DPK pumps

0.75 - 22 kW, 50 Hz



GRUNDFOS

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1. Product introduction

This data booklet describes the Grundfos DPK drainage pumps.



TM077257

DPK pumps for free-standing installation

The pumps are designed with semi-open or SuperVortex, free-flow impeller, for use in a wide range of applications in industrial and construction sites.

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 to 22.0 kW.

The DPK.V pumps are fitted with 2- and 4-pole motors from 1.5 to 7.5 kW.

The free passage in the DPK pumps is 10-20 mm. For DPK.V pumps, the free passage is 65-80 mm.

The pumps are available for two installation types:

- free-standing, submerged installation
- submerged installation on auto-coupling system.

1.1 Application

The pumps are ideal for transferring the following liquids:

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

DPK.V pumps are ideal for transferring the following liquids:

- effluent
- screened sewage.

The pumps are used in mining sites, building services, basement garages, construction sites, low lying rainwater catchment areas, processing industry.

1.2 Design features

The pumps are designed with double mechanical seals positioned in the oil chamber to ensure trouble-free operation.

DPK pumps up to 2.2 kW are supplied with ring stand. 3.0 kW and larger DPK pumps are supplied without ring stand.

DPK.V pumps are supplied without a ring stand. Ring stand, elbow or auto coupling for these pumps must be ordered as accessories.

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

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

Outlet connection

As standard, DPK pumps have no outlet connection. Various outlet connections are available on request.

For further information, see sections Variants and Accessories. The pump outlet is available with auto coupling or outlet elbow as a variant.

The following sections give further design details on the DPK pumps.

1.2.1 DPK

- Watertight cable entry prevents water from penetrating into the motor.
- 19 and 22 kW pumps have a triple cable entry system, including a rubber ring and a rubber diaphragm. To ensure waterproof operation, the rubber diaphragm is filled with epoxy.
- No extra cable is required for sensors.
- PTO and Klixon 17AM thermal switches for thermal protection.
- Seal sensor for continuous monitoring of motor enclosure for liquid detection, except for the following 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.

1.2.2 DPK.V

- SuperVortex impeller in non-clogging design, ideal for liquids with high content of solids, fibres or gassy sludge.

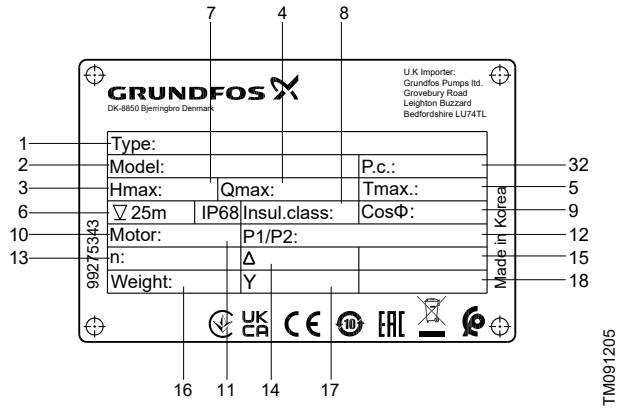
- Watertight cable entry preventing water from penetrating into the motor.
- No extra cable is required for sensors.
- Bimetallic thermal switch for motor overheating detection.
- Seal sensor for continuous monitoring of motor enclosure for liquid detection, except for the following models:
  - DPK.V.65.80.15.X.X
  - DPK.V.65.80.22.X.X
  - DPK.V.80.80.37.X.X.
- Ductile cast-iron or stainless steel 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

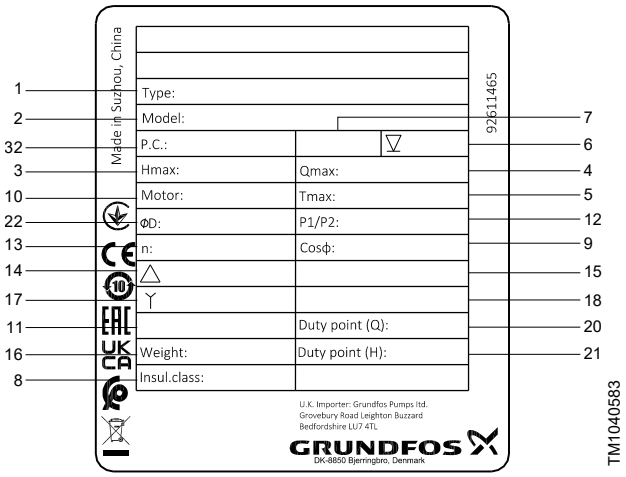
2.1 Nameplate

Fix the extra nameplate supplied with the product at the installation site or production location, so the data can be checked when necessary. Make sure that the nameplate is visible.

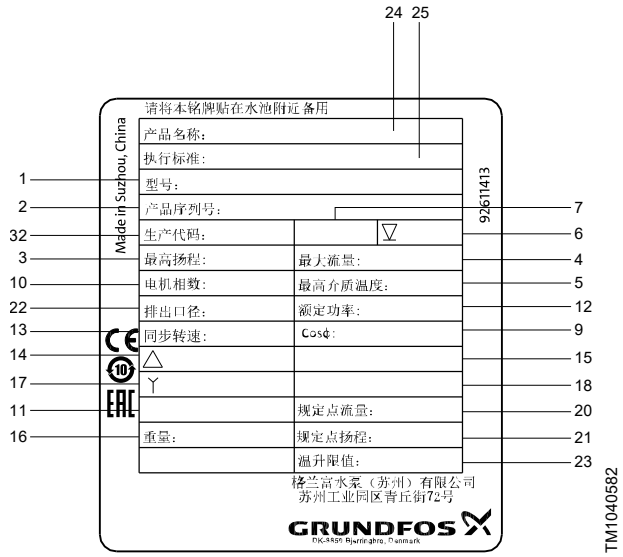
The nameplate is fitted to the top cover of the pump.



Nameplate on product



Nameplate in packaging



Nameplate for products in China

Pos.	Description
1	Type designation
2	Material No. + Serial No.
3	Maximum head [m]
4	Maximum flow [l/s]
5	Maximum liquid temperature [°C]
6	Maximum installation depth [m]
7	Enclosure class
8	Insulation class/temperature class
9	Power factor
10	Number of phases
11	Frequency [Hz]
12	Motor input and output power P1/P2 [kW]
13	Speed [rpm]
14	Rated voltage [V] (delta connection)
15	Rated current [A] (delta connection)
16	Weight [kg]
17	Rated voltage [V] (star connection)
18	Rated current [A] (star connection)
20	Duty point Q [m^3/h]
21	Duty point H [m]
22	Size of flange
23	Temperature rise [K]
24	Product type
25	Company standard
32	Production code (year and week)

2.2 Type key

Note: Pumps are not available in all variants.

2.2.1 DPK

Example: DPK.V.65.80.22.S.4.5.0D.Z

Code	Description	Explanation
DPK	Drainage pump	Pump type
[ ]	Single-channel, semi-open impeller	Impeller type
V	SuperVortex impeller	
65	Maximum solids size [mm]	Free passage
80	Nominal outlet diameter	Pump outlet
22	Output power P2 / 10 22 = 2.2 kW	Power [kW]
[ ]	Standard	Equipment
S	Sensor[1)]	
2	2-pole	No. of poles[2)]
4	4-pole	
5	50 Hz	Frequency [Hz]
0D	380-415 V, DOL	Voltage and starting method[3)]
1D	380-415 V, Y/D	
Z	Custom-built variant	Customization

1) Only for 0.75 to 3.7 kW, except for 3.0 kW.

2) The number of poles is specified only in the type key of the DPK.V model and does not apply to other pump type keys.

3) Exception: variant voltage ex) 46=460V

3. Product selection

3.1 Ordering a pump

Prior to ordering a pump, consider the following:

- pump type
- custom-built variant (option)
- accessories
- controller
- installation type
- outlet connection type.

