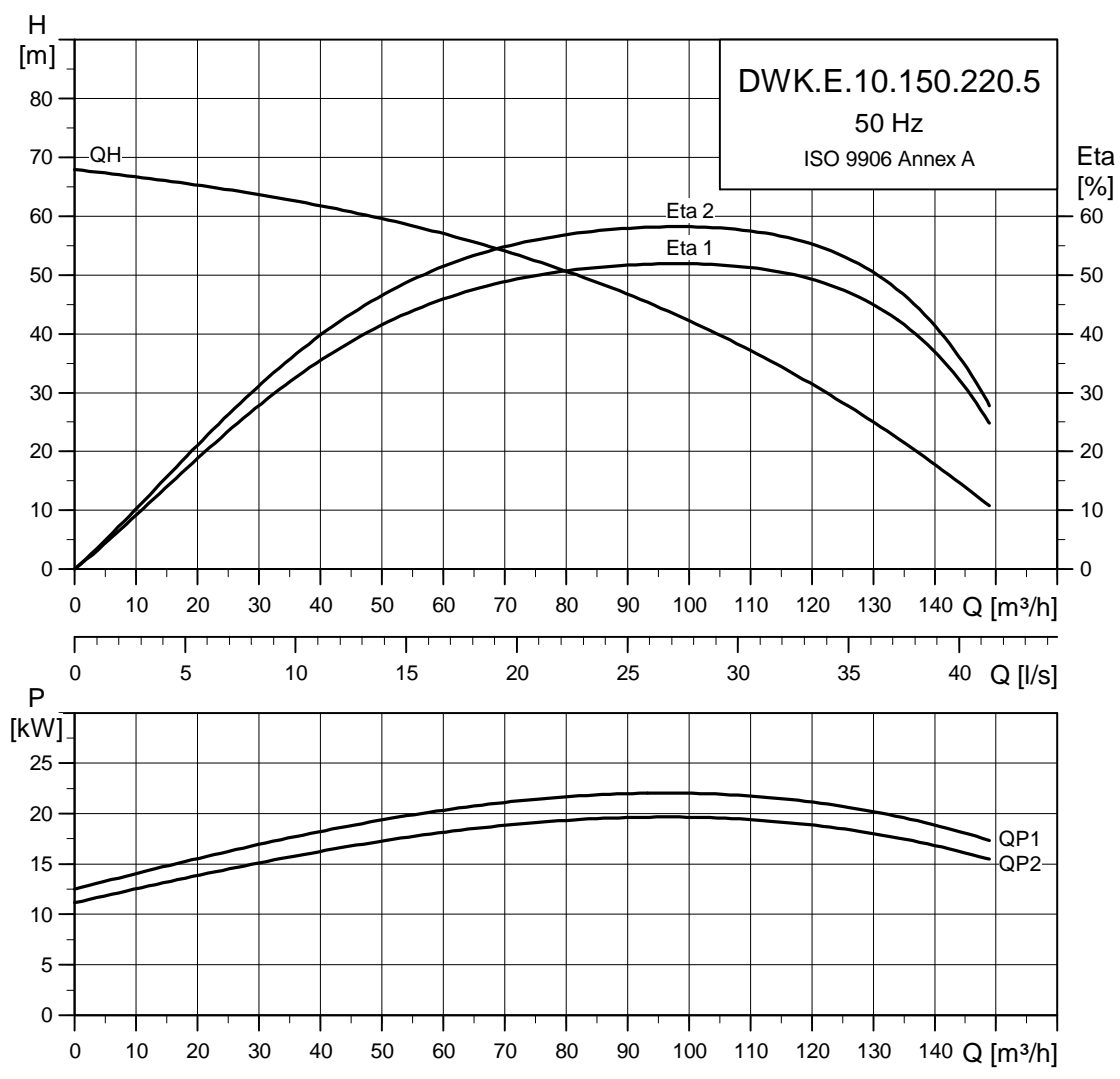
Electrical data

Pump type	Voltage [V]	P2 [kW]	min ⁻¹	Starting method	I _N [A]	η _{motor} [%]			Cos φ			Cable
						1/2	3/4	1/1	1/2	3/4	1/1	
DWK.E.10.100.220.5.1D	3 x 380-415 Y	22	2850	Y/D	43	86.7	88.6	89.2	0.747	0.824	0.855	7 x 10.0 mm ² + 6 x 1.5 mm ²
DWK.E.10.100.220.5.1D.R	3 x 380-415 Y	22	2850	Y/D	43	86.7	88.6	89.2	0.747	0.824	0.855	7 x 10.0 mm ² + 6 x 1.5 mm ²
DWK.E.10.100.220.5.1E	3 x 220-240 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 1.5 mm ²
DWK.E.10.100.220.5.1E.R	3 x 220-240 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 1.5 mm ²

Pump data

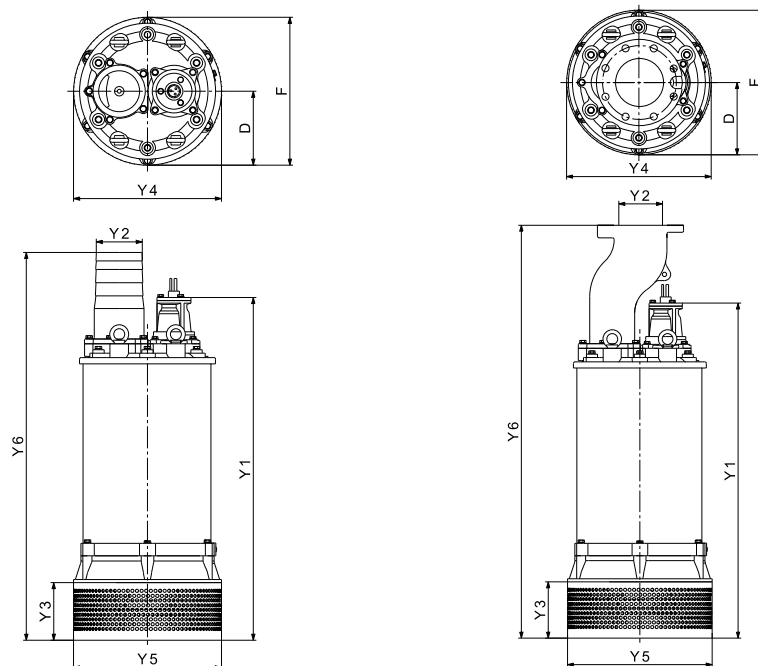
Pump type	Impeller type	Max. solids size [mm]	Max. number of starts per hour	Max. installation depth [m]	Enclosure class	Insulation class	Max. liquid temperature [°C]	pH
DWK.E.10.100.220	Enclosed	10	18	25	68	F	40	4-10

DWK.E.10.150.220.5



TM04 2896 1409

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	1232	235	470	417
DWK.E.10.150.220.5.1D.R										
DWK.E.10.150.220.5.1E	Flange	1099	150	183	470	470	1342	235	470	427
DWK.E.10.150.220.5.1D										

With 10 m cable.

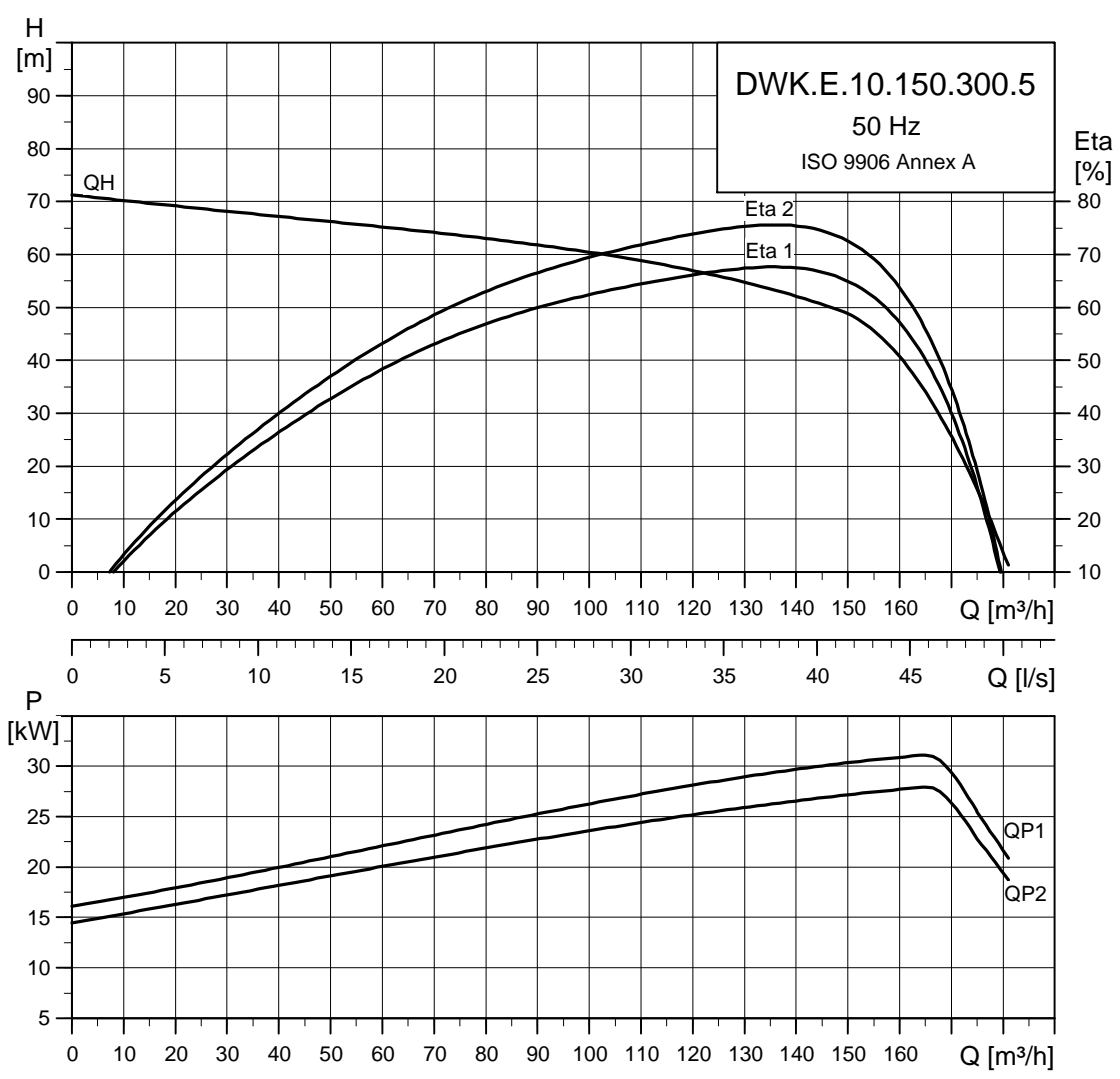
Electrical data

Pump type	Voltage [V]	P2 [kW]	min ⁻¹	Starting method	I _N [A]	η _{motor} [%]			Cos φ			Cable
						1/2	3/4	1/1	1/2	3/4	1/1	
DWK.E.10.150.220.5.1D	3 x 380-415 Y	22	2850	Y/D	43	86.7	88.6	89.2	0.747	0.824	0.855	7 x 10.0 mm ² + 6 x 1.5 mm ²
DWK.E.10.150.220.5.1D.R	3 x 380-415 Y	22	2850	Y/D	43	86.7	88.6	89.2	0.747	0.824	0.855	7 x 10.0 mm ² + 6 x 1.5 mm ²
DWK.E.10.150.220.5.1E	3 x 220-240 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 1.5 mm ²
DWK.E.10.150.220.5.1E.R	3 x 220-240 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 1.5 mm ²

Pump data

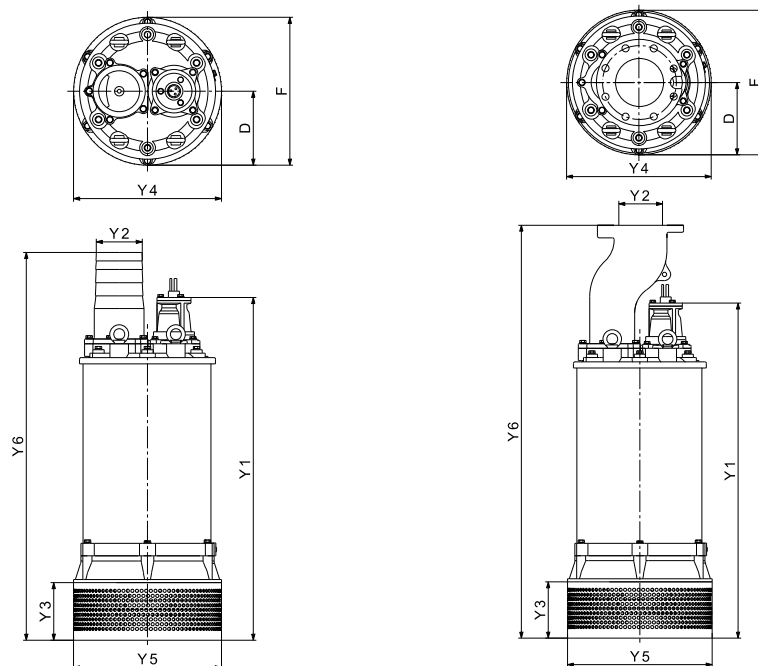
Pump type	Impeller type	Max. solids size [mm]	Max. number of starts per hour	Max. installation depth [m]	Enclosure class	Insulation class	Max. liquid temperature [°C]	pH
DWK.E.10.150.220	Enclosed	10	18	25	68	F	40	4-10

DWK.E.10.150.300.5



TM04 2897 0211

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.10.150.300.5.1E.R DWK.E.10.150.300.5.1D.R	Hose	1099	150	183	470	470	1232	235	470	442
DWK.E.10.150.300.5.1E DWK.E.10.150.300.5.1D	Flange	1099	150	183	470	470	1342	235	470	452

With 10 m cable.

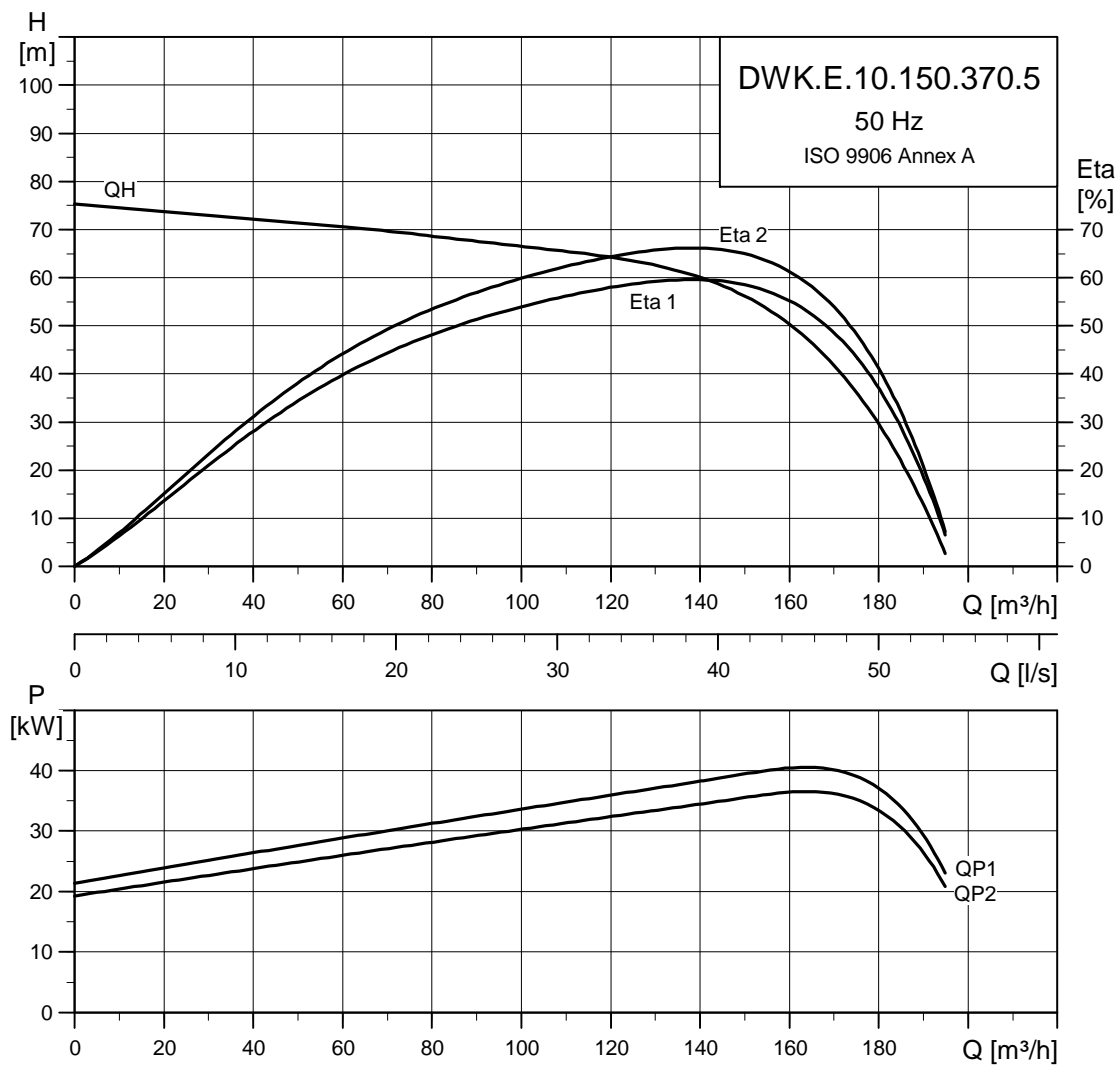
Electrical data

Pump type	Voltage [V]	P2 [kW]	min ⁻¹	Starting method	I _N [A]	η _{motor} [%]			Cos φ			Cable
						1/2	3/4	1/1	1/2	3/4	1/1	
DWK.E.10.150.300.5.1D	3 x 380-415 Y	30	2850	Y/D	59	87.2	89.1	89.7	0.751	0.828	0.86	7 x 16.0 mm ² + 6 x 1.5 mm ²
DWK.E.10.150.300.5.1D.R	3 x 380-415 Y	30	2850	Y/D	59	87.2	89.1	89.7	0.751	0.828	0.86	7 x 16.0 mm ² + 6 x 1.5 mm ²
DWK.E.10.150.300.5.1E	3 x 220-240 D	30	2850	Y/D	102	87.2	89.1	89.7	0.751	0.828	0.86	7 x 25.0 mm ² + 6 x 1.5 mm ²
DWK.E.10.150.300.5.1E.R	3 x 220-240 D	30	2850	Y/D	102	87.2	89.1	89.7	0.751	0.828	0.86	7 x 25.0 mm ² + 6 x 1.5 mm ²

Pump data

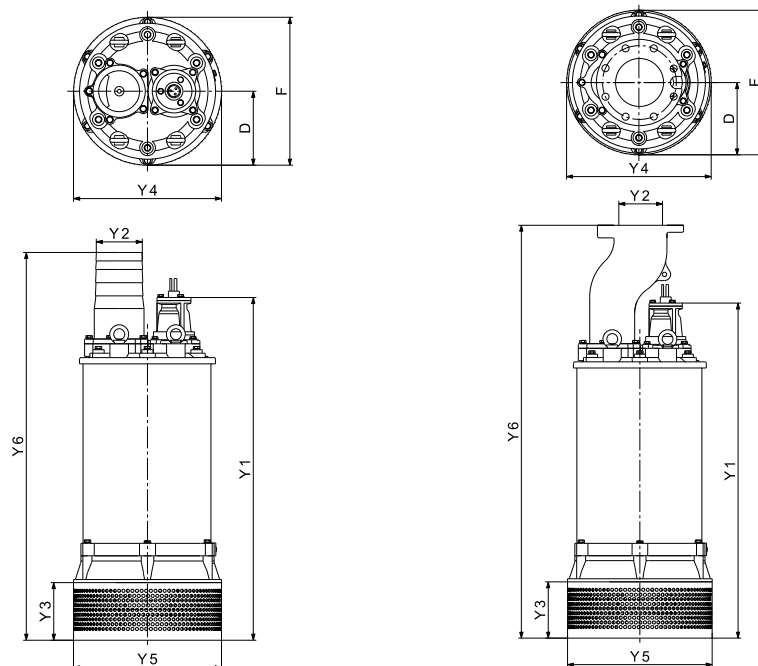
Pump type	Impeller type	Max. solids size [mm]	Max. number of starts per hour	Max. installation depth [m]	Enclosure class	Insulation class	Max. liquid temperature [°C]	pH
DWK.E.10.150.300	Enclosed	10	18	25	68	F	40	4-10

DWK.E.10.150.370.5



TM04 2898 1409

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.10.150.370.5.1E.R	Hose	1318	150	220	612	557	1411	306	612	837
DWK.E.10.150.370.5.1D.R										
DWK.E.10.150.370.5.1E	Flange	1318	150	220	612	557	1561	306	612	839
DWK.E.10.150.370.5.1D										

With 10 m cable.

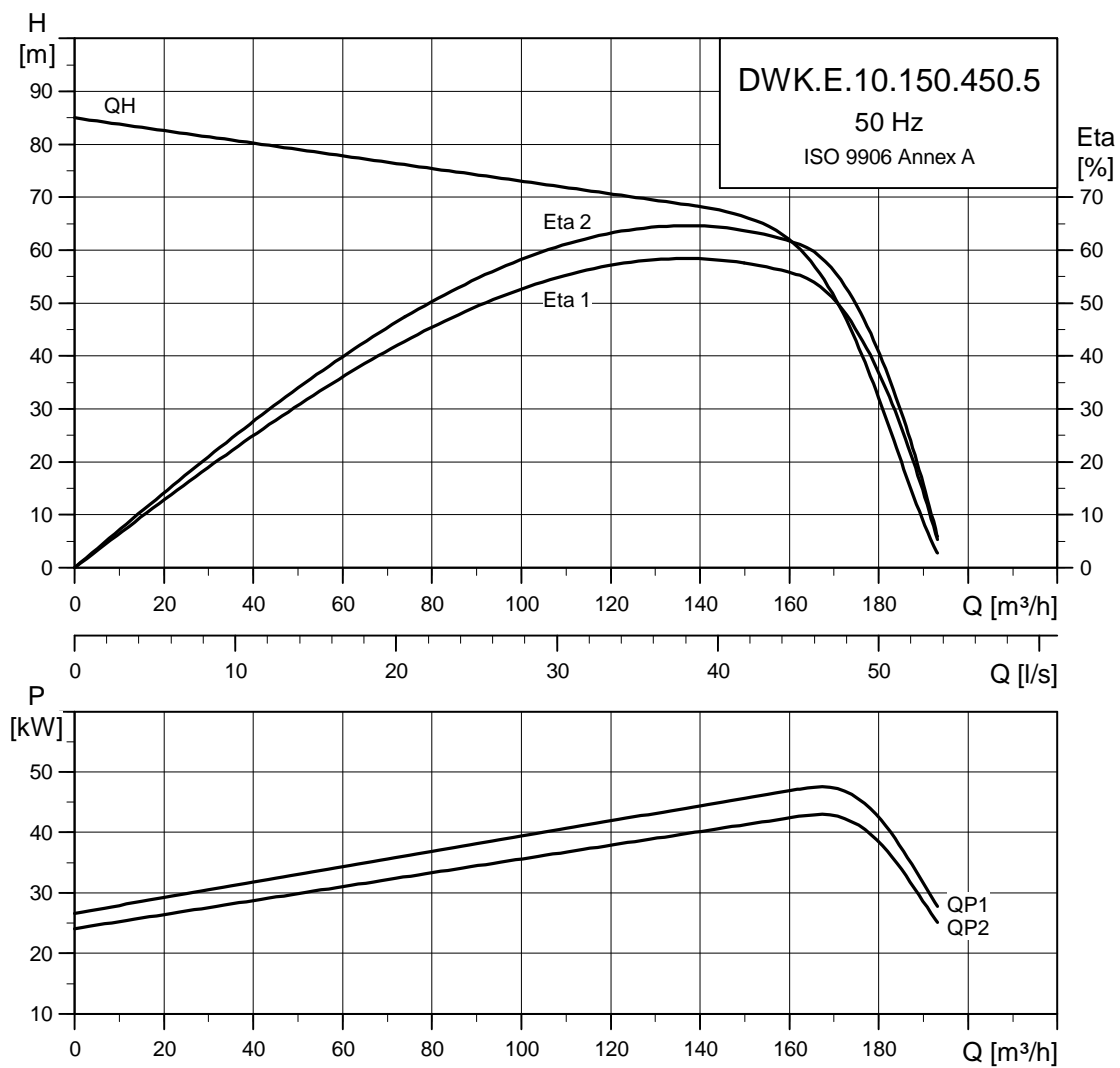
Electrical data

Pump type	Voltage [V]	P2 [kW]	min ⁻¹	Starting method	I _N [A]	η _{motor} [%]			Cos φ			Cable
						1/2	3/4	1/1	1/2	3/4	1/1	
DWK.E.10.150.370.5.1D	3 x 380-415 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 1.5 mm ²
DWK.E.10.150.370.5.1D.R	3 x 380-415 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 1.5 mm ²
DWK.E.10.150.370.5.1E	3 x 220-240 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 1.5 mm ²
DWK.E.10.150.370.5.1E.R	3 x 220-240 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 1.5 mm ²

Pump data

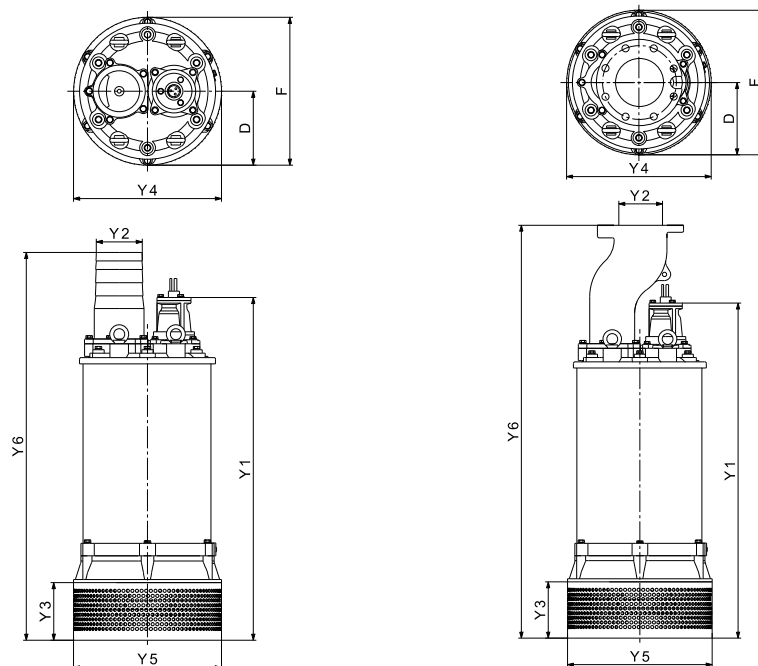
Pump type	Impeller type	Max. solids size [mm]	Max. number of starts per hour	Max. installation depth [m]	Enclosure class	Insulation class	Max. liquid temperature [°C]	pH
DWK.E.10.150.370	Enclosed	10	18	25	68	F	40	4-10

DWK.E.10.150.450.5



TM04 2899 1409

Dimensional sketches



TM04 41-48 0909 - TM04 4150 0909

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	150	220	612	557	1411	306	612	846
DWK.E.10.150.450.5.1D.R										
DWK.E.10.150.450.5.1E	Flange	1318	150	220	612	557	1561	306	612	858
DWK.E.10.150.450.5.1D										

With 10 m cable.

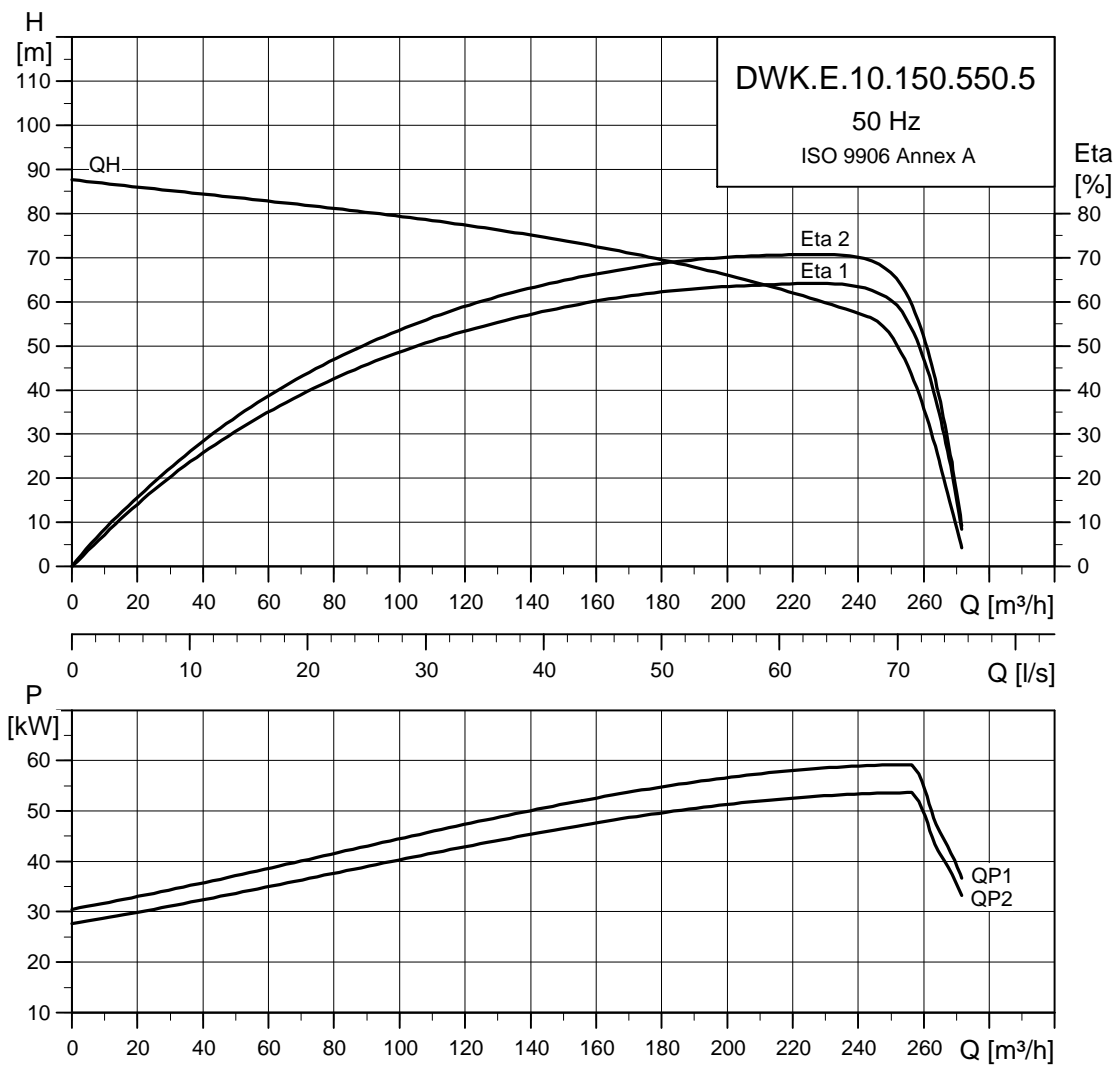
Electrical data

Pump type	Voltage [V]	P2 [kW]	min ⁻¹	Starting method	I _N [A]	η _{motor} [%]			Cos φ			Cable
						1/2	3/4	1/1	1/2	3/4	1/1	
DWK.E.10.150.450.5.1D	3 x 380-415 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 1.5 mm ²
DWK.E.10.150.450.5.1D.R	3 x 380-415 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 1.5 mm ²
DWK.E.10.150.450.5.1E	3 x 220-240 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 1.5 mm ²
DWK.E.10.150.450.5.1E.R	3 x 220-240 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 1.5 mm ²

Pump data

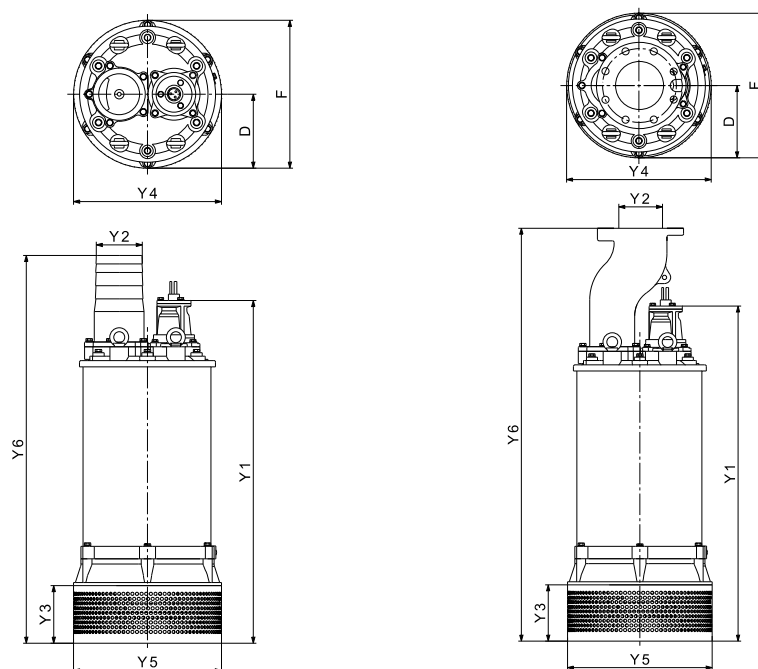
Pump type	Impeller type	Max. solids size [mm]	Max. number of starts per hour	Max. installation depth [m]	Enclosure class	Insulation class	Max. liquid temperature [°C]	pH
DWK.E.10.150.450	Enclosed	10	18	25	68	F	40	4-10

DWK.E.10.150.550.5



TM04 2900 0211

Dimensional sketches



TM04 41-48 0909 - TM04 4150 0909

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	150	220	612	557	1511	306	612	909
DWK.E.10.150.550.5.1D.R										
DWK.E.10.150.550.5.1E	Flange	1418	150	220	612	557	1661	306	612	921
DWK.E.10.150.550.5.1D										

With 10 m cable.

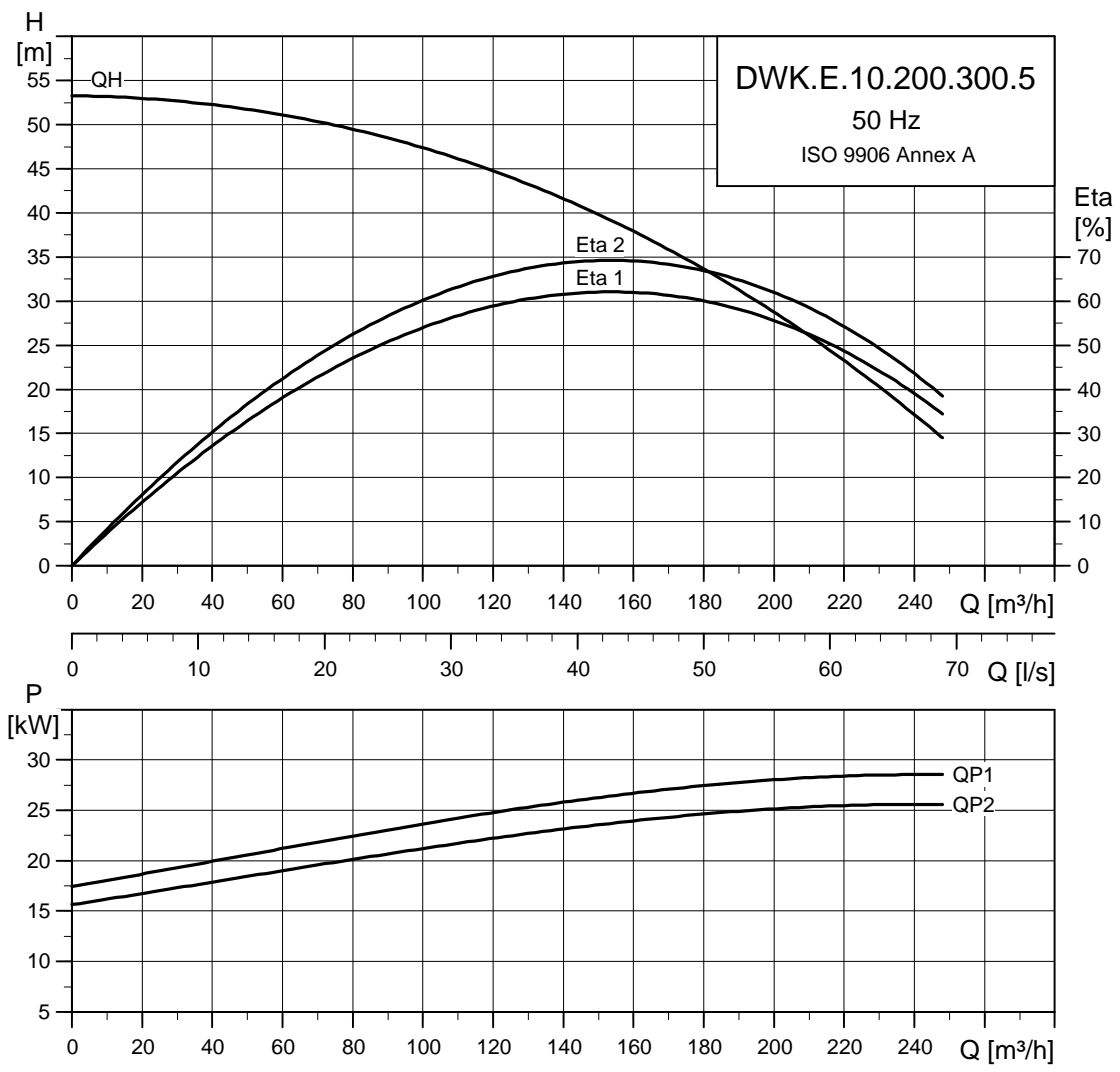
Electrical data

Pump type	Voltage [V]	P2 [kW]	min ⁻¹	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 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 1.5 mm ²		
DWK.E.10.150.550.5.1D.R	3 x 380-415 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 1.5 mm ²		
DWK.E.10.150.550.5.1E	3 x 220-240 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 1.5 mm ²		
DWK.E.10.150.550.5.1E.R	3 x 220-240 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 1.5 mm ²		

Pump data

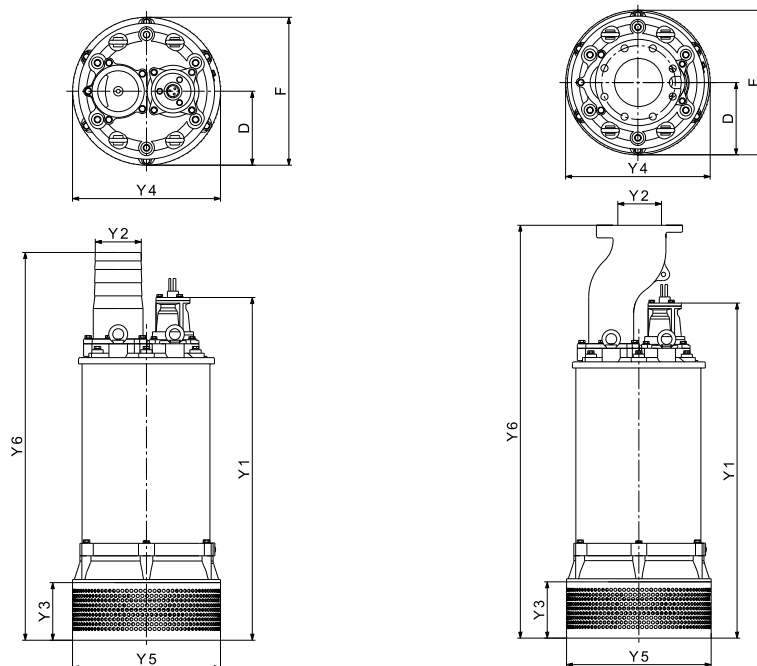
Pump type	Impeller type	Max. solids size [mm]	Max. number of starts per hour	Max. installation depth [m]	Enclosure class	Insulation class	Max. liquid temperature [°C]	pH
DWK.E.10.150.550	Enclosed	10	18	25	68	F	40	4-10

DWK.E.10.200.300.5



TM04 2901 0211

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.10.200.300.5.1E.R DWK.E.10.200.300.5.1D.R	Hose	1099	200	183	470	470	1192	235	470	444
DWK.E.10.200.300.5.1E DWK.E.10.200.300.5.1D	Flange	1099	200	183	470	470	1342	235	470	462

With 10 m cable.