Application	DPK	DPK.V
Groundwater	●	-
Drainage and surface water	●	-
Effluent	-	●
Screened sewage	-	●
Drainage and surface water with small impurities	●	-
Industrial process water without solids and fibres	●	-
Industrial process water with small solids and fibres	-	●

Once the pump type is selected, the most suitable pump can be identified. See sections Product Range and Type key. The list below shows a detailed description of an ordered product:

Pump	Product number
DPK.10.50.075.5.0D	96884078

- Pump as specified in the type key
- 10 m cable.
- Paint: NCS S9000-N (black), gloss code 35, thickness 100 µm.
- Tested according to ISO 9906:2012, grade 3B.
- Bimetallic thermal switch for motor overheating detection.

DPK pumps up to 2.2 kW are supplied with ring stand for free-standing installation. Larger DPK pumps are supplied without ring stand. For these pumps, ring stand, elbow or auto coupling must be ordered as accessories.

Note: As standard, DPK pumps have no outlet connection. If an installation connection is required, order an adapter, e.g. a DIN or JIS-ANSI outlet elbow, see section Accessories.

For selection of a standard pump, see section Performance curves and Technical data.

Note: Product specific data can be found in Grundfos Product Center at www.grundfos.com.

3.1.1 Custom-built variants

The pumps can be customized to meet individual requirements. Several pump features and options are available for customization, such as voltage, various cable lengths and special materials.

For an overview, see section Variants. For requirements or designs not mentioned in the table, contact Grundfos.

3.1.2 Accessories

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

Note: Accessories are not fitted.

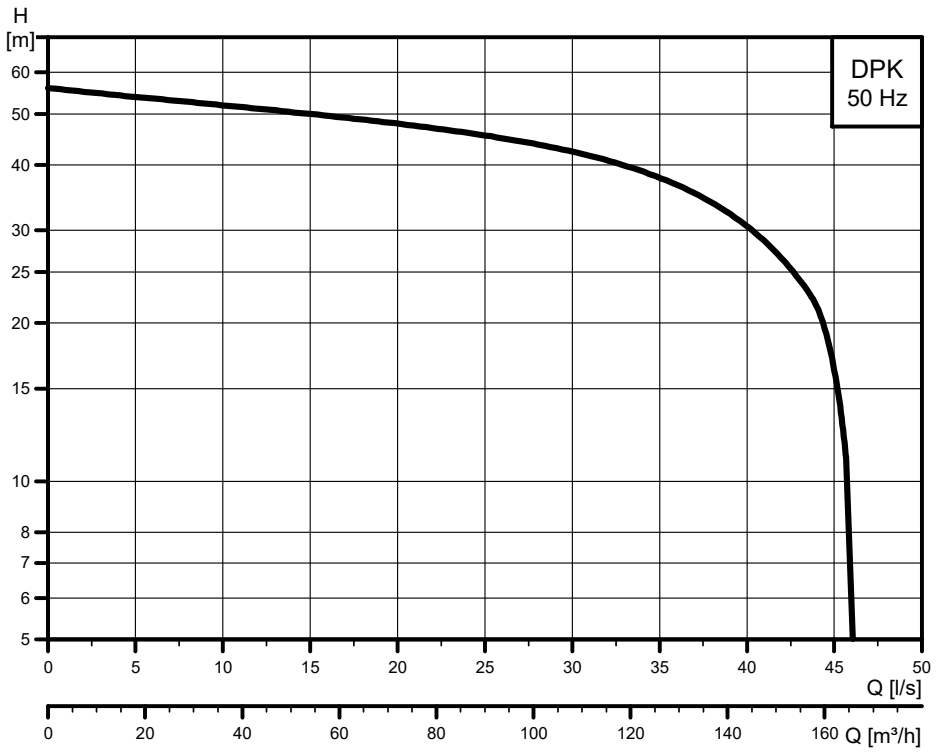
3.1.3 Monitoring units and controllers

The following monitoring units and controllers are available:

- GU01 (control system)
- GU02 (control system)
- LC 231 level controller with integrated motor protection
- LC 241 level controller a cabinet solution allowing setup customisation.