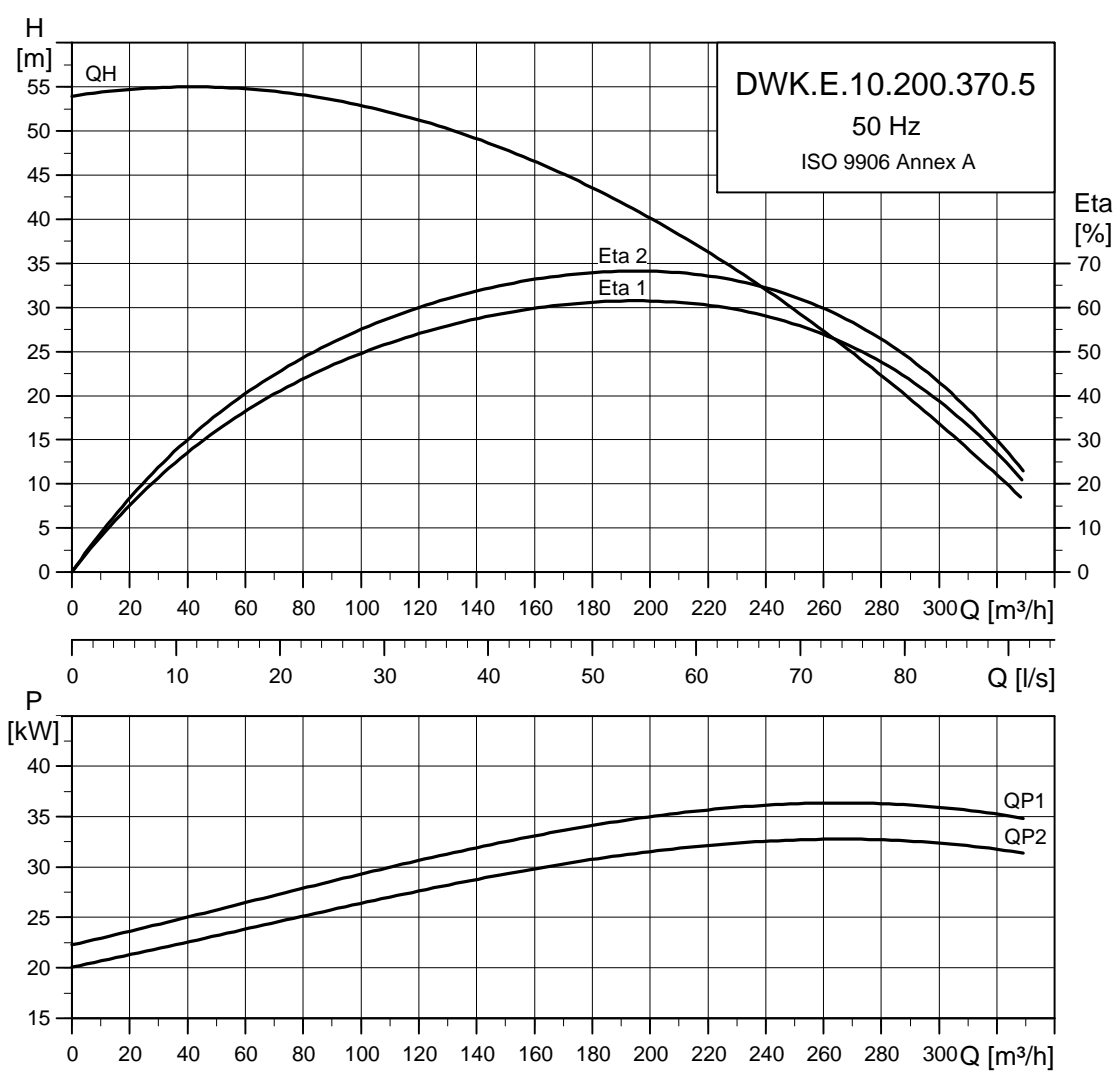
Electrical data

Pump type	Voltage [V]	P2 [kW]	min ⁻¹	Starting method	I _N [A]	η _{motor} [%]			Cos φ			Cable
						1/2	3/4	1/1	1/2	3/4	1/1	
DWK.E.10.200.300.5.1D	3 x 380-415 Y	30	2850	Y/D	59	87.2	89.1	89.7	0.751	0.828	0.86	7 x 16.0 mm ² + 6 x 1.5 mm ²
DWK.E.10.200.300.5.1D.R	3 x 380-415 Y	30	2850	Y/D	59	87.2	89.1	89.7	0.751	0.828	0.86	7 x 16.0 mm ² + 6 x 1.5 mm ²
DWK.E.10.200.300.5.1E	3 x 220-240 D	30	2850	Y/D	102	87.2	89.1	89.7	0.751	0.828	0.86	7 x 25.0 mm ² + 6 x 1.5 mm ²
DWK.E.10.200.300.5.1E.R	3 x 220-240 D	30	2850	Y/D	102	87.2	89.1	89.7	0.751	0.828	0.86	7 x 25.0 mm ² + 6 x 1.5 mm ²

Pump data

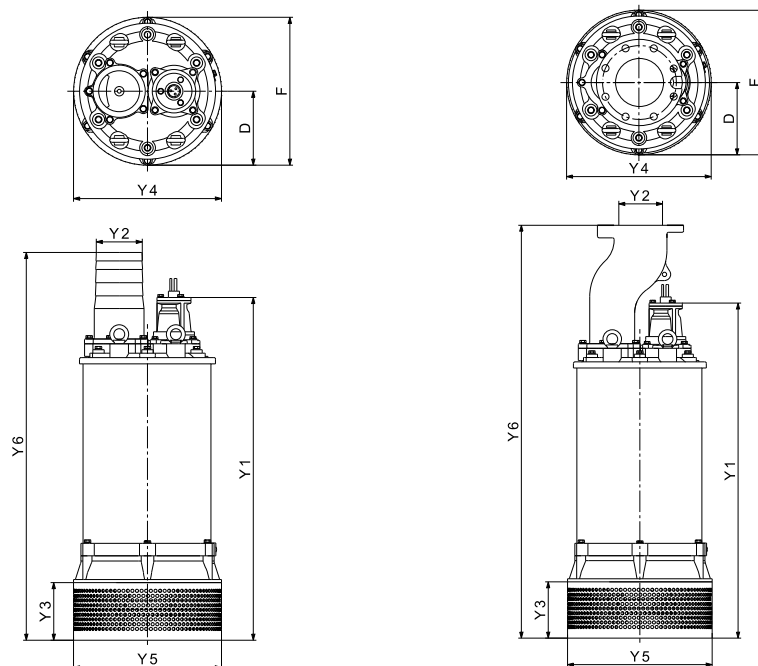
Pump type	Impeller type	Max. solids size [mm]	Max. number of starts per hour	Max. installation depth [m]	Enclosure class	Insulation class	Max. liquid temperature [°C]	pH
DWK.E.10.200.300	Enclosed	10	18	25	68	F	40	4-10

DWK.E.10.200.370.5



TM04 2902 0211

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	1411	306	612	839
DWK.E.10.200.370.5.1D.R										
DWK.E.10.200.370.5.1E	Flange	1318	200	220	612	557	1561	306	612	841
DWK.E.10.200.370.5.1D										

With 10 m cable.

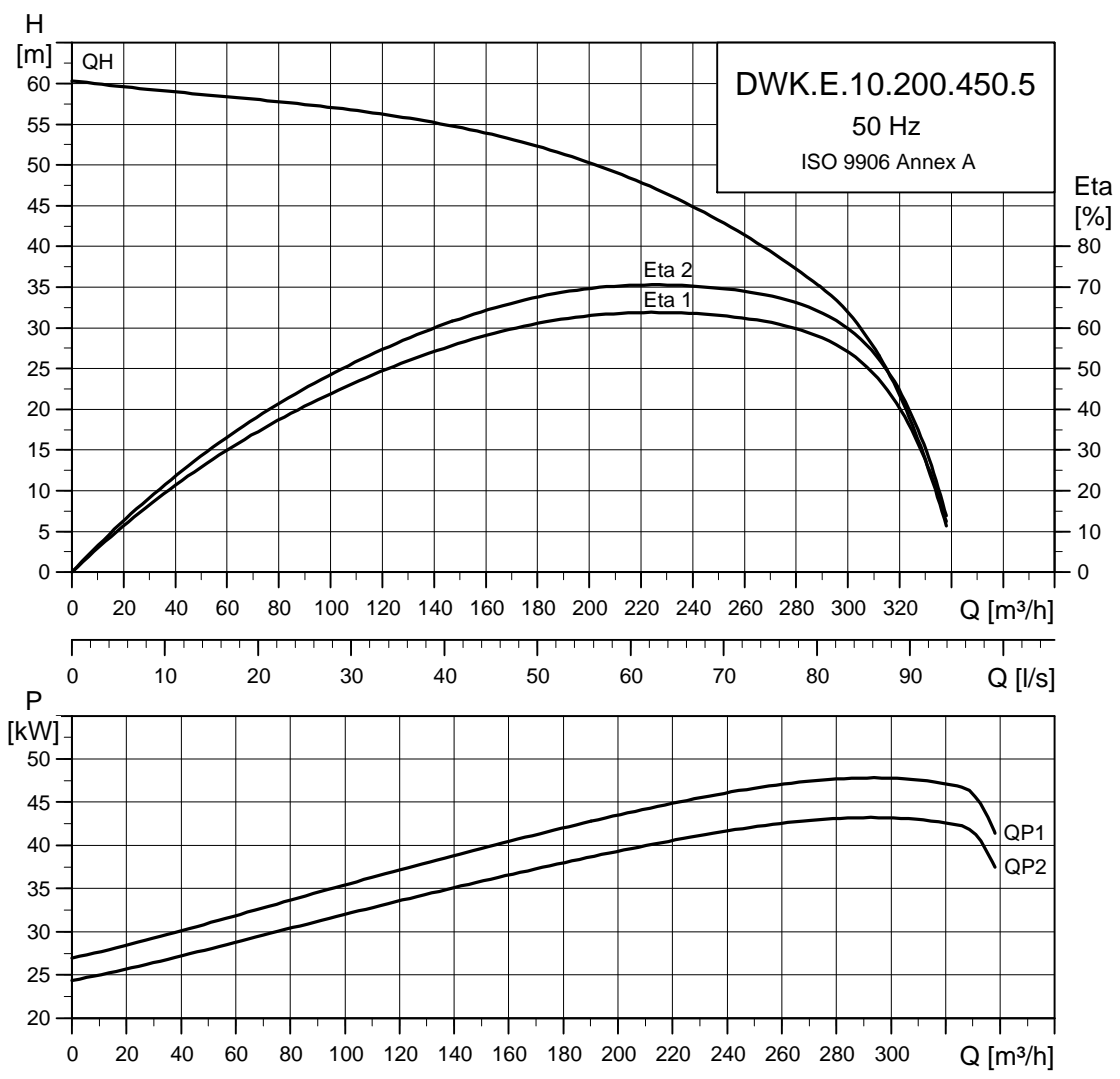
Electrical data

Pump type	Voltage [V]	P2 [kW]	min ⁻¹	Starting method	I _N [A]	η _{motor} [%]			Cos φ			Cable
						1/2	3/4	1/1	1/2	3/4	1/1	
DWK.E.10.200.370.5.1D	3 x 380-415 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 1.5 mm ²
DWK.E.10.200.370.5.1D.R	3 x 380-415 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 1.5 mm ²
DWK.E.10.200.370.5.1E	3 x 220-240 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 1.5 mm ²
DWK.E.10.200.370.5.1E.R	3 x 220-240 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 1.5 mm ²

Pump data

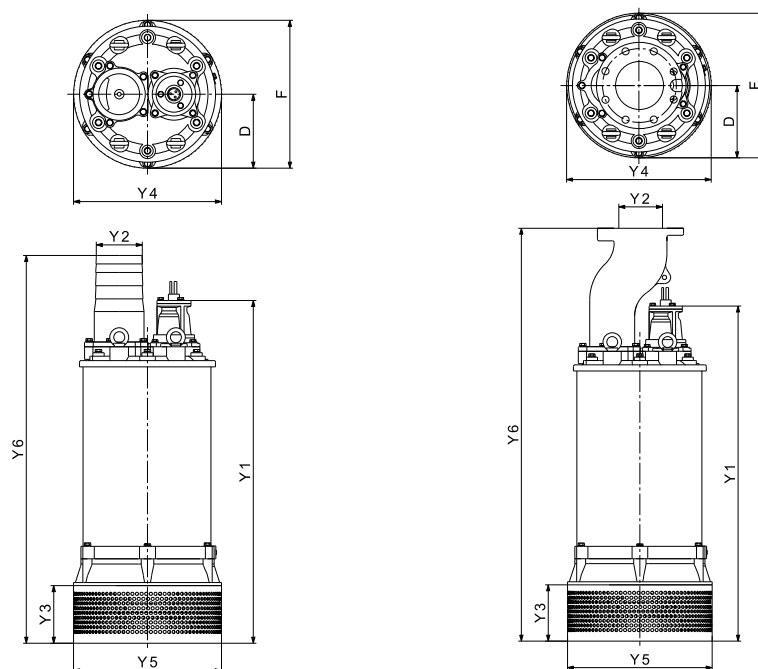
Pump type	Impeller type	Max. solids size [mm]	Max. number of starts per hour	Max. installation depth [m]	Enclosure class	Insulation class	Max. liquid temperature [°C]	pH
DWK.E.10.200.370	Enclosed	10	18	25	68	F	40	4-10

DWK.E.10.200.450.5



TM04 2903 0211

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	1411	306	612	848
DWK.E.10.200.450.5.1D.R										
DWK.E.10.200.450.5.1E	Flange	1318	200	220	612	557	1561	306	612	860
DWK.E.10.200.450.5.1D										

With 10 m cable.

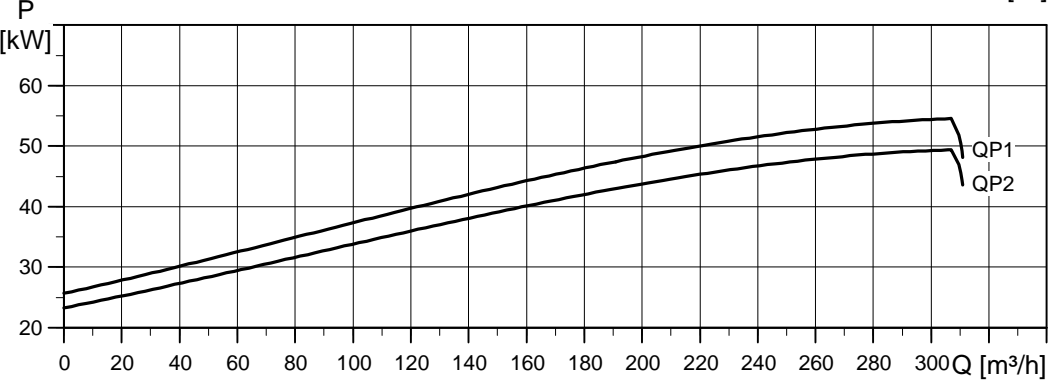
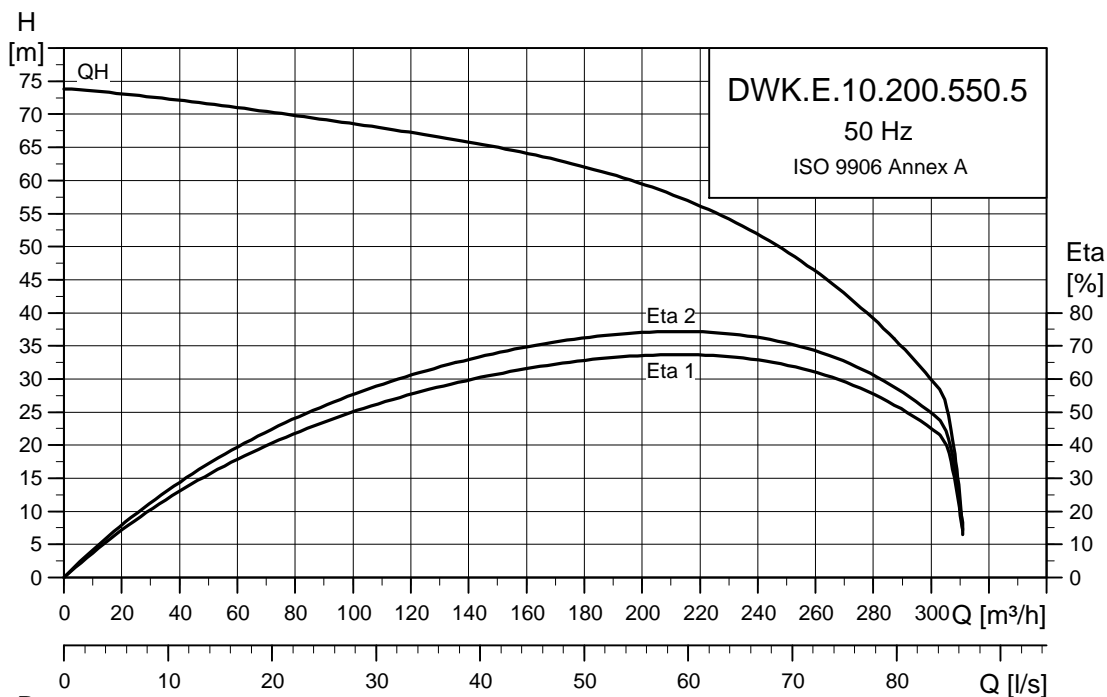
Electrical data

Pump type	Voltage [V]	P2 [kW]	min ⁻¹	Starting method	I _N [A]			η _{motor} [%]			Cos φ			Cable
					1/2	3/4	1/1	1/2	3/4	1/1	1/2	3/4	1/1	
DWK.E.10.200.450.5.1D	3 x 380-415 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 1.5 mm ²		
DWK.E.10.200.450.5.1D.R	3 x 380-415 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 1.5 mm ²		
DWK.E.10.200.450.5.1E	3 x 220-240 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 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

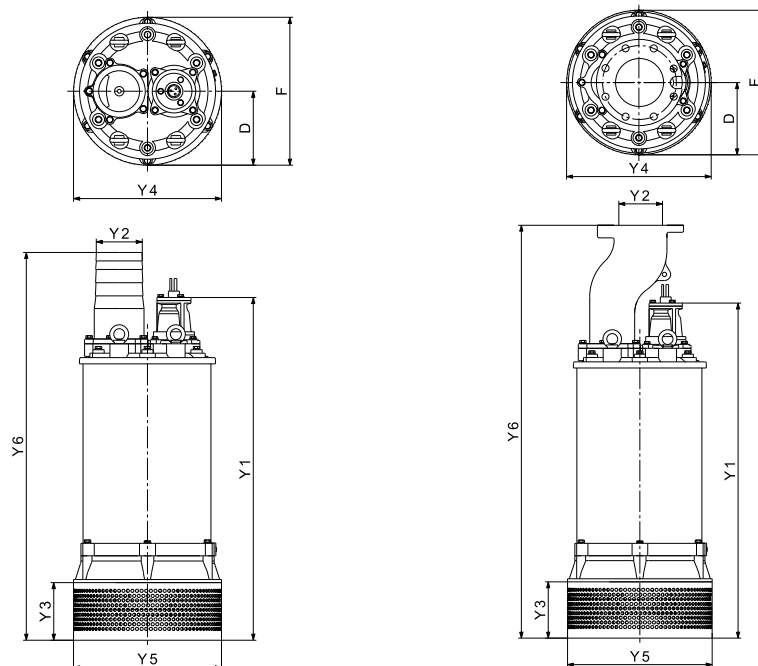
Pump type	Impeller type	Max. solids size [mm]	Max. number of starts per hour	Max. installation depth [m]	Enclosure class	Insulation class	Max. liquid temperature [°C]	pH
DWK.E.10.200.450	Enclosed	10	18	25	68	F	40	4-10

DWK.E.10.200.550.5



TN04 2904 0211

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.10.200.550.5.1E.R	Hose	1418	200	220	612	557	1511	306	612	911
DWK.E.10.200.550.5.1D.R										
DWK.E.10.200.550.5.1E	Flange	1418	200	220	612	557	1661	306	612	923
DWK.E.10.200.550.5.1D										

With 10 m cable.