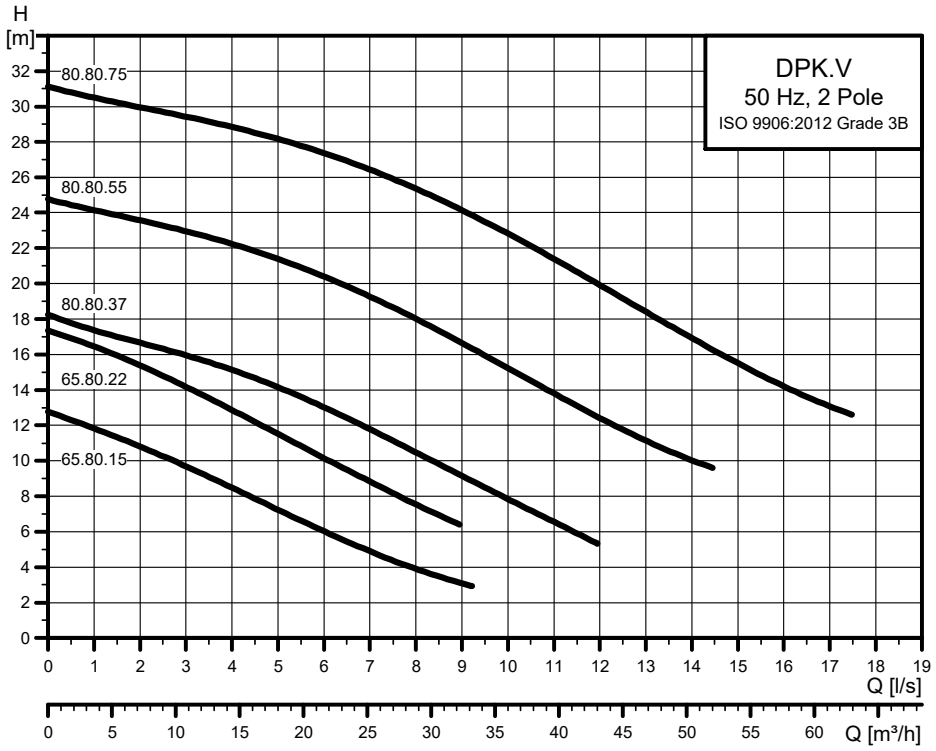
4. Performance range

4.1 Performance ranges



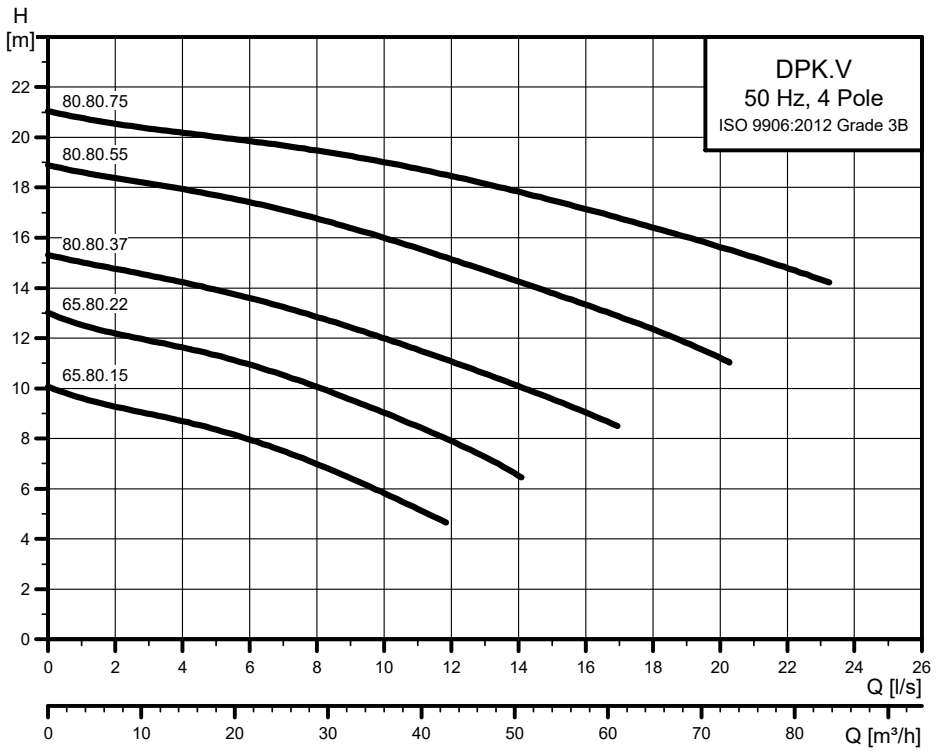
TM042859

Performance range, DPK



TM065855

Performance range, DPK.V, 2-pole



TM065856

Performance range, DPK.V, 4-pole

Pump	Type
DPK	DPK.10.50.075.5
	DPK.10.50.15.5
	DPK.10.80.22.5
	DPK.15.80.30.5
	DPK.15.80.37.5
	DPK.15.80.55.5
	DPK.15.100.75.5
	DPK.20.100.110.5
	DPK.20.100.150.5
	DPK.20.150.190.5
	DPK.20.150.220.5
DPK.V	DPK.V.65.80.15.2
	DPK.V.65.80.15.4.5
	DPK.V.65.80.22.2.5
	DPK.V.65.80.22.4.5
	DPK.V.80.80.37.2.5
	DPK.V.80.80.37.4.5
	DPK.V.80.80.55.2.5
	DPK.V.80.80.55.4.5
	DPK.V.80.80.75.2.5
	DPK.V.80.80.75.4.5

5. Product range

5.1 DPK

Pump type	Voltage	Starting method	Thermal protection	Impeller type	Product number
DPK.10.50.075.5.0D	3 × 380-415 V Y	DOL	PTO	Semi-open	96884078
DPK.10.50.15.5.0D	3 × 380-415 V Y	DOL	PTO	Semi-open	96884080
DPK.10.80.22.5.0D	3 × 380-415 V Y	DOL	PTO	Semi-open	96884112
DPK.15.80.30.5.0D	3 × 380-415 V Y	DOL	PTO	Semi-open	99478794
DPK.15.80.37.5.0D	3 × 380-415 V Y	DOL	PTO	Semi-open	96884114
DPK.15.80.55.5.0D	3 × 380-415 V Y	DOL	PTO	Semi-open	96884086
DPK.15.80.55.5.1D	3 × 380-415 V Y	Y/D	PTO	Semi-open	96926030
DPK.15.100.75.5.0D	3 × 380-415 V Y	DOL	PTO	Semi-open	96884088
DPK.15.100.75.5.1D	3 × 380-415 V Y	Y/D	PTO	Semi-open	96926032
DPK.20.100.110.5.0D	3 × 380-415 V Y	DOL	PTO	Semi-open	96884090
DPK.20.100.110.5.1D	3 × 380-415 V Y	Y/D	PTO	Semi-open	96926034
DPK.20.100.150.5.0D	3 × 380-415 V Y	DOL	PTO	Semi-open	96884092
DPK.20.100.150.5.1D	3 × 380-415 V Y	Y/D	PTO	Semi-open	96926036
DPK.20.150.190.5.1D	3 × 380-415 V D	Y/D	Klixon 17AM	Semi-open	96884093
DPK.20.150.220.5.1D	3 × 380-415 V D	Y/D	Klixon 17AM	Semi-open	96884094

5.2 DPK.V

Pump type	Voltage	Starting method	Thermal protection	Impeller type	Product number
DPK.V.65.80.15.2.5.0D	3 × 380-415 V Y	DOL	PTO	SuperVortex	98913685
DPK.V.65.80.15.4.5.0D	3 × 380-415 V Y	DOL	PTO	SuperVortex	98946548
DPK.V.65.80.22.2.5.0D	3 × 380-415 V Y	DOL	PTO	SuperVortex	98913687
DPK.V.65.80.22.4.5.0D	3 × 380-415 V Y	DOL	PTO	SuperVortex	98946550
DPK.V.80.80.37.2.5.0D	3 × 380-415 V Y	DOL	PTO	SuperVortex	98803749
DPK.V.80.80.37.4.5.0D	3 × 380-415 V Y	DOL	PTO	SuperVortex	98925411
DPK.V.80.80.55.2.5.0D	3 × 380-415 V Y	DOL	PTO	SuperVortex	98803751
DPK.V.80.80.55.2.5.1D	3 × 380-415 V Y	Y/D	PTO	SuperVortex	98803753
DPK.V.80.80.55.4.5.0D	3 × 380-415 V Y	DOL	PTO	SuperVortex	98925413
DPK.V.80.80.55.4.5.1D	3 × 380-415 V Y	Y/D	PTO	SuperVortex	98925415
DPK.V.80.80.75.2.5.0D	3 × 380-415 V Y	DOL	PTO	SuperVortex	98803755
DPK.V.80.80.75.2.5.1D	3 × 380-415 V Y	Y/D	PTO	SuperVortex	98803757
DPK.V.80.80.75.4.5.0D	3 × 380-415 V Y	DOL	PTO	SuperVortex	98925417
DPK.V.80.80.75.4.5.1D	3 × 380-415 V Y	Y/D	PTO	SuperVortex	98925419

6. Variants

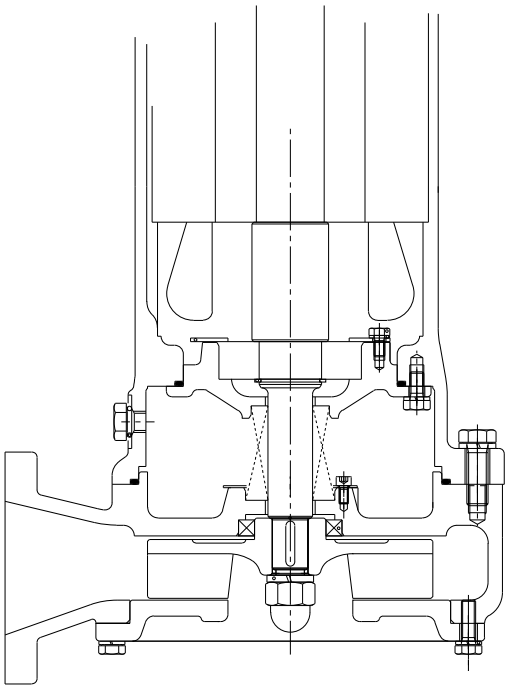
6.1 List of variants

Note: Not all variants are available for all types of pumps

Motor		
Various cable sizes	Cable length depends on motor size and main supply.	10 m
		15 m
		20 m
		25 m
		30 m
Special motor	Insulation class H (180 °C)	Contact Grundfos
	Temperature rise class B (80 °C)	Contact Grundfos
Special voltage	220 - 240 V and other special voltage	Contact Grundfos
Motor protection		
Motor winding (only for 19 and 22 kW)	1 × Pt100	Contact Grundfos
Seal sensor	1 × Electrode type	Contact Grundfos
Bearing sensor (only for 19 and 22 kW)	1 × Pt100 in lower bearing	Contact Grundfos
Material		
Impeller	Stainless steel 304, 316, 316L / Ductile cast iron A536-65-45-12 / Hi-Cr / Duplex SS grade 1A	Contact Grundfos
Inlet cover and pump casing (only for 19 and 22 kW)	Stainless steel 304, 316, 316L	Contact Grundfos
Coating (only for 19 and 22 kW)	According to EN 12944 IM2	Contact Grundfos
Motor shaft (only for 19 and 22 kW)	Stainless steel 410	Contact Grundfos
Motor housing (only for 19 and 22 kW)	Stainless steel 304	Contact Grundfos
Tests		
Test at specified duty point on standard impeller curve	ISO 9906:2012 grade 2B	
Additional test of entire QH curve		Contact Grundfos
Different test standard		Contact Grundfos
Witness test		Contact Grundfos
Other variants		Contact Grundfos

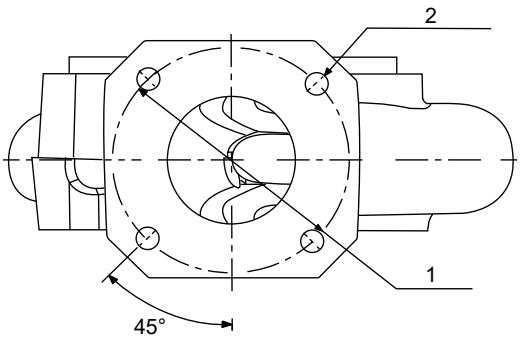
7. Design

7.1 Outlet connections



TM044735

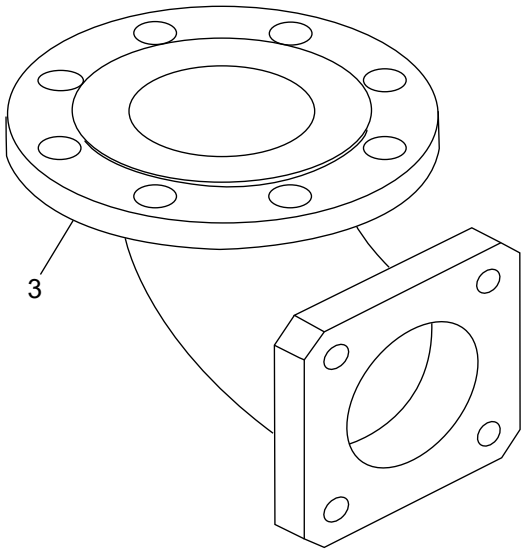
Outlet connection



TM069726

Discharge connection on pump housing

Pos.	Description
1	PCD
2	4 × bolt size



TM069727

Flange connection on elbow

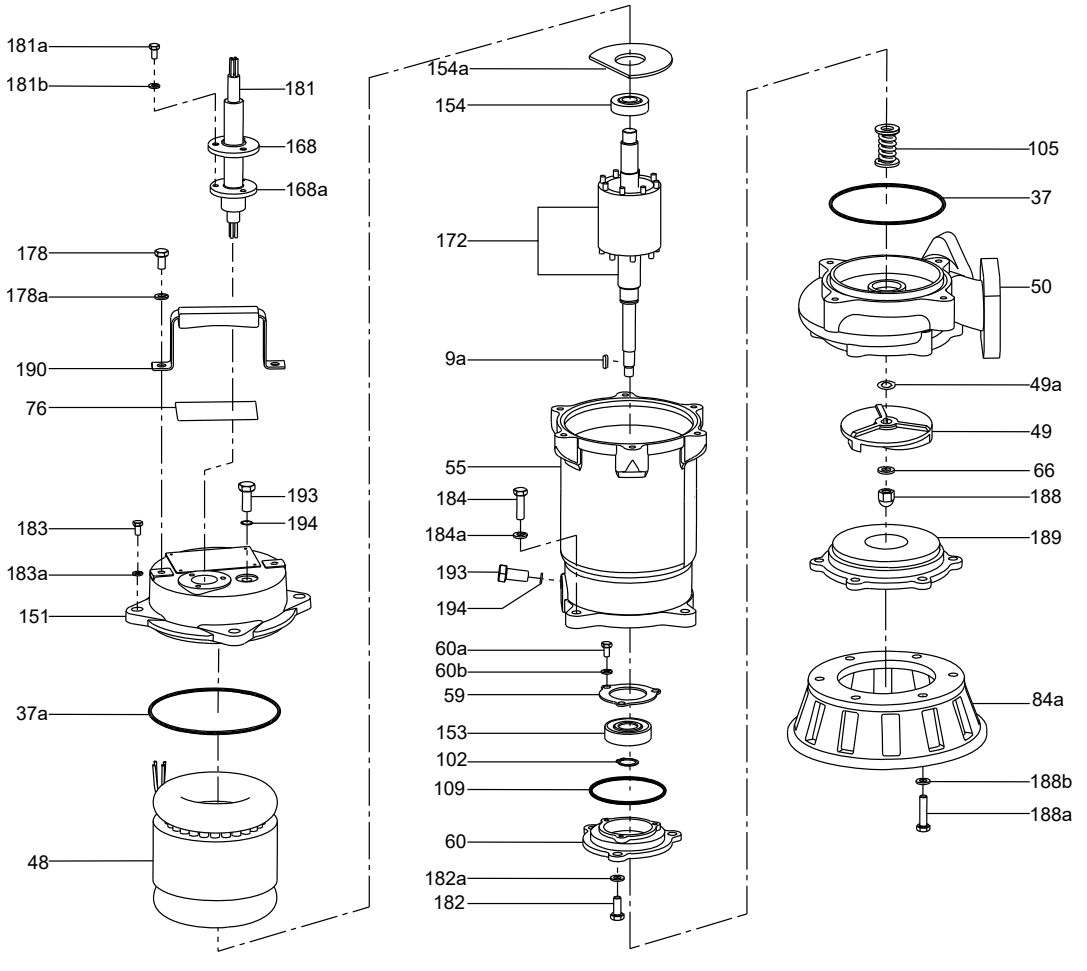
Pos.	Description
3	DN norm flange

Outlet flange	Holes for bolts	PCD [mm]
DN 50	4 × M10	92
DN 80	4 × M12	130
DN 100	4 × M16	165
DN 150	4 × ∅ 23	230

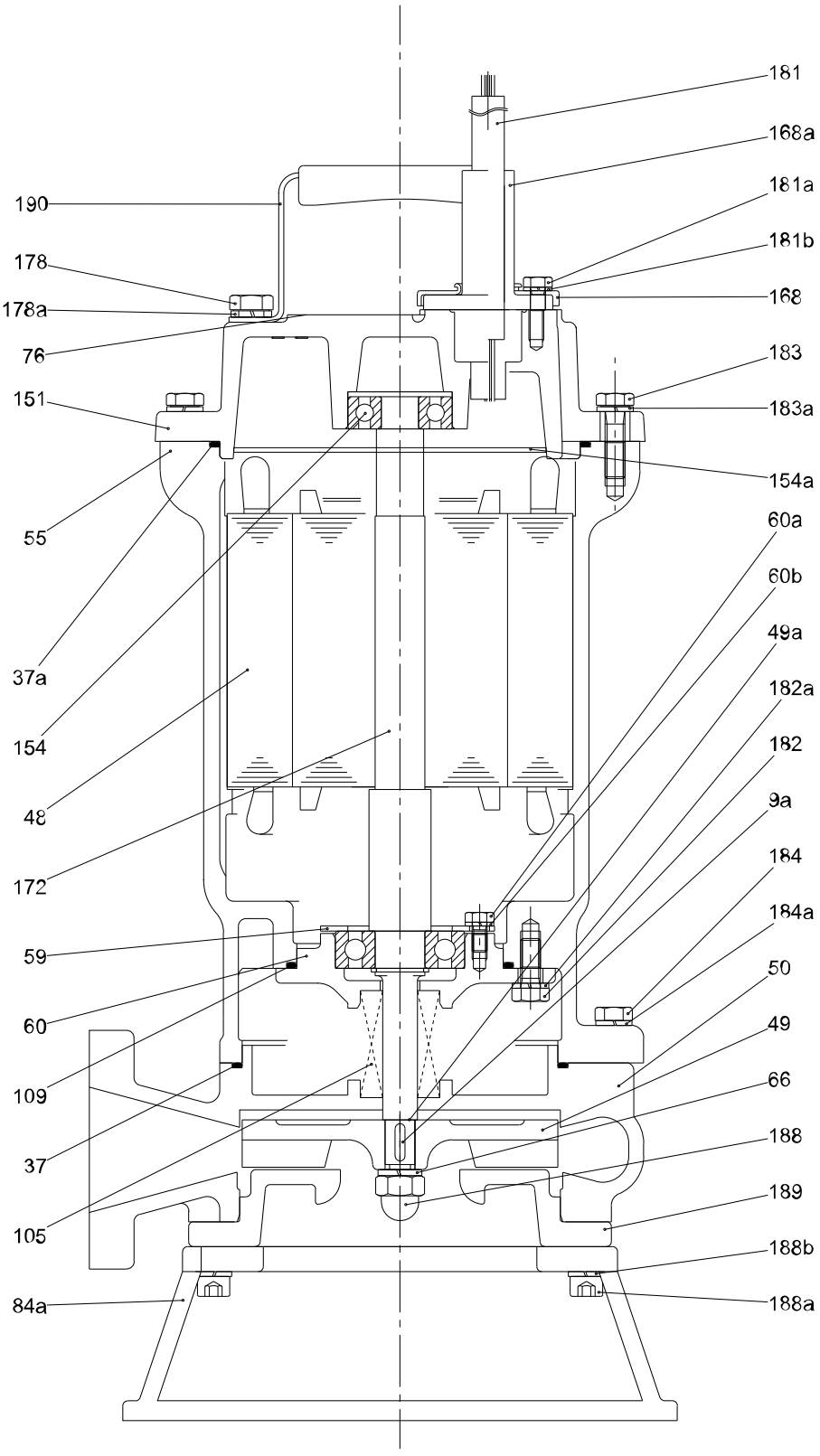
Note: Discharge elbows needs to be ordered as a separate accessory.