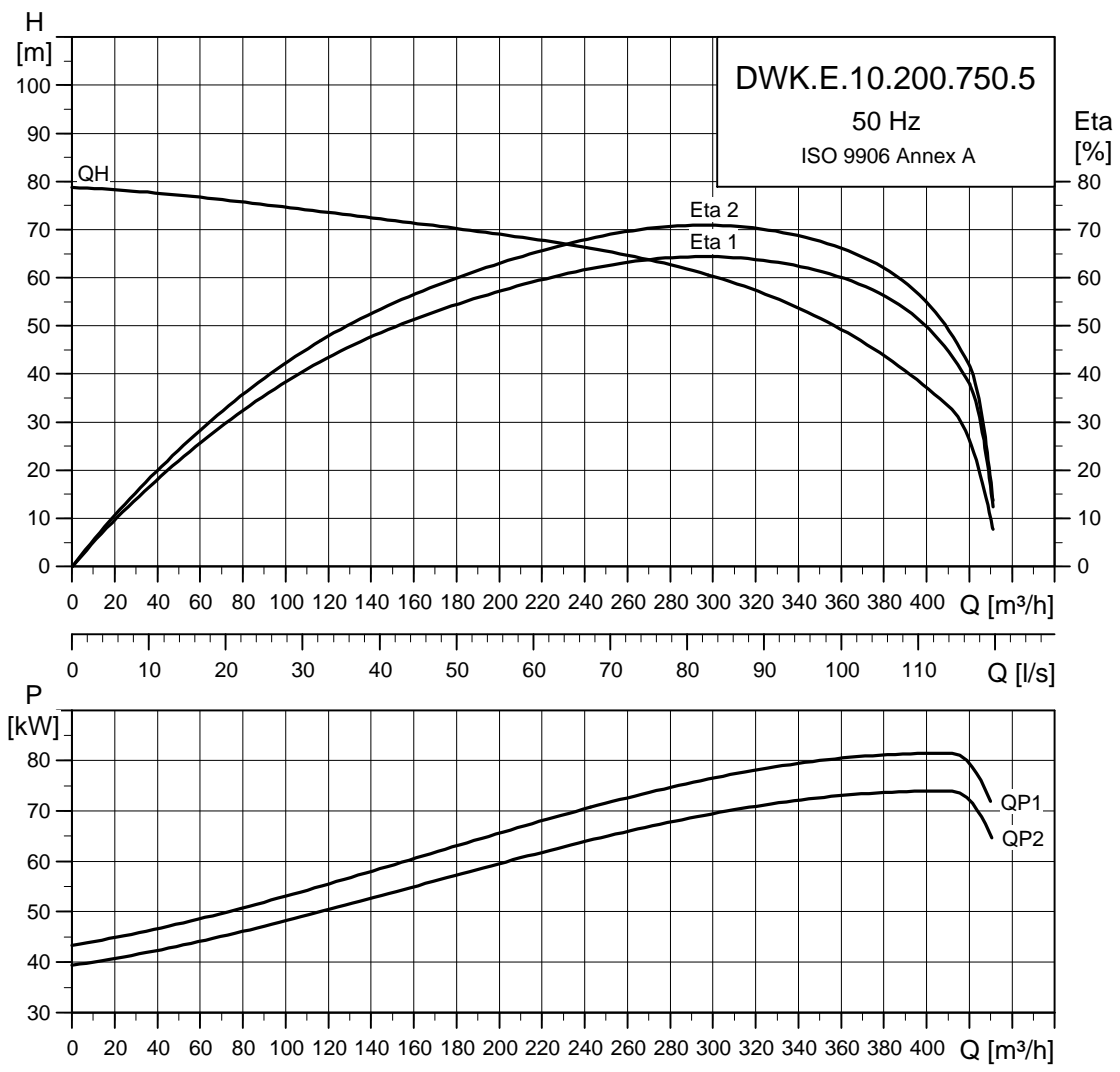
Electrical data

Pump type	Voltage [V]	P2 [kW]	min ⁻¹	Starting method	I _N [A]	η _{motor} [%]				Cos φ			Cable
						1/2	3/4	1/1	1/2	3/4	1/1		
DWK.E.10.200.550.5.1D	3 x 380-415 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 1.5 mm ²	
DWK.E.10.200.550.5.1D.R	3 x 380-415 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 1.5 mm ²	
DWK.E.10.200.550.5.1E	3 x 220-240 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 1.5 mm ²	
DWK.E.10.200.550.5.1E.R	3 x 220-240 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 1.5 mm ²	

Pump data

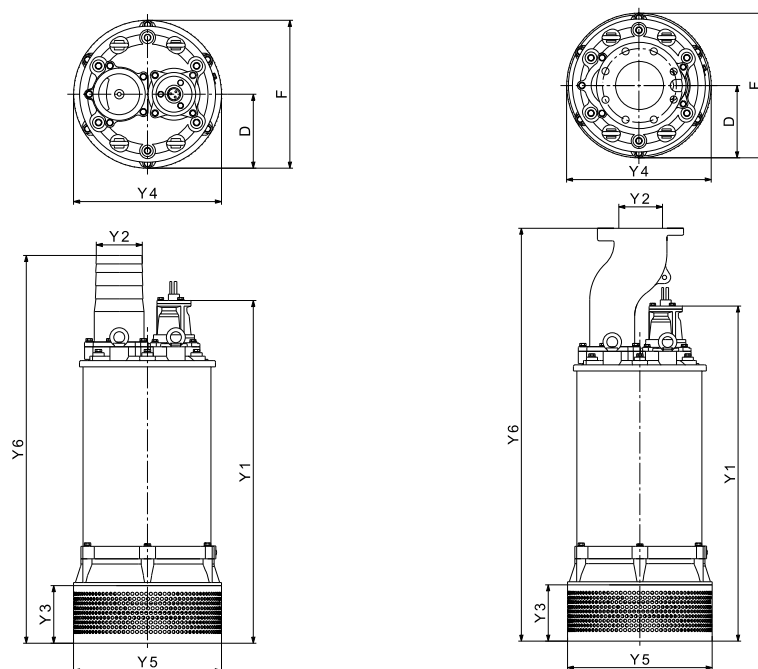
Pump type	Impeller type	Max. solids size [mm]	Max. number of starts per hour	Max. installation depth [m]	Enclosure class	Insulation class	Max. liquid temperature [°C]	pH
DWK.E.10.200.550	Enclosed	10	18	25	68	F	40	4-10

DWK.E.10.200.750.5



TM05 2905 0211

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.10.200.750.5.1E.R	Hose	1418	200	220	612	557	1511	306	612	961
DWK.E.10.200.750.5.1D.R										
DWK.E.10.200.750.5.1E	Flange	1418	200	220	612	557	1661	306	612	973
DWK.E.10.200.750.5.1D										

With 10 m cable.

Electrical data

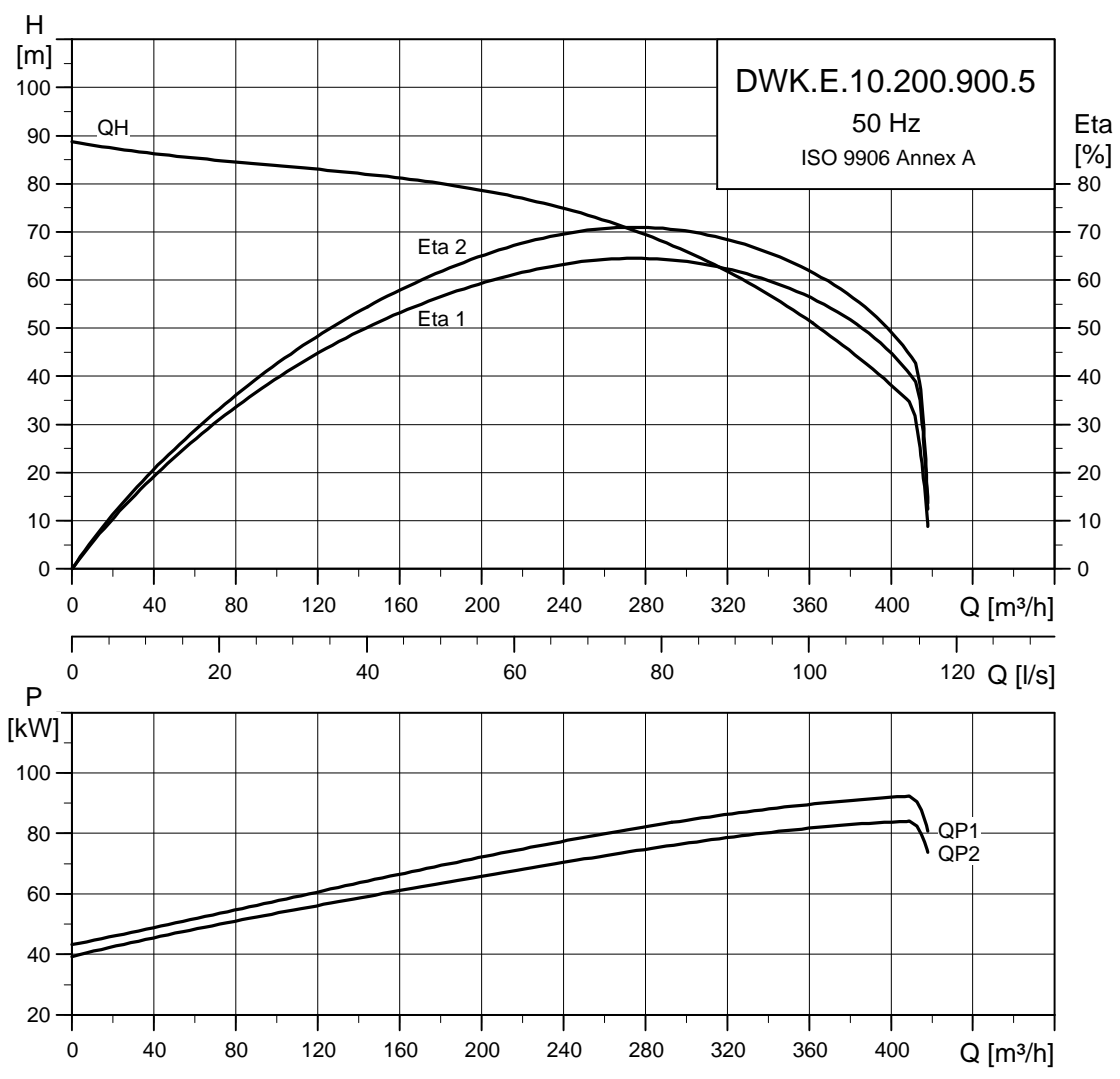
Pump type	Voltage [V]	P2 [kW]	min ⁻¹	Starting method	I _N [A]	η _{motor} [%]			Cos φ			Cable
						1/2	3/4	1/1	1/2	3/4	1/1	
DWK.E.10.200.750.5.1D	3 x 380-415 Y	75	2850	Y/D	144	88.2	90.2	90.8	0.76	0.838	0.87	7 x 35.0 mm ² + 6 x 1.5 mm ²
DWK.E.10.200.750.5.1D.R	3 x 380-415 Y	75	2850	Y/D	144	88.2	90.2	90.8	0.76	0.838	0.87	7 x 35.0 mm ² + 6 x 1.5 mm ²
DWK.E.10.200.750.5.1E	3 x 220-240 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 1.5 mm ² , 2EA*
DWK.E.10.200.750.5.1E.R	3 x 220-240 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 1.5 mm ² , 2EA*

* 2EA=two cable entries in pump.

Pump data

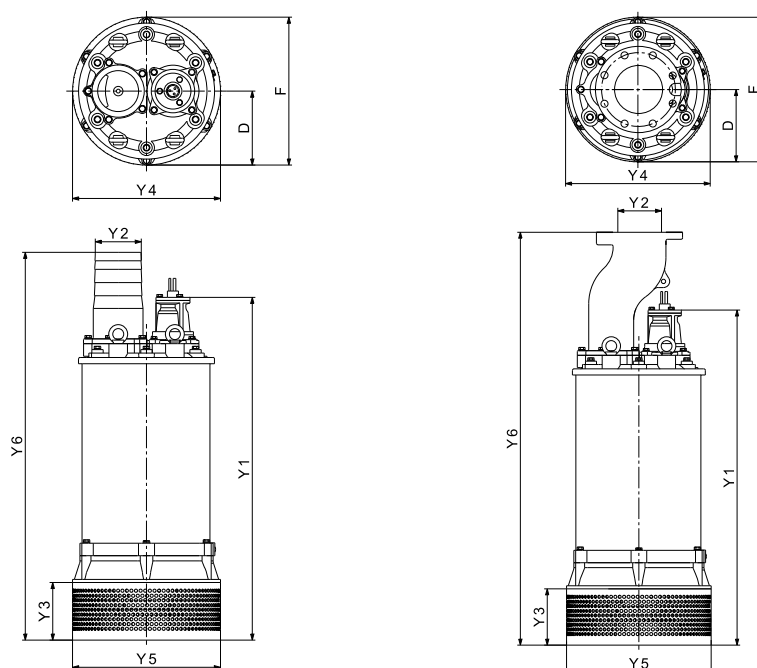
Pump type	Impeller type	Max. solids size [mm]	Max. number of starts per hour	Max. installation depth [m]	Enclosure class	Insulation class	Max. liquid temperature [°C]	pH
DWK.E.10.200.750	Enclosed	10	18	25	68	F	40	4-10

DWK.E.10.200.900.5



TM04 2906 0211

Dimensional sketches



TM04 41148 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	1511	306	612	1016
DWK.E.10.200.900.5.1D.R										
DWK.E.10.200.900.5.1D	Flange	1418	200	220	612	557	1661	306	612	1028
DWK.E.10.200.900.5.1D										

With 10 m cable.

Electrical data

Pump type	Voltage [V]	P2 [kW]	min ⁻¹	Starting method	I _N [A]	η _{motor} [%]			Cos φ			Cable
						1/2	3/4	1/1	1/2	3/4	1/1	
DWK.E.10.200.900.5.1D	3 x 380-415 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 1.5 mm ² , 2EA*
DWK.E.10.200.900.5.1D.R	3 x 380-415 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 1.5 mm ² , 2EA*

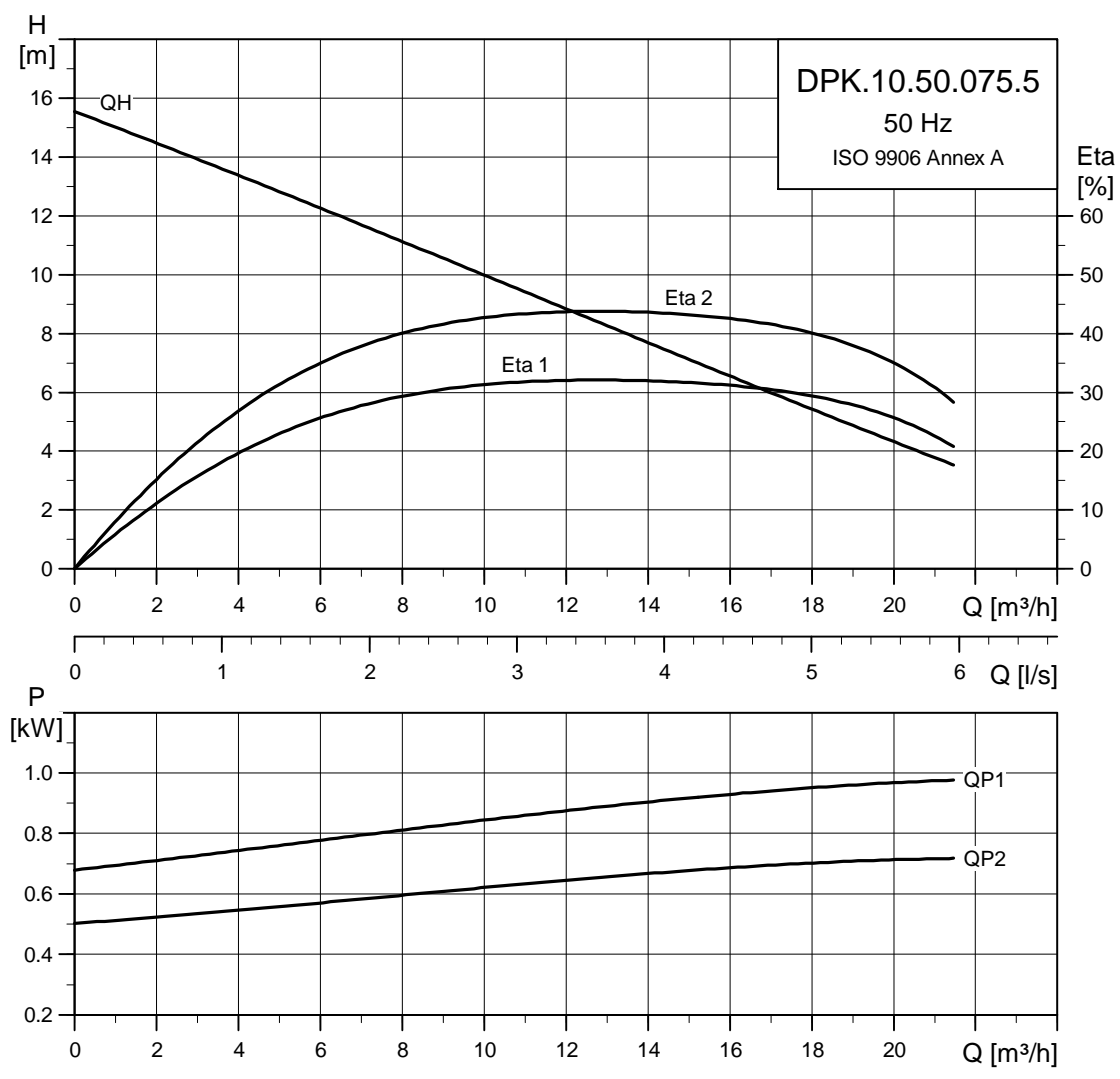
* 2EA=two cable entries in pump.