7.2 Exploded views and sectional drawings

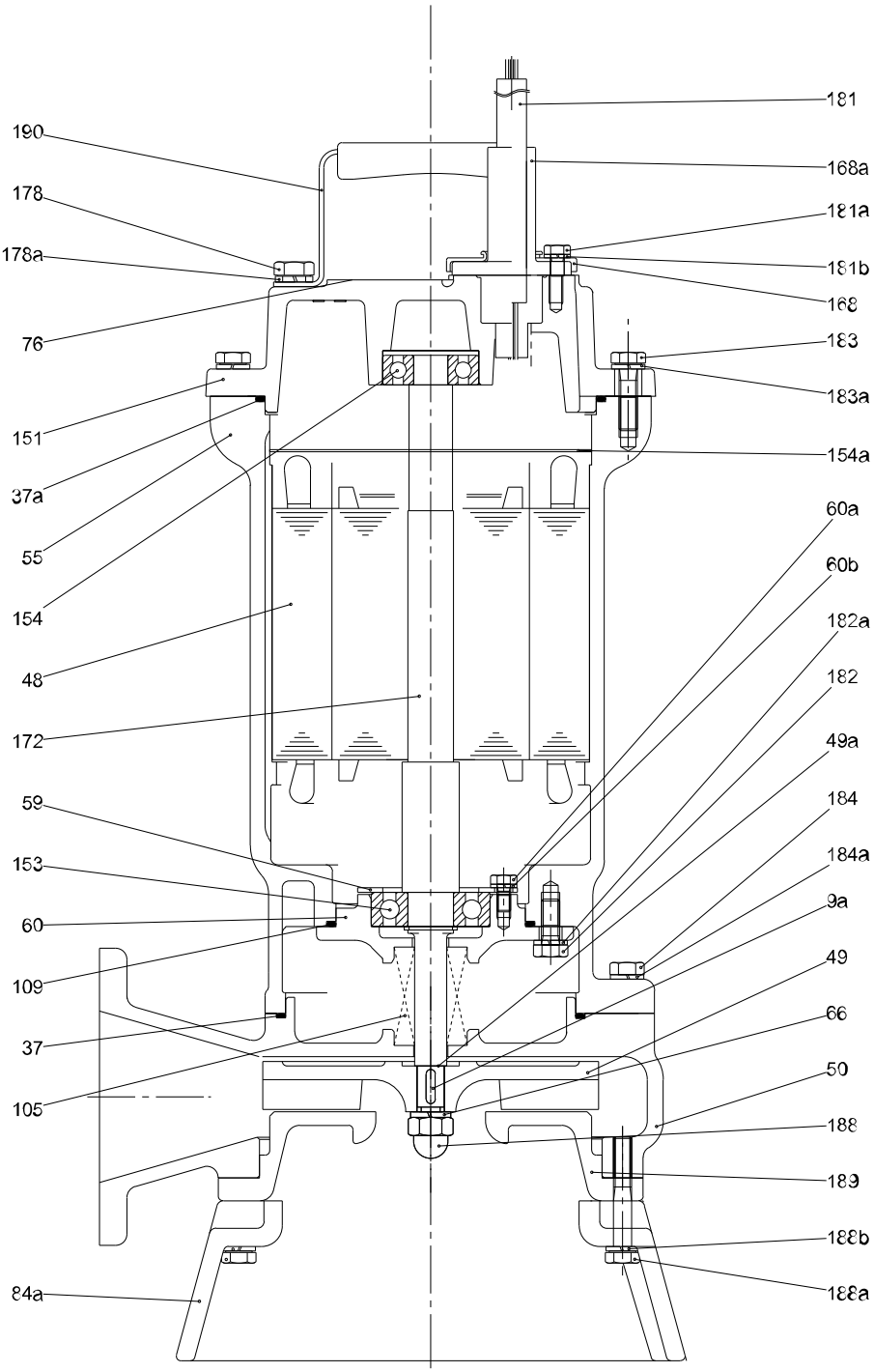
7.2.1 DPK



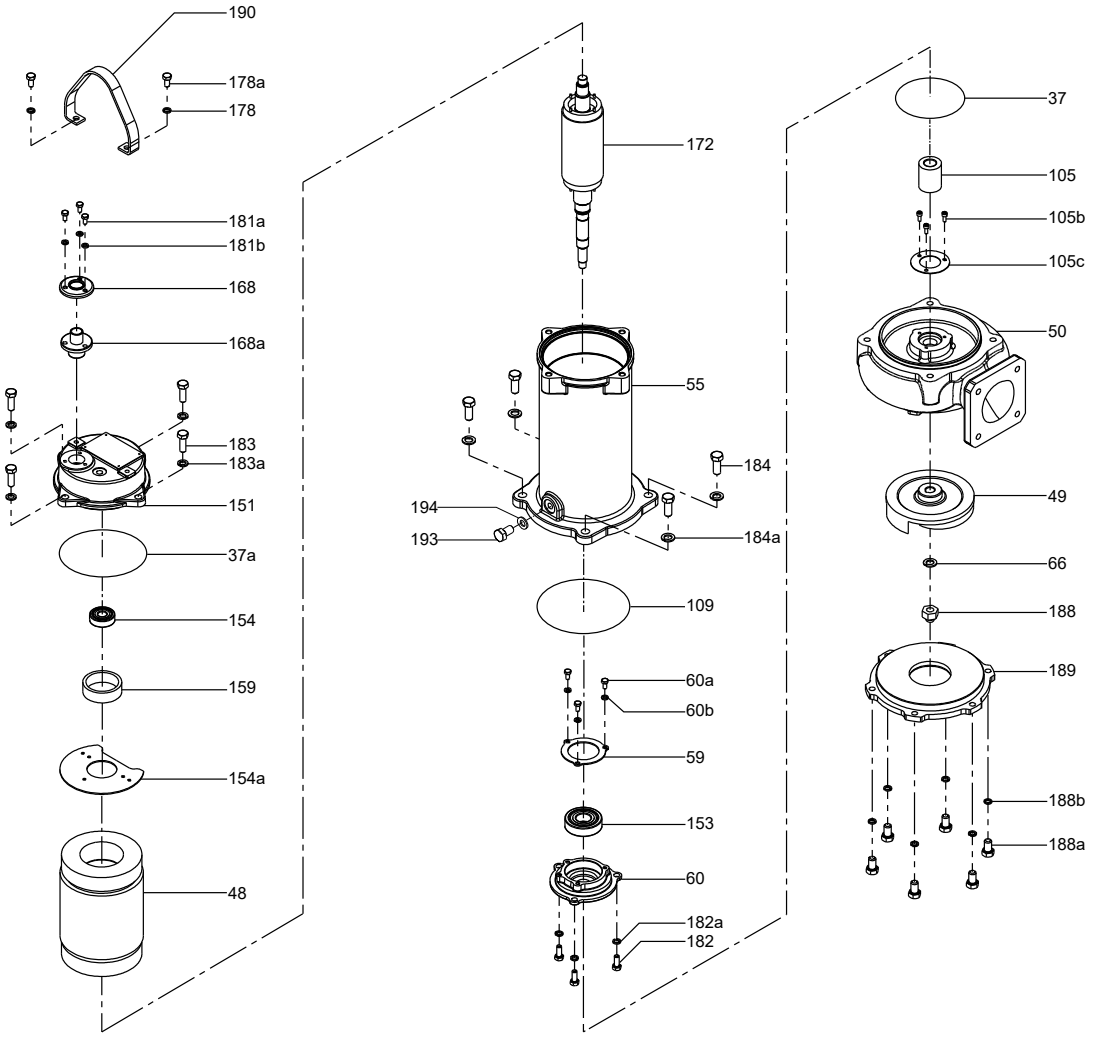
Exploded view, DPK.10.50.075, DPK.10.50.15 and DPK.10.80.22