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

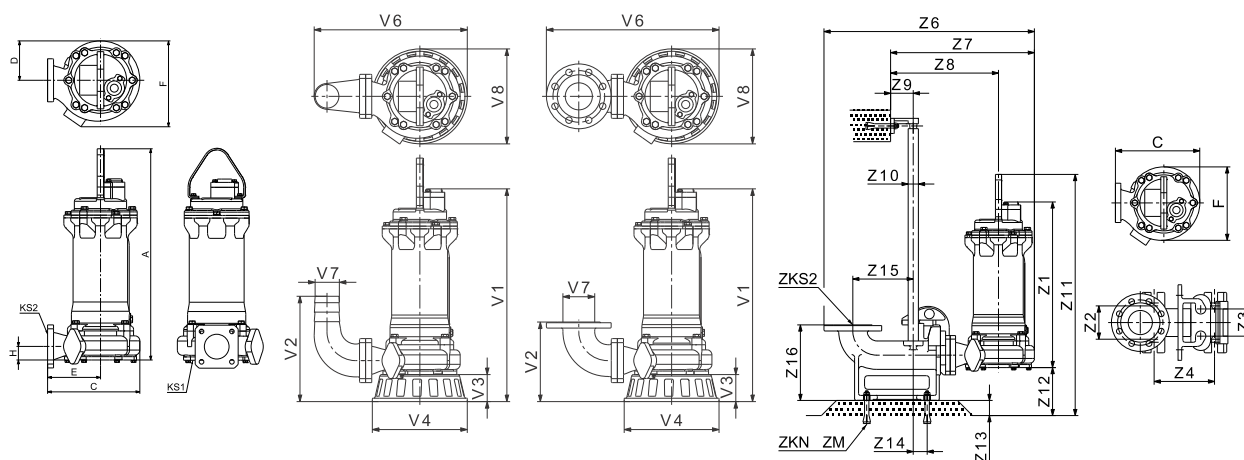
DPK

DPK.10.50.075.5



TM04 2875 1409

Dimensional sketches



TM04 4099 0709 - TM04 4100 0709 - TM04 4101 0809

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	50	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.

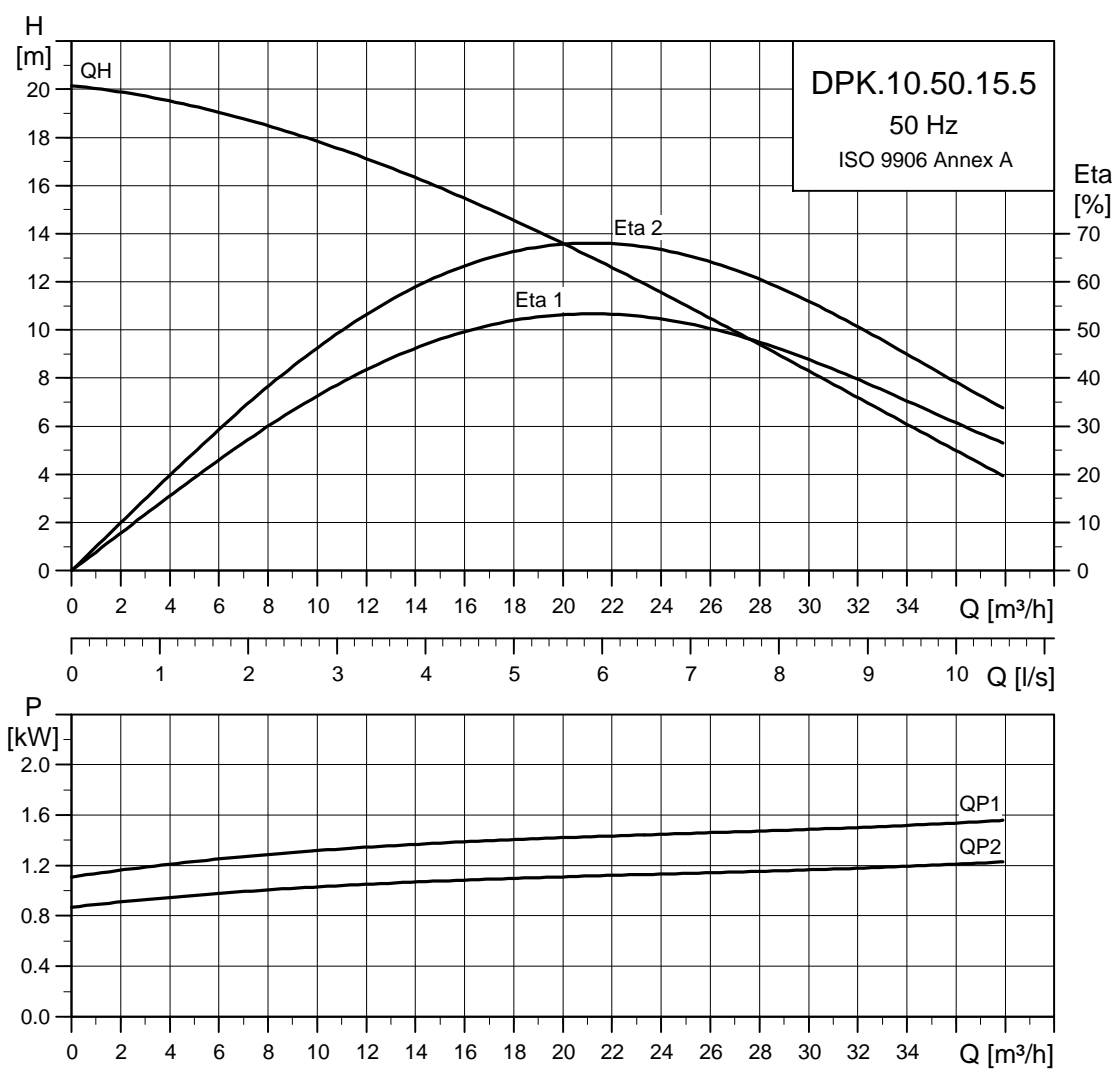
Electrical data

Pump type	Voltage [V]	P2 [kW]	min ⁻¹	Starting method	I _N [A]			η _{motor} [%]			Cos φ			Cable
					1/2	3/4	1/1	1/2	3/4	1/1	1/2	3/4	1/1	
DPK.10.50.075.5.0D	3 x 380-415 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 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

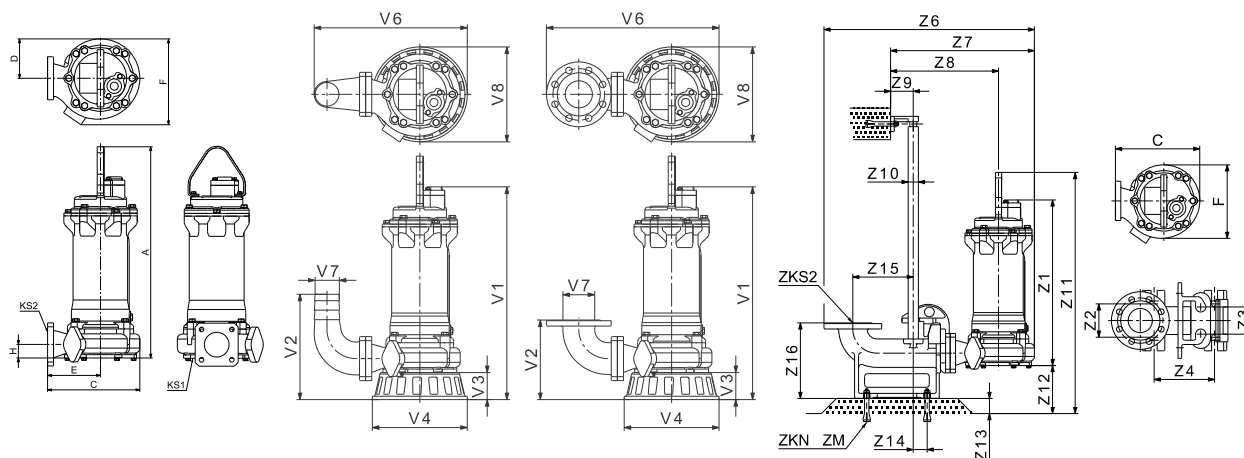
Pump type	Impeller type	Max. solids size [mm]	Max. number of starts per hour	Max. installation depth [m]	Enclosure class	Insulation class	Max. liquid temperature [°C]	pH
DPK.10.50.075	Semi-open	10	30	25	68	F	40	4-10

DPK.10.50.15.5



TM04 2876 0211

Dimensional sketches



TM04 4099 0709 - TM04 4100 0709 - TM04 4101 0809

Dimensions

Pump type	Installation type	A	C	D	E	F	H	KS1	KS2	Weight [kg]
DPK.10.50.15	Without accessories	466	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	480	231	201	70	223	327	377	50	50	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	410	120	70	120	549	381	282	50	25A	627	161	50	28	140	250	50	4	M16 x 200

With 10 m cable.

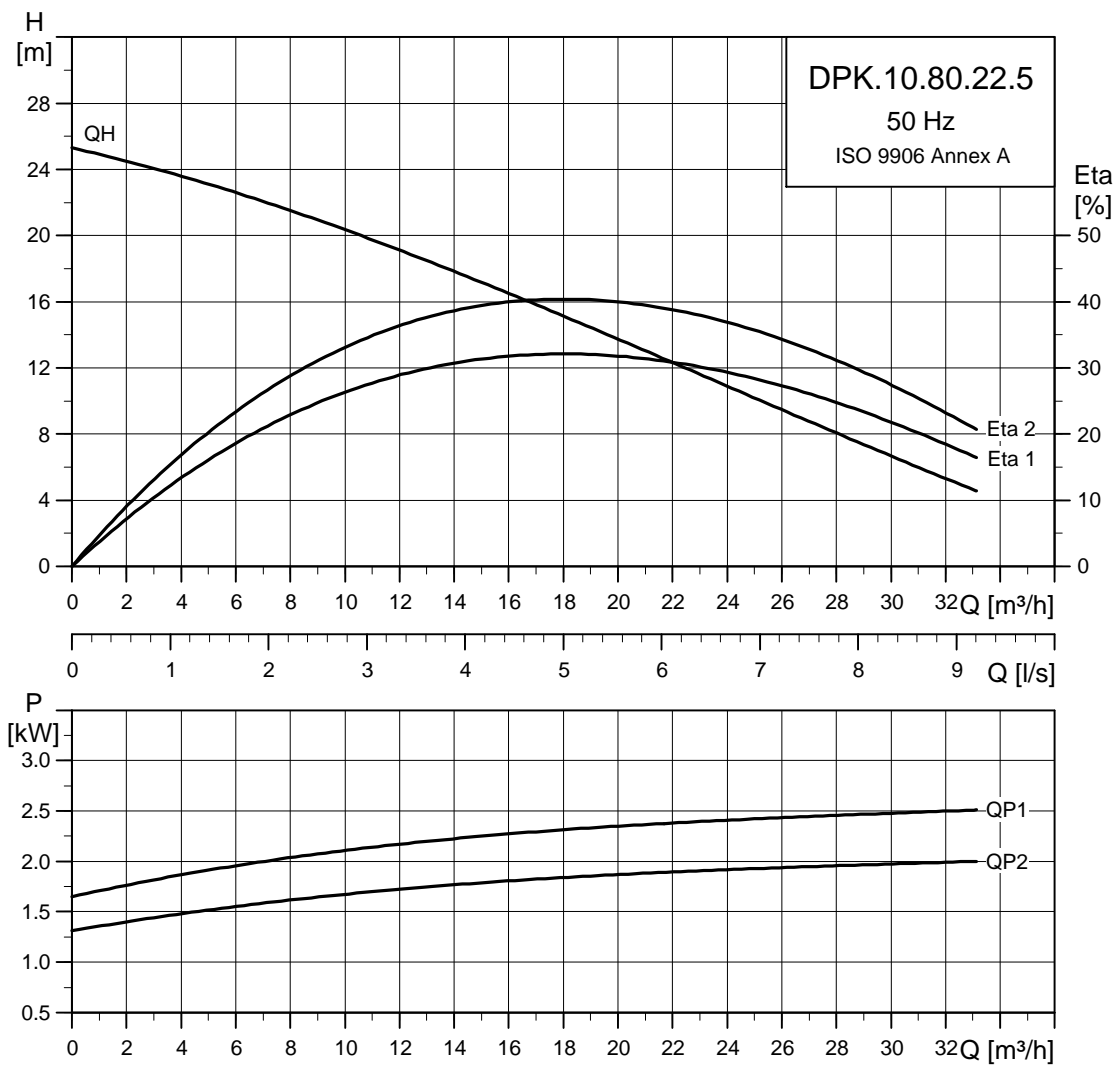
Electrical data

Pump type	Voltage [V]	P2 [kW]	min ⁻¹	Starting method	I _N [A]		η _{motor} [%]				Cos φ			Cable
					1/2	3/4	1/1	1/2	3/4	1/1	1/2	3/4	1/1	
DPK.10.50.15.5.0D	3 x 380-415 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 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

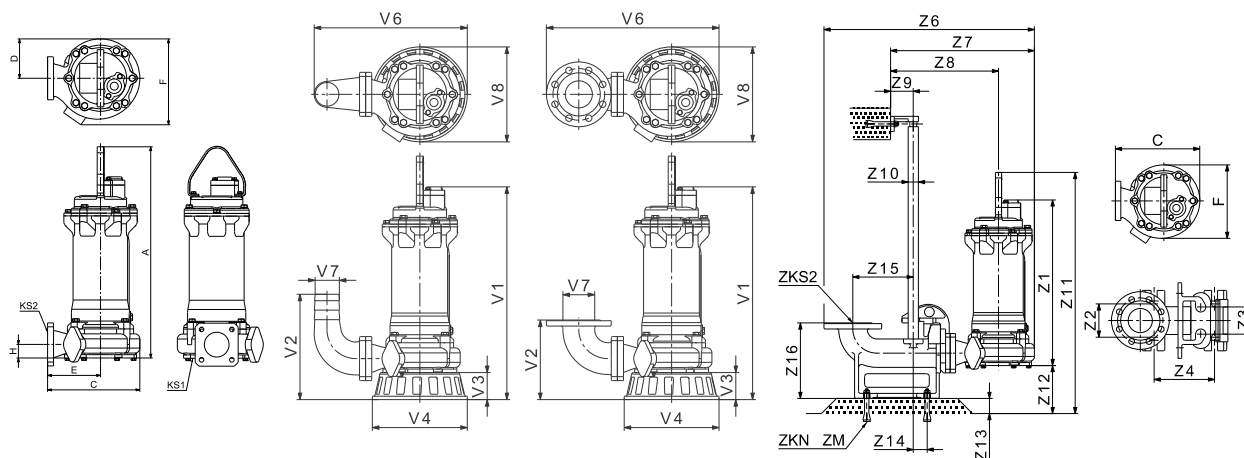
Pump type	Impeller type	Max. solids size [mm]	Max. number of starts per hour	Max. installation depth [m]	Enclosure class	Insulation class	Max. liquid temperature [°C]	pH
DPK.10.50.15	Semi-open	10	30	25	68	F	40	4-10

DPK.10.80.22.5



TM04 2877 0211

Dimensional sketches



TM04 4099 0709 - TM04 4100 0709 - TM04 4101 0809

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	80	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	4	M16 x 200

With 10 m cable.

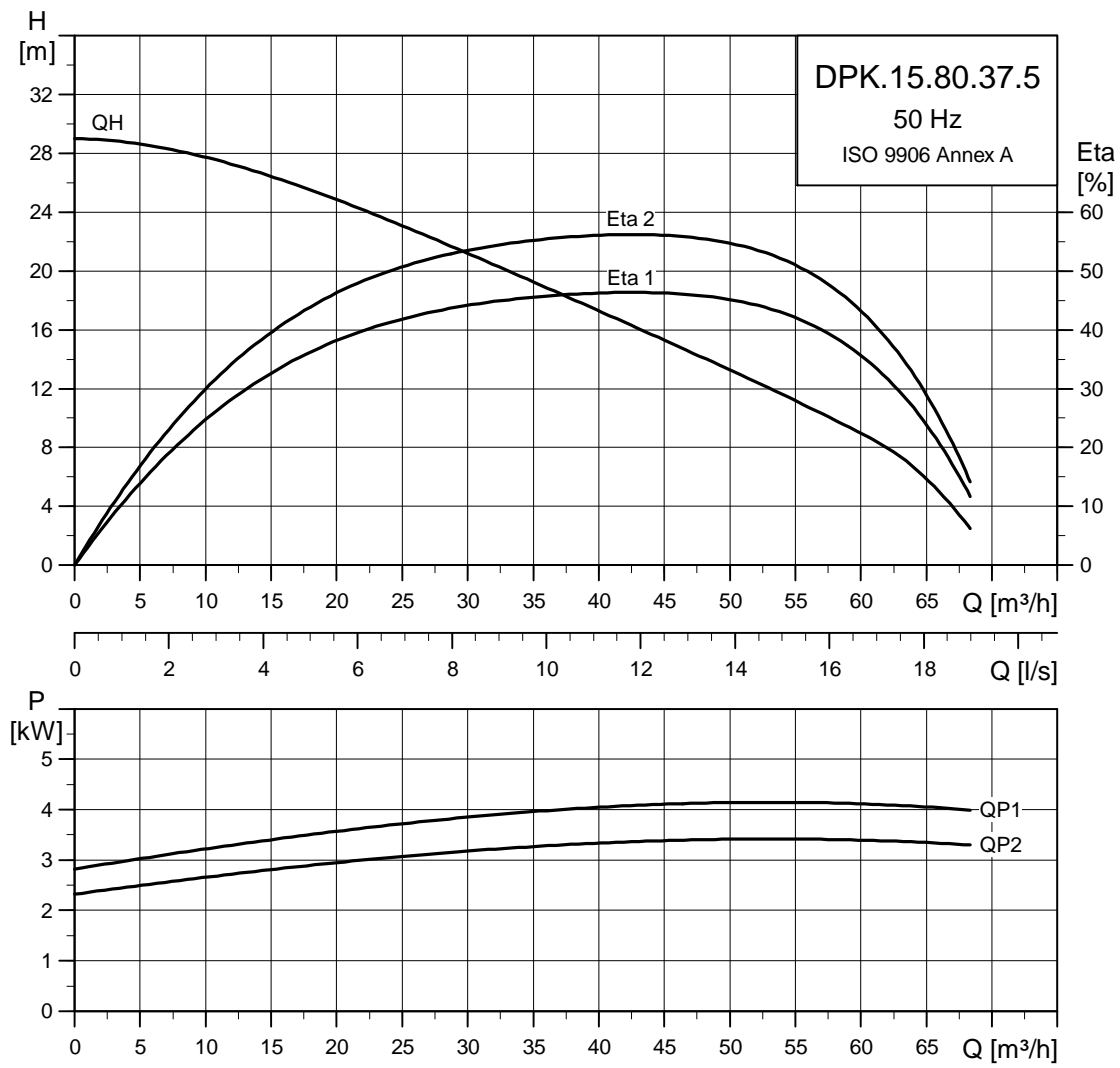
Electrical data

Pump type	Voltage [V]	P ₂ [kW]	min ⁻¹	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 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 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

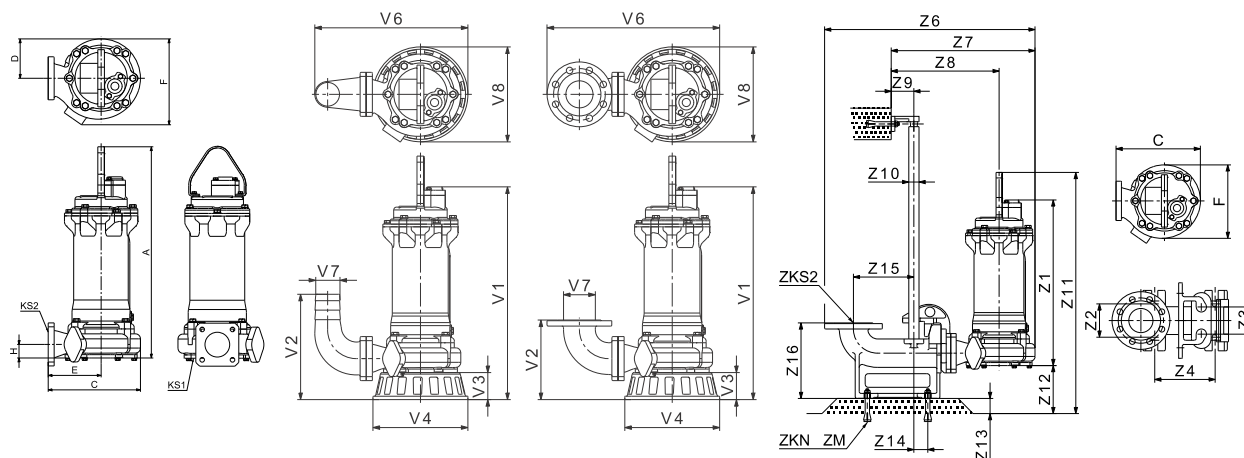
Pump type	Impeller type	Max. solids size [mm]	Max. number of starts per hour	Max. installation depth [m]	Enclosure class	Insulation class	Max. liquid temperature [°C]	pH
DPK.10.80.22	Semi-open	10	30	25	68	F	40	4-10

DPK.15.80.37.5



TM04 2878 1409

Dimensional sketches



TM04 4099 0709 - TM04 4100 0709 - TM04 4101 0809

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	80	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.