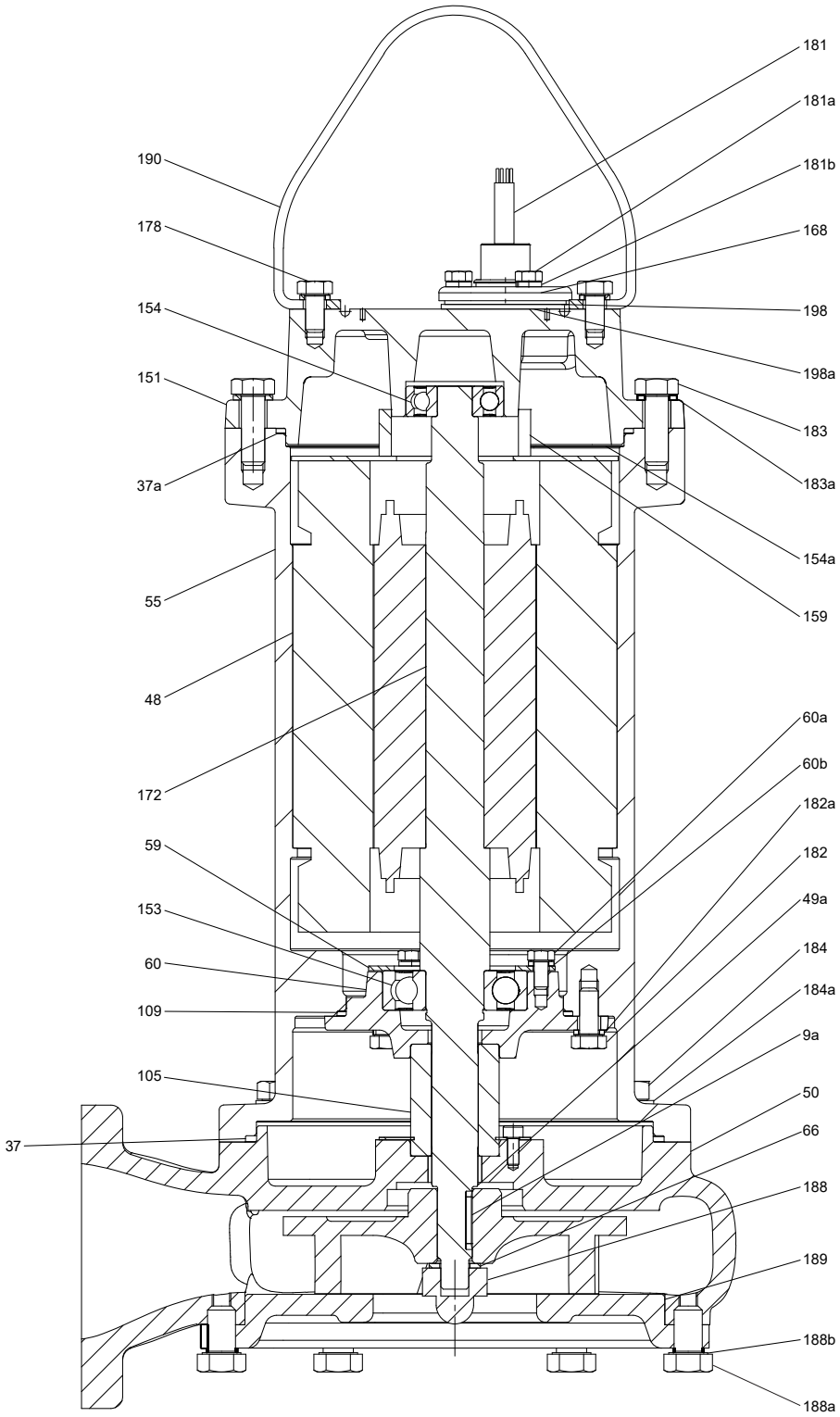
Sectional drawing, DPK.10.50.075 and DPK.10.50.15