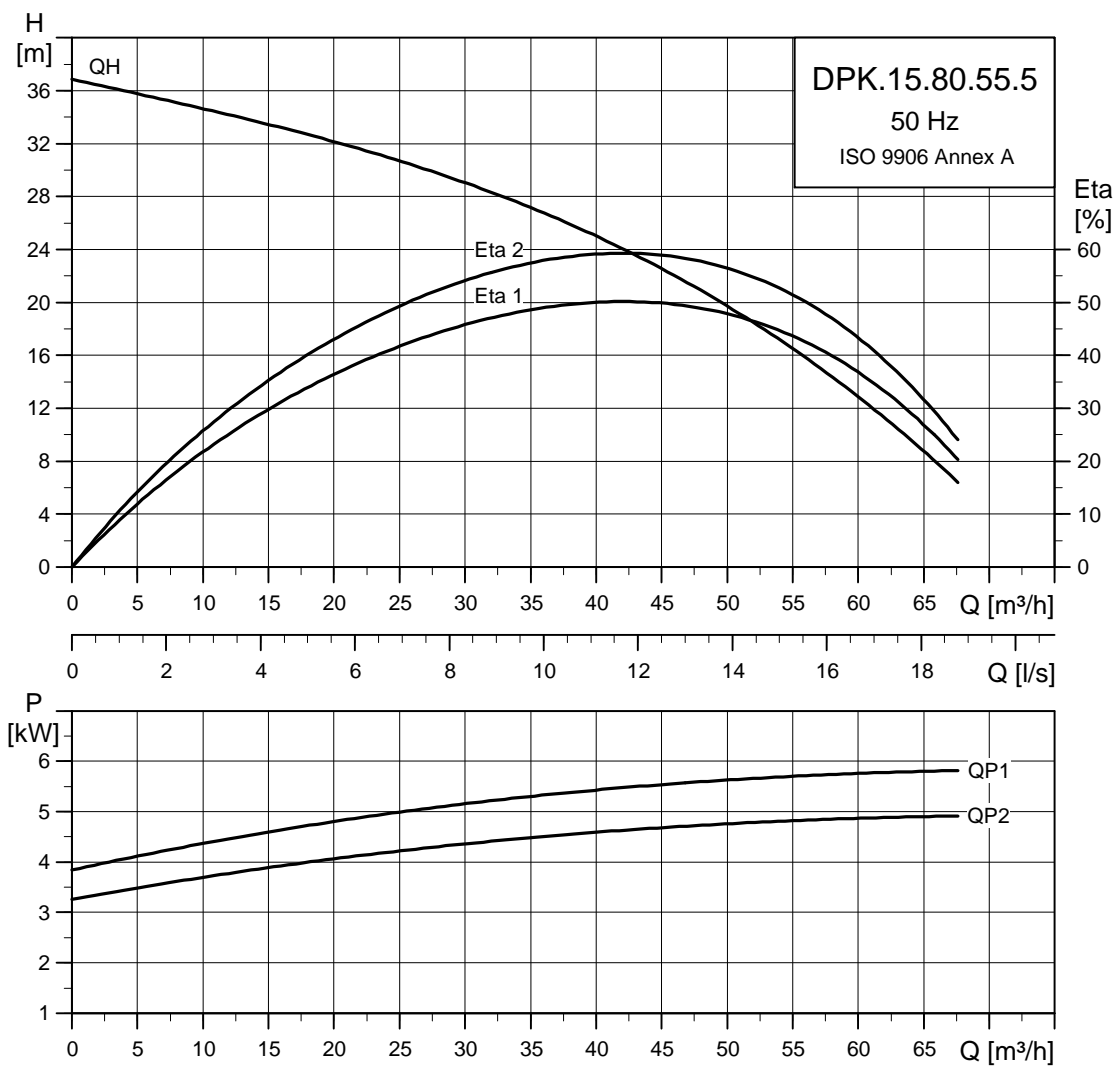
Electrical data

Pump type	Voltage [V]	P ₂ [kW]	min ⁻¹	Starting method	I _N [A]				η _{motor} [%]			Cos φ			Cable
					1/2	3/4	1/1	1/2	3/4	1/1	1/2	3/4	1/1		
DPK.15.80.37.5.0D	3 x 380-415 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 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

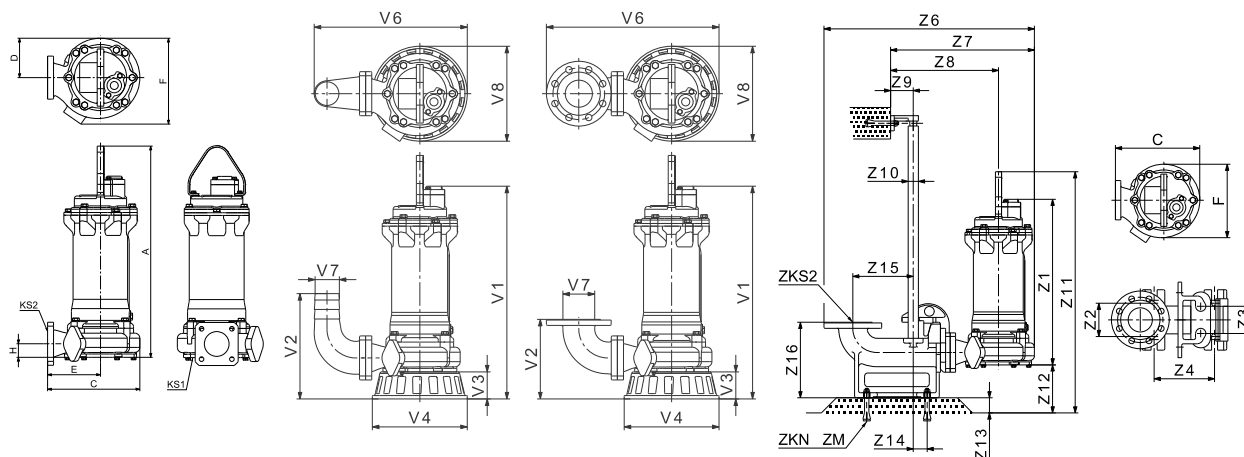
Pump type	Impeller type	Max. solids size [mm]	Max. number of starts per hour	Max. installation depth [m]	Enclosure class	Insulation class	Max. liquid temperature [°C]	pH
DPK.15.80.37	Semi-open	15	30	25	68	F	40	4-10

DPK.15.80.55.5



TM04 2879 0211

Dimensional sketches



TM04 4099 0709 - TM04 4100 0709 - TM04 4101 0609

Dimensions

Pump type	Installation type	A	C	D	E	F	H	KS1	KS2	Weight [kg]
DPK.15.80.55	Without accessories	802	279	119	160	260	49	75	80	113

Pump type	Installation type	V1	V2, hose	V2, flange	V3	V4	V6, hose	V6, flange	V7, hose	V7, flange	V8
DPK.15.80.55	Ring stand	729	311	235	80	280	452	510	80	80	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.15.80.55	Auto coupling	378	325	649	130	90	200	697	476	357	75	25A	991	159	50	46	200	250	80	4	M16 x 200

With 10 m cable.

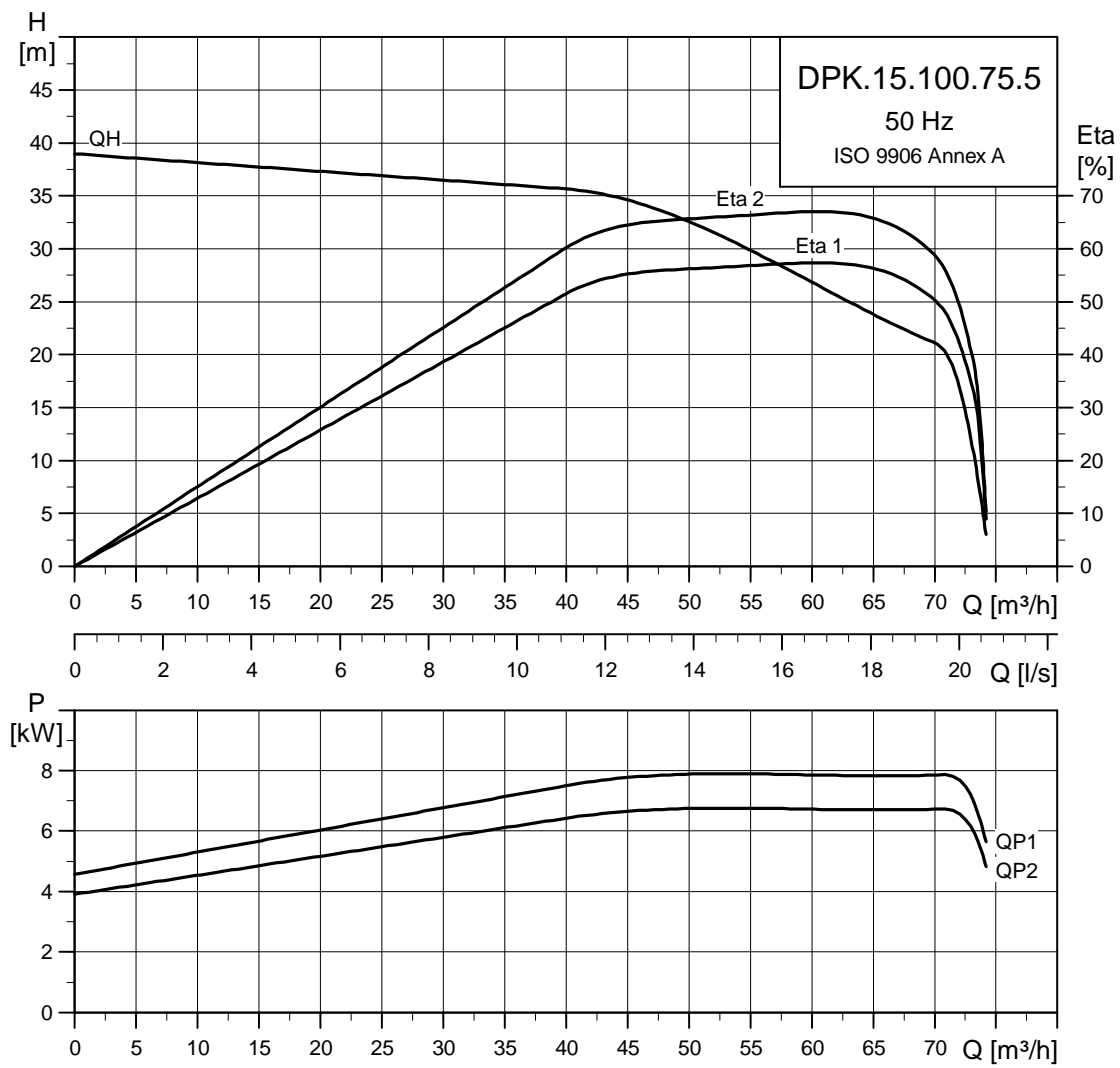
Electrical data

Pump type	Voltage [V]	P2 [kW]	min ⁻¹	Starting method	I _N [A]	η _{motor} [%]			Cos φ			Cable
						1/2	3/4	1/1	1/2	3/4	1/1	
DPK.15.80.55.5.0D	3 x 380-415 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.15.80.55.5.0E	3 x 220-240 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.15.80.55.5.1D	3 x 380-415 D	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.15.80.55.5.1E	3 x 220-240 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

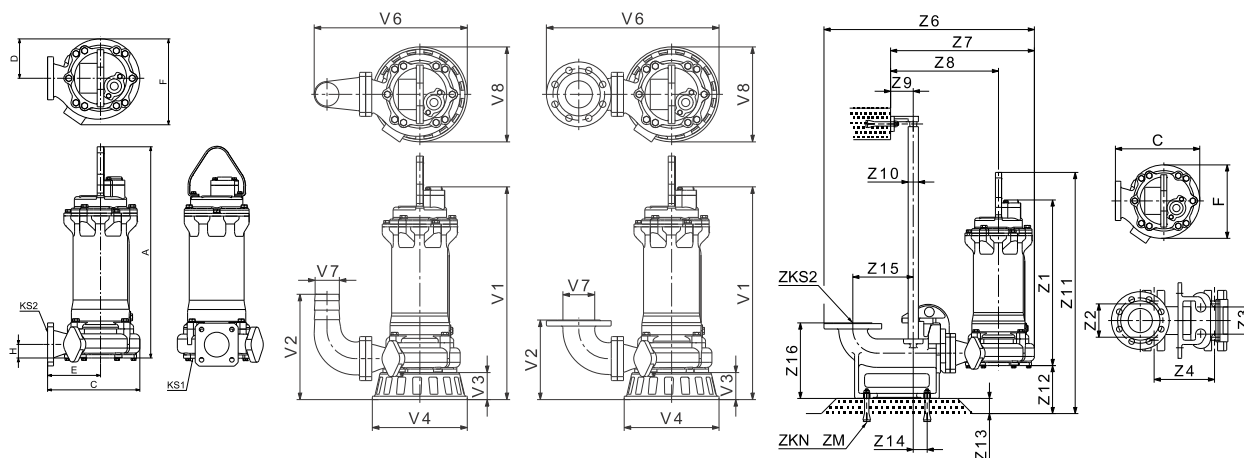
Pump type	Impeller type	Max. solids size [mm]	Max. number of starts per hour	Max. installation depth [m]	Enclosure class	Insulation class	Max. liquid temperature [°C]	pH
DPK.15.80.55	Semi-open	15	30	25	68	F	40	4-10

DPK.15.100.75.5



TM04 2880 1409

Dimensional sketches



TM04 4099 0709 - TM04 4100 0709 - TM04 4101 0809

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	100	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.

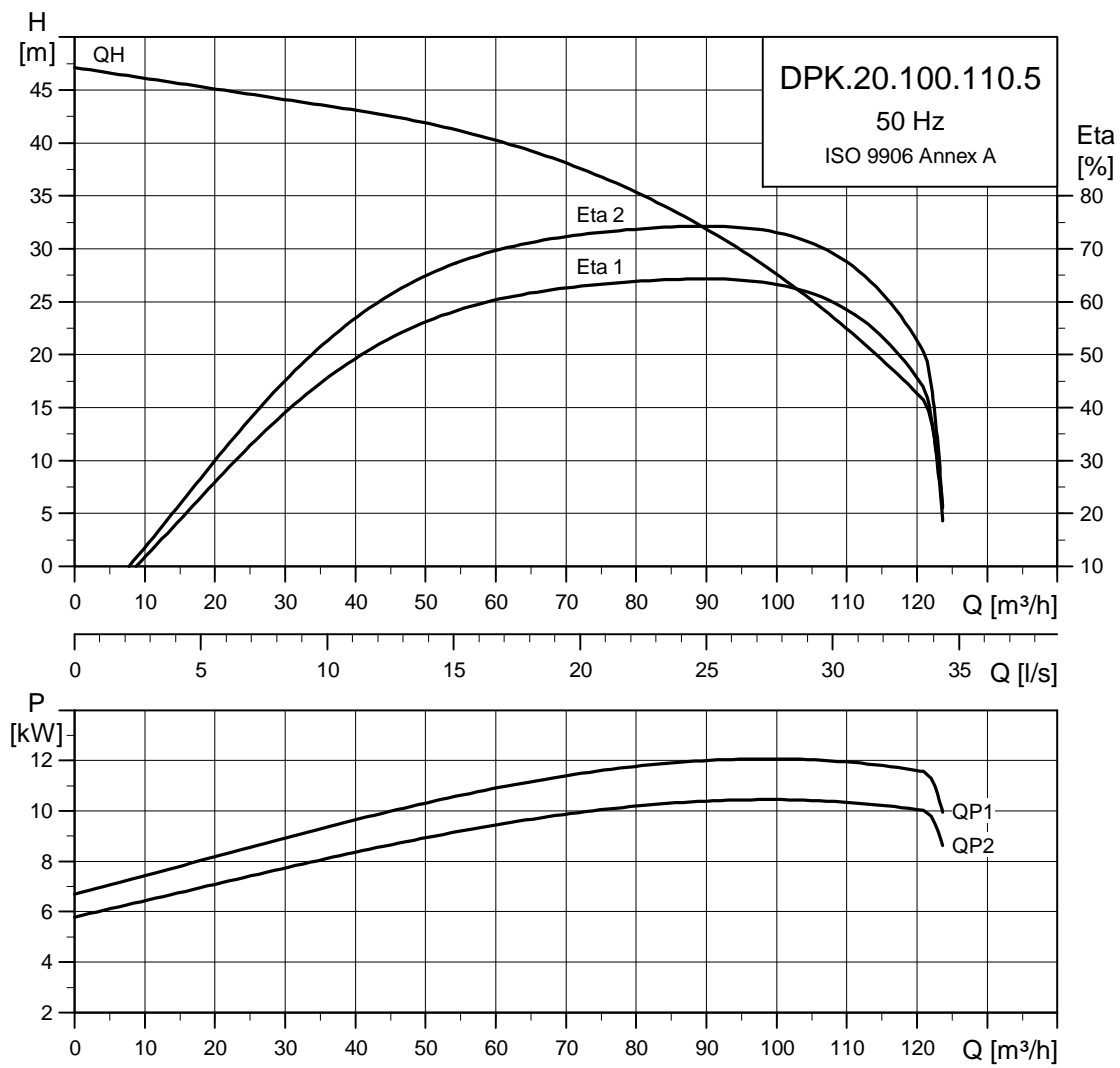
Electrical data

Pump type	Voltage [V]	P2 [kW]	min ⁻¹	Starting method	I _N [A]	η _{motor} [%]			Cos φ			Cable
						1/2	3/4	1/1	1/2	3/4	1/1	
DPK.15.100.75.5.0D	3 x 380-415 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 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 D	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 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

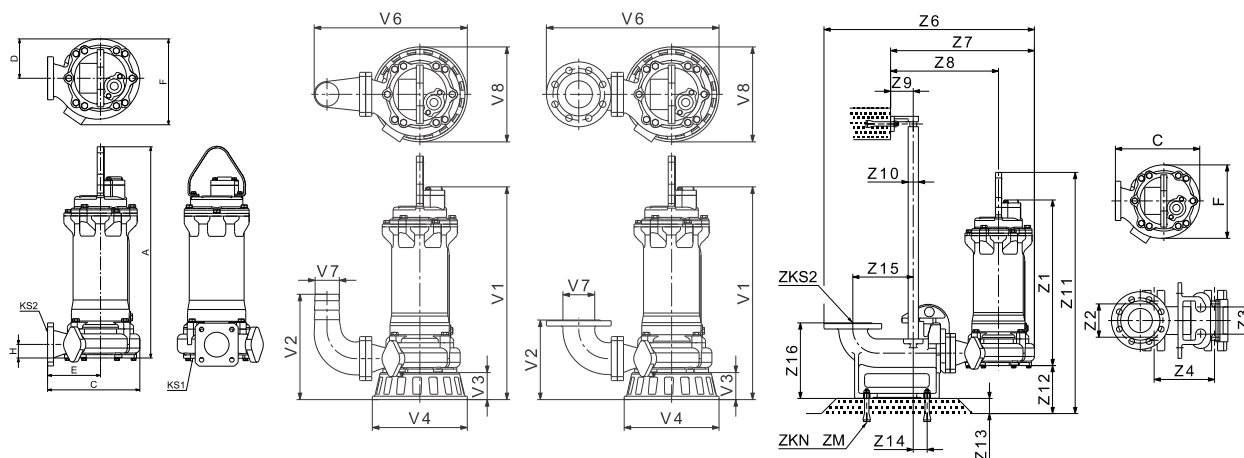
Pump type	Impeller type	Max. solids size [mm]	Max. number of starts per hour	Max. installation depth [m]	Enclosure class	Insulation class	Max. liquid temperature [°C]	pH
DPK.15.100.75	Semi-open	15	30	25	68	F	40	4-10

DPK.20.100.110.5



TM04 2881 1409

Dimensional sketches



TM04 4099 0709 - TM04 4100 0709 - TM04 4101 0809

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	100	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.

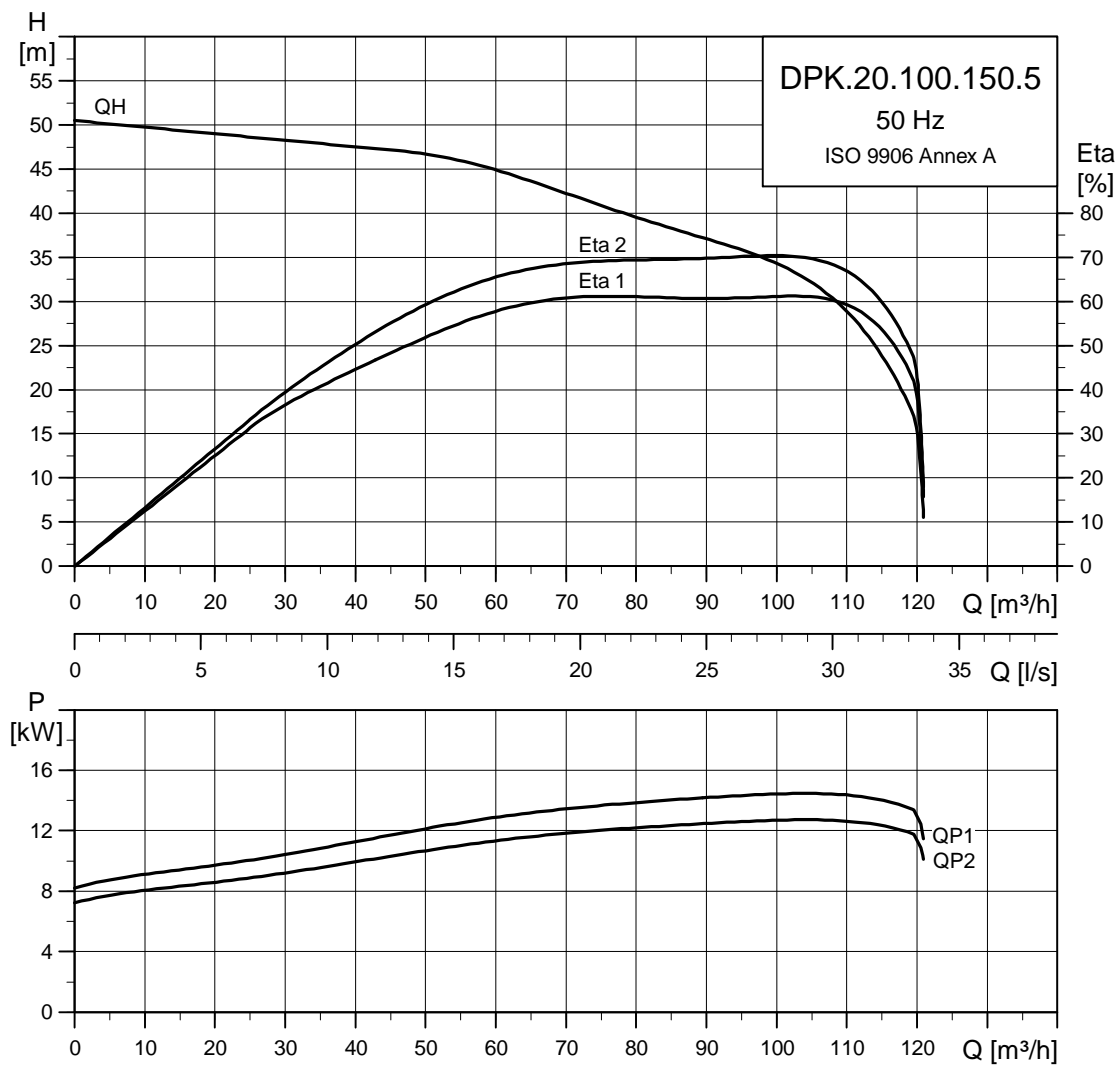
Electrical data

Pump type	Voltage [V]	P2 [kW]	min ⁻¹	Starting method	I _N [A]	η _{motor} [%]			Cos φ			Cable
						1/2	3/4	1/1	1/2	3/4	1/1	
DPK.20.100.110.5.0D	3 x 380-415 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 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 D	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 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

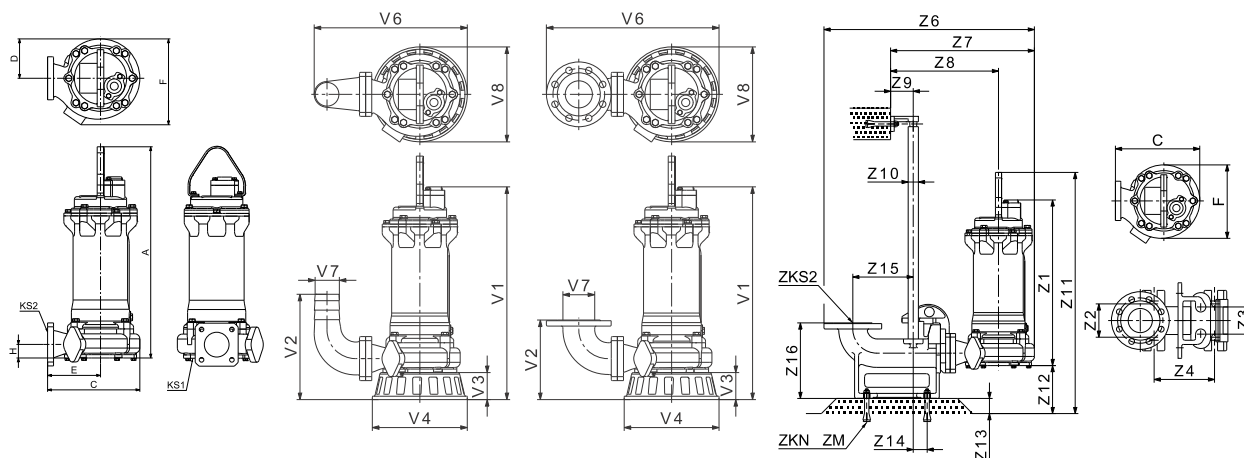
Pump type	Impeller type	Max. solids size [mm]	Max. number of starts per hour	Max. installation depth [m]	Enclosure class	Insulation class	Max. liquid temperature [°C]	pH
DPK.20.100.110	Semi-open	20	30	25	68	F	40	4-10

DPK.20.100.150.5



TM04 2882 1409

Dimensional sketches



TM04 4099 0709 - TM04 4100 0709 - TM04 4101 0809

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	100	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.

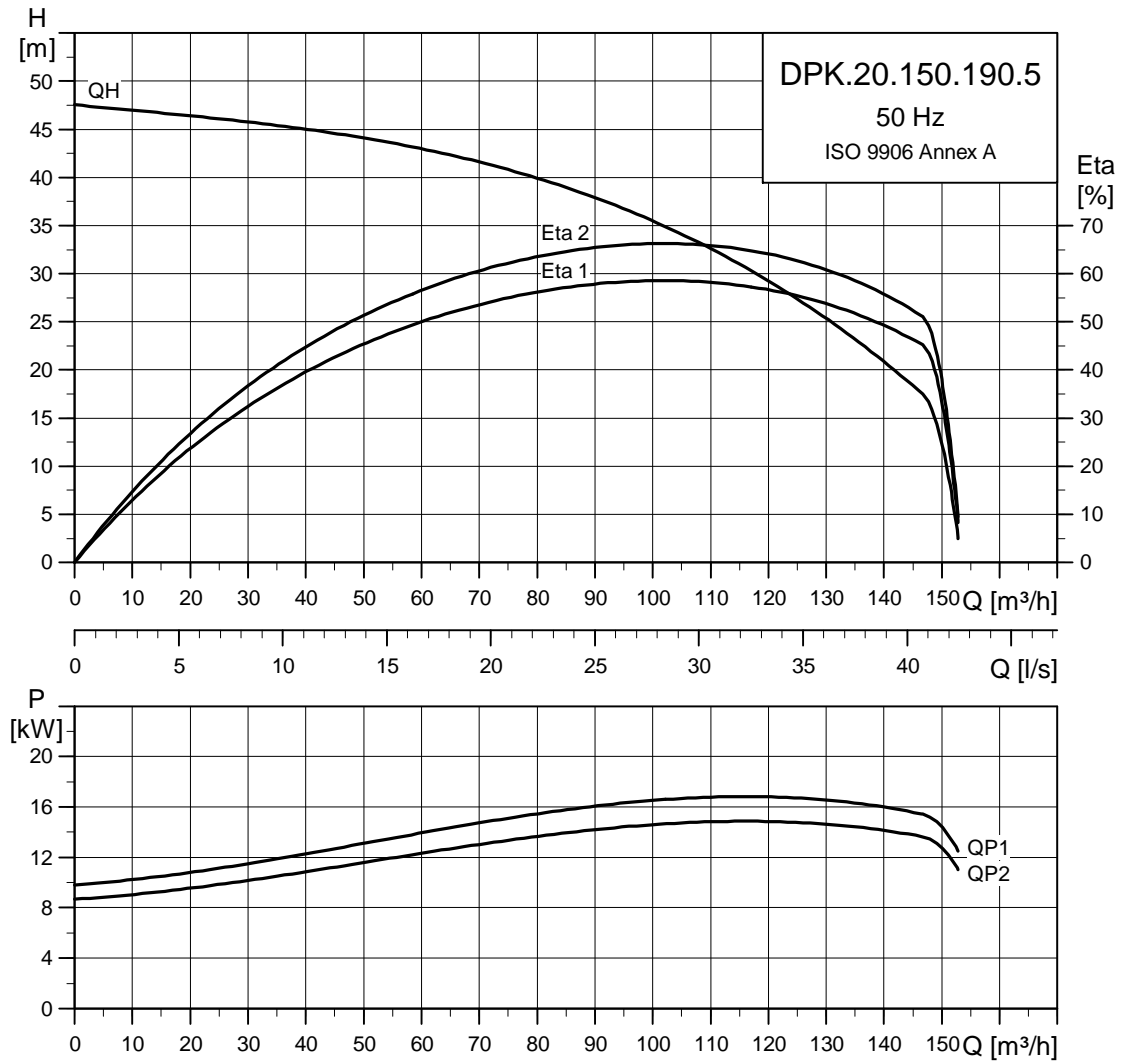
Electrical data

Pump type	Voltage [V]	P2 [kW]	min ⁻¹	Starting method	I _N [A]	η _{motor} [%]			Cos φ			Cable
						1/2	3/4	1/1	1/2	3/4	1/1	
DPK.20.100.150.5.0D	3 x 380-415 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 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 D	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 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

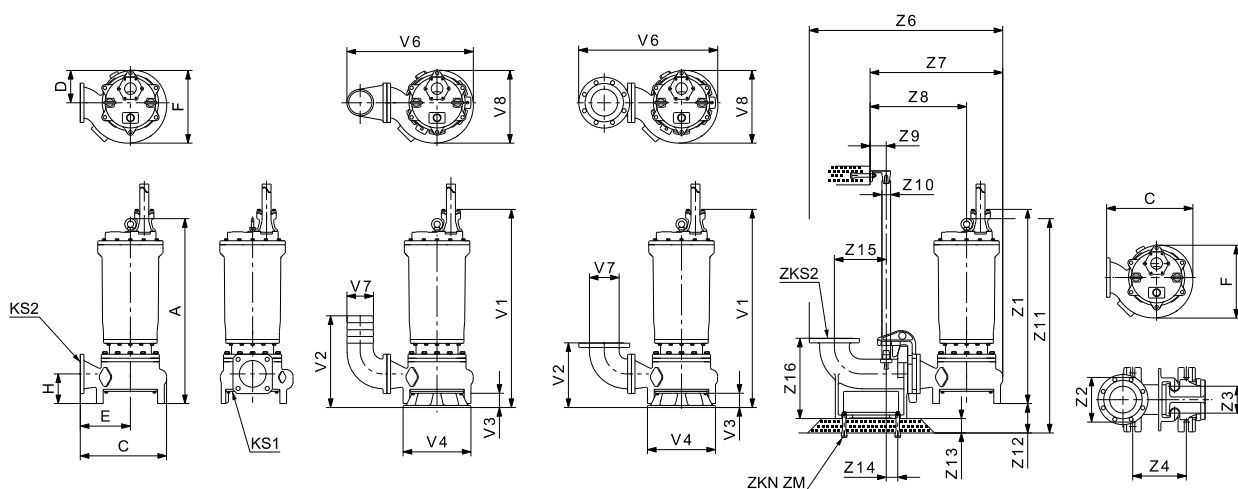
Pump type	Impeller type	Max. solids size [mm]	Max. number of starts per hour	Max. installation depth [m]	Enclosure class	Insulation class	Max. liquid temperature [°C]	pH
DPK.20.100.150	Semi-open	20	30	25	68	F	40	4-10

DPK.20.150.190.5



TM04 2883 1409

Dimensional sketches



TM05 1464 2711

Dimensions

Pump type	Installation type	A	C	D	E	F	H	KS1	KS2	Weight [kg]
DPK.20.150.190	Without accessories	1035	483	181	280	407	166	110	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	1100	513	362	90	380	708	778	150	150	407

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	407	1078	250	150	300	1083	743	540	90	40A	1199	164	80	65	290	450	150	4	M20* 200L

With 10 m cable.

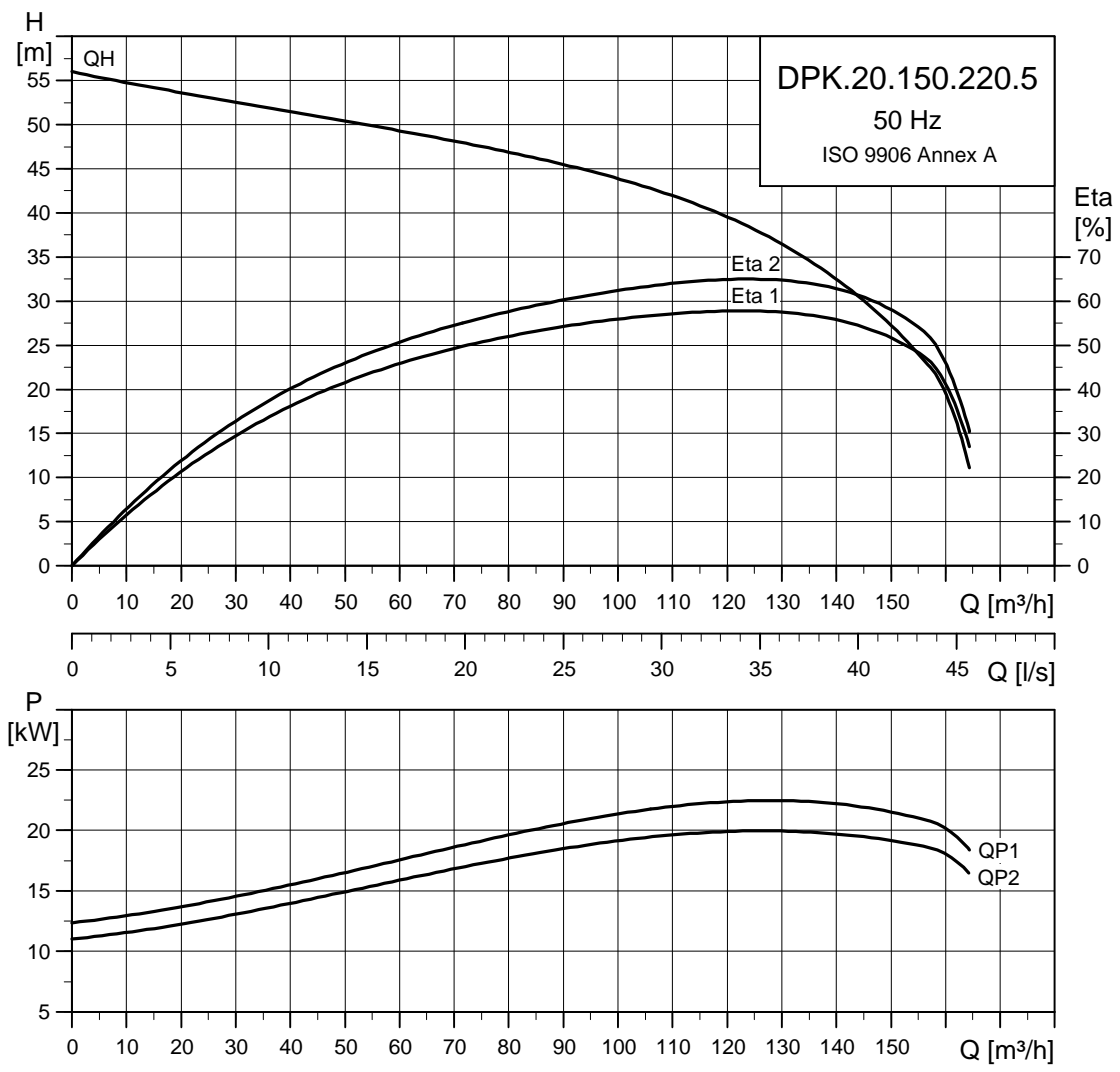
Electrical data

Pump type	Voltage [V]	P2 [kW]	min ⁻¹	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 Y	19	2850	Y/D	36	85.9	87.8	88.4	0.772	0.851	0.884	7 x 10.0 mm ² + 6 x 1.5 mm ²		
DPK.20.150.190.5.1E	3 x 220-240 D	19	2850	Y/D	63	85.9	87.8	88.4	0.772	0.851	0.884	7 x 1.0 mm ² + 6 x 1.5 mm ²		

Pump data

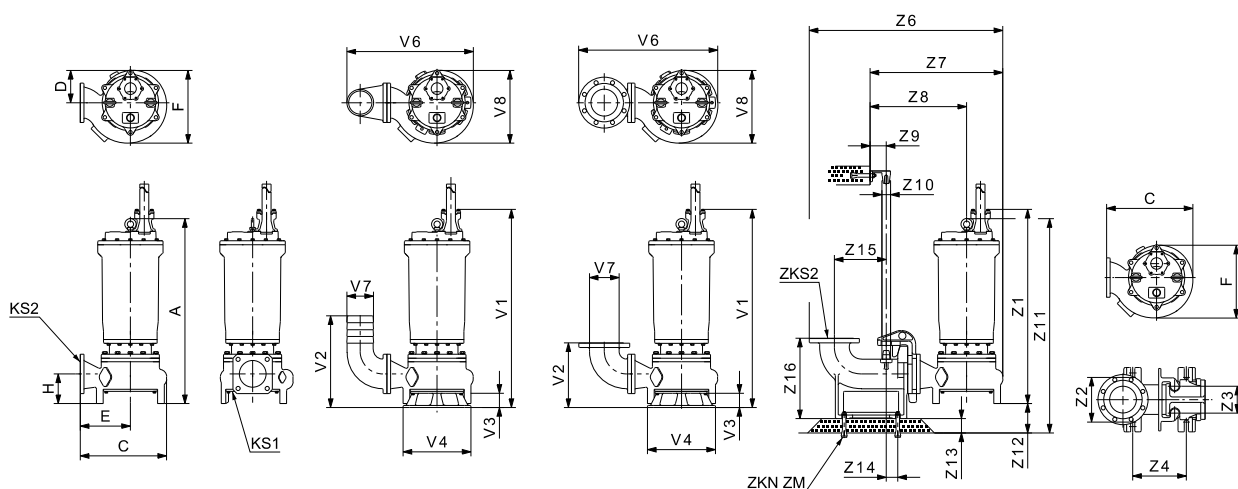
Pump type	Impeller type	Max. solids size [mm]	Max. number of starts per hour	Max. installation depth [m]	Enclosure class	Insulation class	Max. liquid temperature [°C]	pH
DPK.20.150.190	Semi-open	20	18	25	68	F	40	4-10

DPK.20.150.220.5



TM04 2884 0211

Dimensional sketches



TM05 1464 2711

Dimensions

Pump type	Installation type	A	C	D	E	F	H	KS1	KS2	Weight [kg]
DPK.20.150.220	Without accessories	1035	483	181	280	407	166	110	150	300

Pump type	Installation type	V1	V2, hose	V2, flange	V3	V4	V6, hose	V6, flange	V7, hose	V7, flange	V8
DPK.20.150.220	Ring stand	1100	513	362	90	380	708	778	150	150	407

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	407	1078	250	150	300	1083	743	540	90	40A	1199	164	80	65	290	450	150	4	M20* 200L

With 10 m cable.