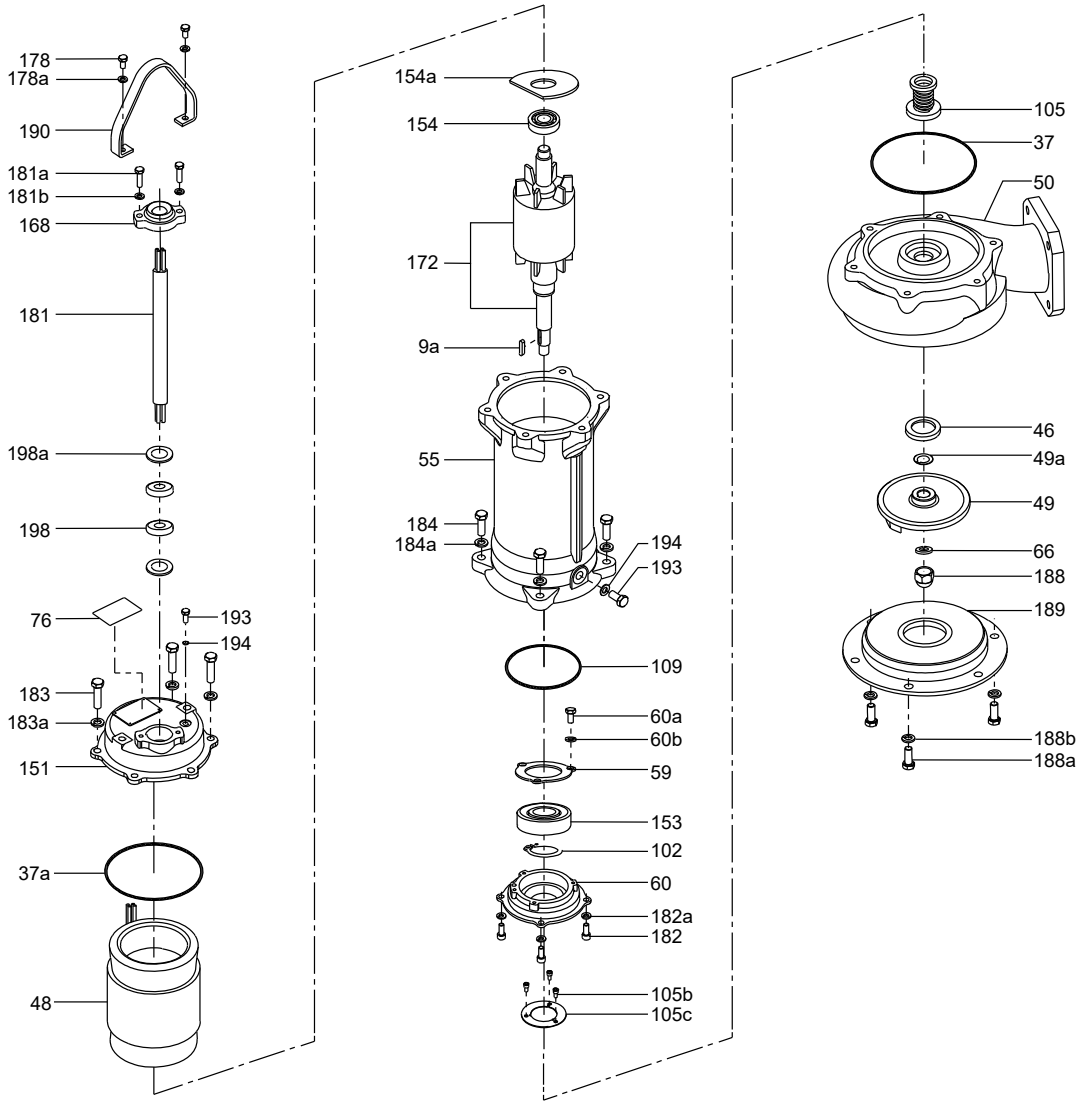
Sectional drawing, DPK.10.80.22



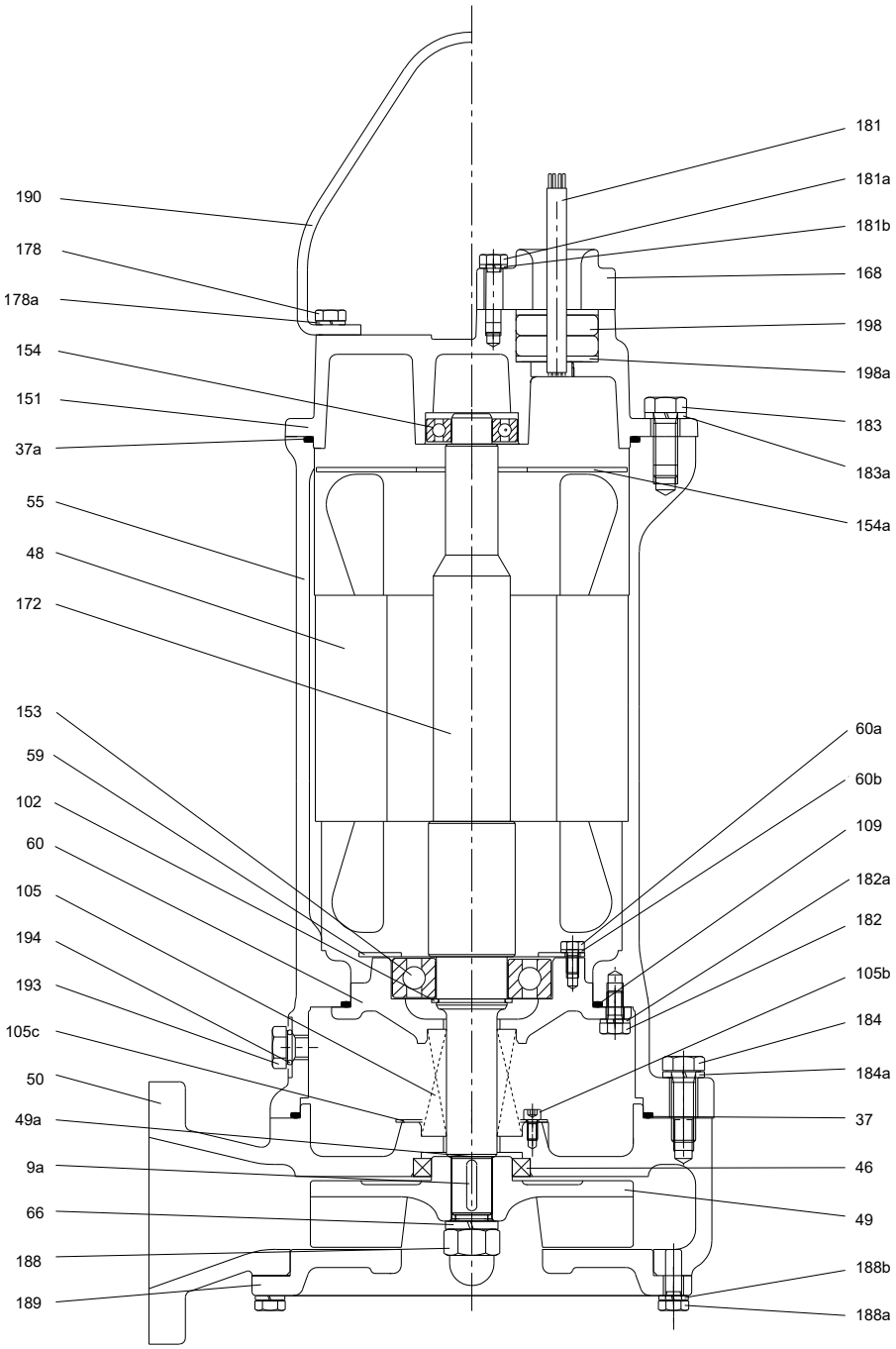
Exploded view, DPK.15.80.30



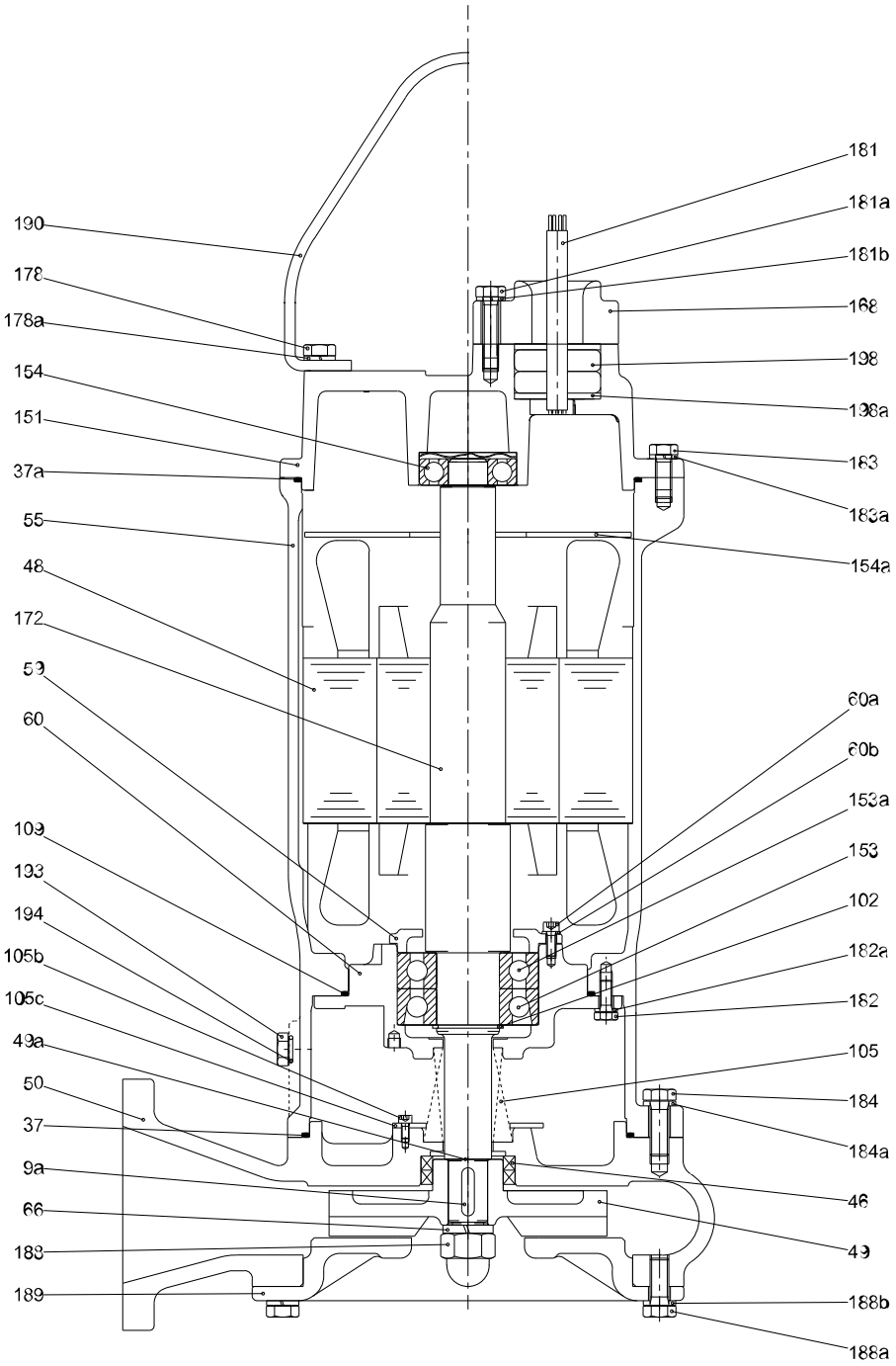
Sectional drawing, DPK.15.80.30