Electrical data

Pump type	Voltage [V]	P2 [kW]	min ⁻¹	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 Y	22	2850	Y/D	43	86.7	88.6	89.2	0.747	0.824	0.855	7 x 10.0 mm ² + 6 x 1.5 mm ²		
DPK.20.150.220.5.1E	3 x 220-240 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 1.5 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
DPK.20.150.220	Semi-open	20	18	25	68	F	40	4-10

11. 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, galvanised	10 m	•	•	•	•	•	•	•	•								96884370
	6 m	•	•	•	•	•	•	•	•								96884371
	3 m	•	•	•	•	•	•	•	•								96884372
Wire with clip, galvanised	10 m									•	•	•	•	•	•	•	96884373
	6 m									•	•	•	•	•	•	•	96884374
	3 m									•	•	•	•	•	•	•	96884375
Coupling half, Storz coupling																	
50 mm	O-ring	∅3.1 x ∅60															96884376
	Screws	4 x M8 x 30 mm															
	Washers	4 x M8															
80 mm	O-ring	∅3.1 x ∅60															96884377
	Screws	4 x M8 x 30 mm															
	Washers	4 x M8															
80 mm	O-ring	∅3.1 x ∅105															96884378
	Screws	4 x M10 x 30 mm															
	Washers	4 x M10															
100 mm	O-ring	∅3.1 x ∅105															96884379
	Screws	4 x M10 x 30 mm															
	Washers	4 x M10															
150 mm	O-ring	∅3.1 x ∅105															96884380
	Screws	4 x M10 x 30 mm															
	Washers	4 x M10															
100 mm	O-ring	∅3.5 x ∅150															96884381
	Screws	5 x M12 x 35 mm															
	Washers	5 x M12															
150 mm	O-ring	∅3.1 x ∅158															96884382
	Screws	5 x M12 x 35 mm															
	Washers	5 x M12															
150 mm	O-ring	∅5.7 x ∅180															96884383
	Screws	6 x M16 x 45 mm															
	Washers	6 x M16															
150 mm	O-ring	∅5.7 x ∅180															96884384
	Screws	6 x M16 x 55 mm															
	Washers	6 x M16															
10 m flat hose incl. Storz clamp																	
50 mm	•	•	•														96922517
80 mm		•	•	•	•												96922518
100 mm				•	•	•	•	•	•								96922520
150 mm						•	•	•	•	•	•	•	•	•			96922521
20 m flat hose incl. Storz clamp																	
50 mm	•	•	•														96922529
80 mm		•	•	•	•												96922530
100 mm				•	•	•	•	•	•								96922532
150 mm						•	•	•	•	•	•	•	•	•			96922533

Description			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, JIS, incl. flange coupling																		
50 mm	O-ring	∅3.1 x ∅60																
	Screws	4 x M8 x 30 mm	•	•	•													
	Washers	4 x M8																
80 mm	O-ring	∅3.1 x ∅60																
	Screws	4 x M8 x 30 mm		•	•													
	Washers	4 x M8																
80 mm	O-ring	∅3.1 x ∅105																
	Screws	4 x M10 x 30 mm				•	•											
	Washers	4 x M10																
100 mm	O-ring	∅3.1 x ∅105																
	Screws	4 x M10 x 30 mm				•	•	•	•	•								
	Washers	4 x M10																
150 mm	O-ring	∅3.1 x ∅105																
	Screws	4 x M10 x 30 mm						•	•	•								
	Washers	4 x M10																
100 mm	Gasket	150																
	Screws	5 x M12 x 35 mm								•								
	Washers	5 x M12																
150 mm	Gasket	150																
	Screws	5 x M12 x 35 mm								•	•							
	Washers	5 x M12																
150 mm	Gasket	150																
	Screws	6 x M16 x 45 mm									•	•						
	Washers	6 x M16																
150 mm	Gasket	150																
	Screws	6 x M16 x 55 mm												•				
	Washers	6 x M16																
200 mm	Gasket	150																
	Screws	5 x M12 x 35 mm									•							
	Washers	5 x M12																
200 mm	Gasket	150																
	Screws	6 x M16 x 45 mm										•	•					
	Washers	6 x M16																
200 mm	Gasket	150																
	Screws	6 x M16 x 55 mm												•	•			
	Washers	16 x M6													•			
Discharge flange, DIN, incl. flange coupling																		
50 mm	O-ring	∅3.1 x ∅60																
	Screws	4 x M8 x 30 mm	•	•	•													
	Washers	4 x M8																
80 mm	O-ring	∅3.1 x ∅60																
	Screws	4 x M8 x 30 mm		•	•													
	Washers	4 x M8																
80 mm	O-ring	∅3.1 x ∅105																
	Screws	4 x M10 x 30 mm				•	•											
	Washers	4 x M10																
100 mm	O-ring	∅3.1 x ∅105																
	Screws	4 x M10 x 30 mm				•	•	•	•	•								
	Washers	4 x M10																
150 mm	O-ring	∅3.1 x ∅105																
	Screws	4 x M10 x 30 mm						•	•	•								
	Washers	4 x M10																
100 mm	Gasket	150																
	Screws	5 x M12 x 35 mm								•								
	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		
150 mm	Gasket	150																96922573
	Screws	5 x M12 x 35 mm								•	•							
	Washers	5 x M12																
150 mm	Gasket	150																96922574
	Screws	6 x M16 x 45 mm										•	•					
	Washers	6 x M16																
150 mm	Gasket	150																96922575
	Screws	6 x M16 x 55 mm												•				
	Washers	6 x M16																
200 mm	Gasket	150																96922576
	Screws	5 x M12 x 35 mm										•						
	Washers	5 x M12																
200 mm	Gasket	150																96922577
	Screws	6 x M16 x 45 mm										•	•					
	Washers	6 x M16																
200 mm	Gasket	150																96922578
	Screws	6 x M16 x 55 mm												•	•	•		
	Washers	6 x M16																
Discharge flange, ANSI, incl. flange coupling																		
2"	O-ring	∅3.1 x ∅60																96922579
	Screws	4 x M8 x 30 mm	•	•	•													
	Washers	4 x M8																
3"	O-ring	∅3.1 x ∅60																96922580
	Screws	4 x M8 x 30 mm		•	•													
	Washers	4 x M8																
3"	O-ring	∅3.1 x ∅105																96922581
	Screws	4 x M10 x 30 mm				•	•											
	Washers	4 x M10																
4"	O-ring	∅3.1 x ∅105																96922582
	Screws	4 x M10 x 30 mm				•	•	•	•	•								
	Washers	4 x M10																
6"	O-ring	∅3.1 x ∅105																96922583
	Screws	4 x M10 x 30 mm						•	•	•								
	Washers	10																
4"	O-ring	150																96922584
	Screws	5 x M12 x 35 mm									•							
	Washers	5 x M12																
6"	O-ring	150																96922585
	Screws	5 x M12 x 35 mm									•	•						
	Washers	5 x M12																
6"	Gasket	150																96922586
	Screws	6 x M16 x 45 mm											•	•				
	Washers	6 x M16																
6"	Gasket	150																96922587
	Screws	6 x M16 x 55 mm													•			
	Washers	6 x M16																
8"	Gasket	150																96922588
	Screws	5 x M12 x 35 mm											•					
	Washers	5 x M12																
8"	Gasket	150																96922589
	Screws	6 x M16 x 45 mm											•	•				
	Washers	6 x M16																
8"	Gasket	150																96922590
	Screws	6 x M16 x 55 mm												•	•	•		
	Washers	6 x M16																

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 for hose incl. hose coupling																	
50 mm	O-ring	∅3.1 x ∅60															96922591
	Screws	4 x M8 x 30 mm															
	Washers	4 x M8															
80 mm	O-ring	∅3.1 x ∅60															96922592
	Screws	4 x M8 x 30 mm															
	Washers	4 x M8															
80 mm	O-ring	∅3.1 x ∅105															96922593
	Screws	4 x M10 x 30 mm															
	Washers	4 x M10															
100 mm	O-ring	∅3.1 x ∅105															96922594
	Screws	4 x M10 x 30 mm															
	Washers	4 x M10															
150 mm	O-ring	∅3.1 x ∅105															96922595
	Screws	4 x M10 x 30 mm															
	Washers	4 x M10															
100 mm	O-ring	∅3.5 x ∅150															96922596
	Screws	5 x M12 x 35 mm															
	Washers	5 x M12															
150 mm	O-ring	∅3.1 x ∅158															96922597
	Screws	5 x M12 x 35 mm															
	Washers	5 x M12															
150 mm	O-ring	∅5.7 x ∅180															96922598
	Screws	6 x M16 x 45 mm															
	Washers	6 x M16															
150 mm	O-ring	∅5.7 x ∅180															96922599
	Screws	6 x M16 x 55 mm															
	Washers	6 x M16															
200 mm	O-ring	∅5.7 x ∅180															96922600
	Screws	5 x M12 x 35 mm															
	Washers	5 x M12															
200 mm	O-ring	∅5.7 x ∅180															96922601
	Screws	6 x M16 x 45 mm															
	Washers	6 x M16															
200 mm	O-ring	∅5.7 x ∅180															96922602
	Screws	6 x M16 x 55 mm															
	Washers	6 x M16															
GU01		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	96922603
GU02					•	•	•	•	•	•	•	•	•	•	•	•	96922604

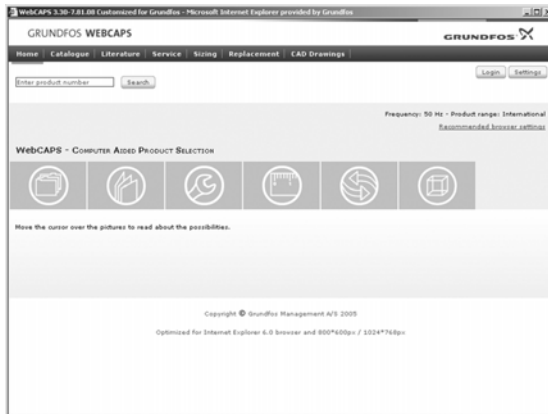
DPK

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, galvanised	10 m	•	•	•	•	•	•	•	•				96884370
	6 m	•	•	•	•	•	•	•	•				96884371
	3 m	•	•	•	•	•	•	•	•				96884372
Wire with clip, galvanised	10 m									•	•		96884373
	6 m									•	•		96884374
	3 m									•	•		96884375
Discharge elbow for JIS flange incl. flange coupling													
50 mm	Gasket	50 mm	•	•									96922605
	Screws	4 x M10 x 30 mm											
	Washers	4 x M10											
80 mm	Gasket	80 mm			•	•	•						96922606
	Screws	4 x M12 x 35 mm											
	Washers	4 x M12											
100 mm	Gasket	100 mm						•	•	•			96922607
	Screws	4 x M12 x 40 mm											
	Washers	4 x M12											
150 mm	Gasket	150 mm									•	•	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	•	•									96922609
	Screws	4 x M10 x 30 mm											
	Washers	4 x M10											
80 mm	Gasket	80 mm			•	•	•						96922610
	Screws	4 x M12 x 35 mm											
	Washers	4 x M12											
100 mm	Gasket	100 mm						•	•	•			96922611
	Screws	4 x M12 x 40 mm											
	Washers	4 x M12											
150 mm	Gasket	150 mm									•	•	96922612
	Screws	4 x M12 x 40 mm											
	Washers	4 x M12											
Discharges elbow for ANSI flange incl. flange coupling													
2"	Gasket	2"	•	•									96922613
	Screws	4 x M10 x 30 mm											
	Washers	4 x M10											
3"	Gasket	3"			•	•	•						96922614
	Screws	4 x M12 x 35 mm											
	Washers	4 x M12											
4"	Gasket	4"						•	•	•			96922615
	Screws	4 x M12 x 40 mm											
	Washers	4 x M12											
6"	Gasket	6"									•	•	96922616
	Screws	4 x M12 x 40 mm											
	Washers	4 x M12											

			DPK [kW]									Product number	
Description	Dimensions		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	•	•									96922617
	Screws	4 x M10 x 30 mm											
	Washers	4 x M10											
80 mm	Gasket	80 mm			•	•	•						96922618
	Screws	4 x M12 x 35 mm											
	Washers	4 x M12											
100 mm	Gasket	100 mm						•	•	•			96922619
	Screws	4 x M12 x 40 mm											
	Washers	4 x M12											
150 mm	Gasket	150 mm									•	•	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			•	•									96922621
80 mm					•	•	•						96922622
100 mm								•	•	•			96922623
150 mm											•	•	96922624
Auto coupling (ADC-T) for DIN flange, without anchor bolts and guide rails													
50 mm			•	•									96922625
80 mm					•	•	•						96936832
100 mm								•	•	•			96922627
150 mm											•	•	96922628
Auto coupling (ADC-T) for ANSI flange, without anchor bolts and guide rails													
2"			•	•									96922629
3"					•	•	•						96922630
4"								•	•	•			96922631
6"											•	•	96922632
Hydraulic seal	50 mm		•	•									96936839
	80 mm				•	•	•						96936840
	100 mm							•	•	•			96936841
	150 mm										•	•	96936842
Anchor bolts for auto coupling (ADC-T)	4 x M16 x 200 mm for ADC-T 50 mm		•	•									96922633
	4 x M16 x 200 mm for ADC-T 80 mm				•	•	•						96922634
	4 x M16 x 200 mm for ADC-T 100 mm								•	•	•		96922635
	4 x M20 x 200 mm for ADC-T 150 mm											•	•
Control system	GU01		•	•	•	•	•	•	•	•	•	•	96922603
	GU02					•	•	•	•	•	•	•	96922604
Ring stand incl. screws and washers													
Discharge 80 mm	Screws	3 x M8 x 35 mm				•	•						96936843
	Washers	3 x M8											
Discharge 100 mm	Screws	3 x M12 x 45 mm						•	•	•			96936844
	Washers	3 x M12											
Discharge 150 mm	Screws	3 x M12 x 40 mm									•	•	96936845
	Washers	3 x M12											

12. Further product documentation

WebCAPS

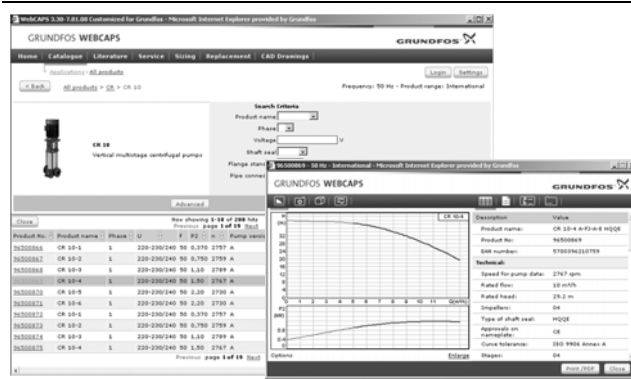


WebCAPS is a **Web-based Computer Aided Product Selection** program available on www.grundfos.com.

WebCAPS contains detailed information on more than 220,000 Grundfos products in more than 30 languages.

Information in WebCAPS is divided into six sections:

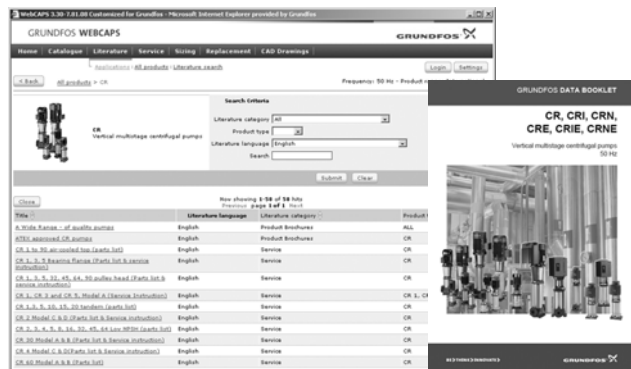
- Catalogue
- Literature
- Service
- Sizing
- Replacement
- CAD drawings.



Catalogue

Based on fields of application and pump types, this section contains the following:

- 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

This section contains 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, the 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 size a product:

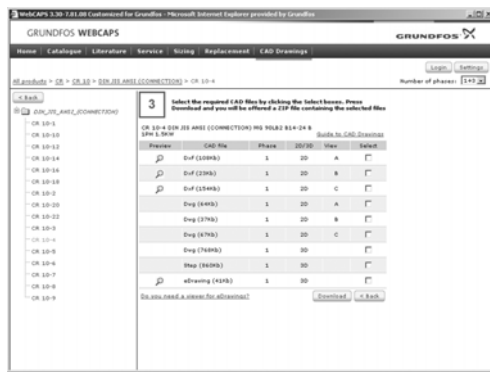
- Select the most suitable and efficient pump for your installation
- Carry out advanced calculations based on energy consumption, payback periods, load profiles, life cycle costs, etc.
- Analyse your selected pump via the built-in life cycle cost tool
- Determine the flow velocity in wastewater applications, 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 **Windows-based Computer Aided Product Selection** program containing detailed information on more than 220,000 Grundfos products in more than 30 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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ECM: 1081250

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