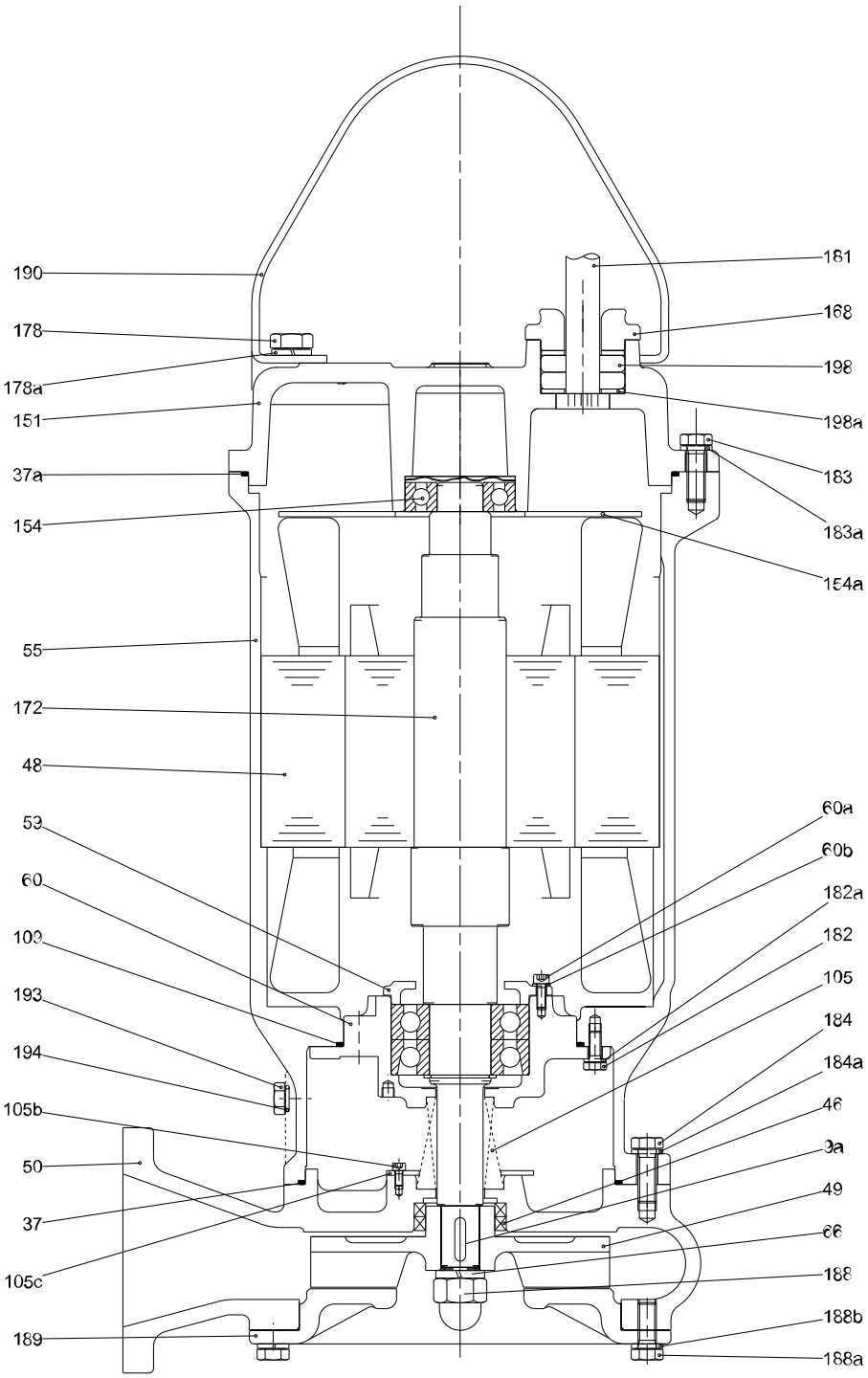
Exploded view, DPK.15.80.37, DPK.15.100.55, DPK.15.100.75, DPK.20.100.110 and DPK.20.100.150



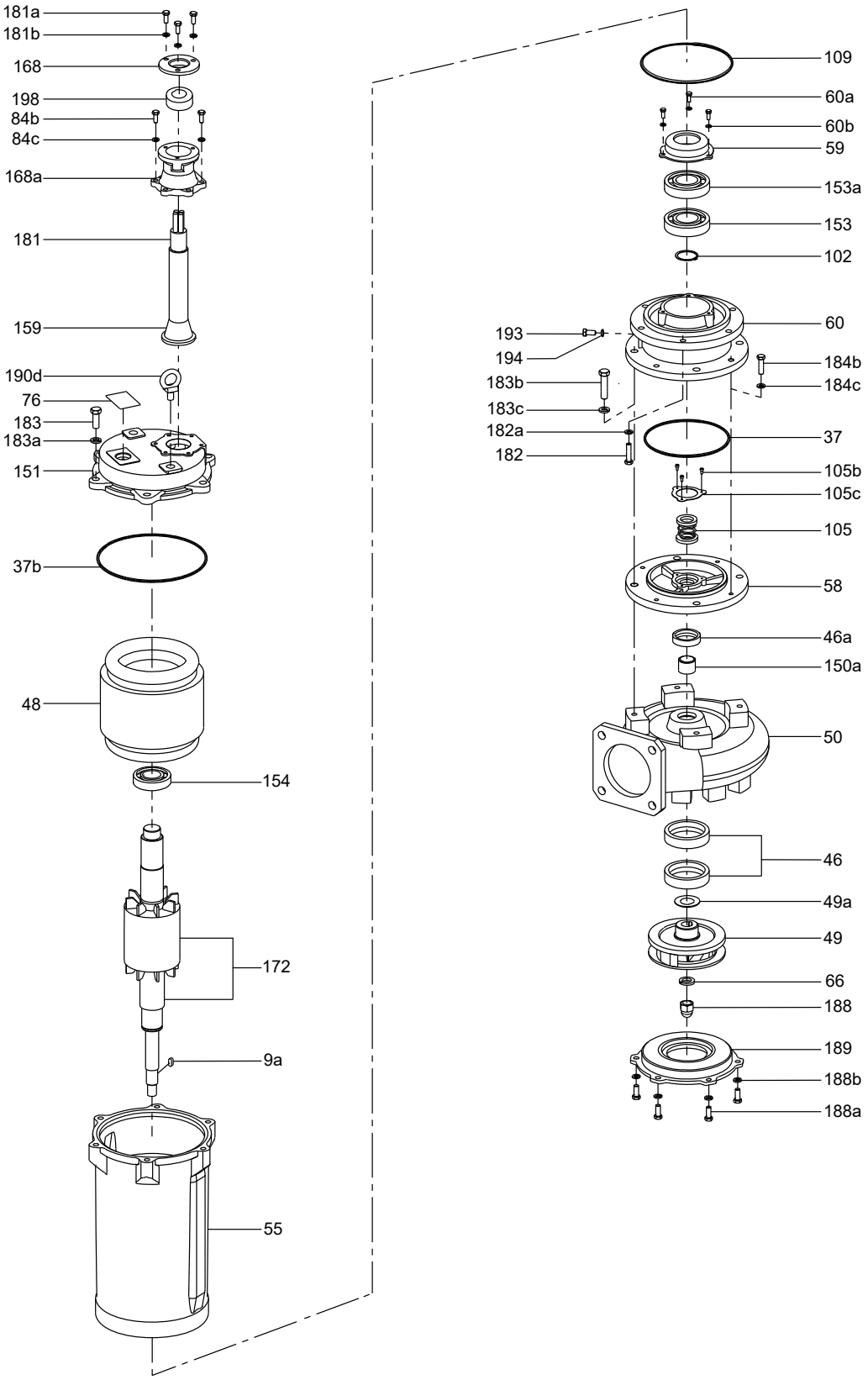
Sectional drawing, DPK.15.80.37



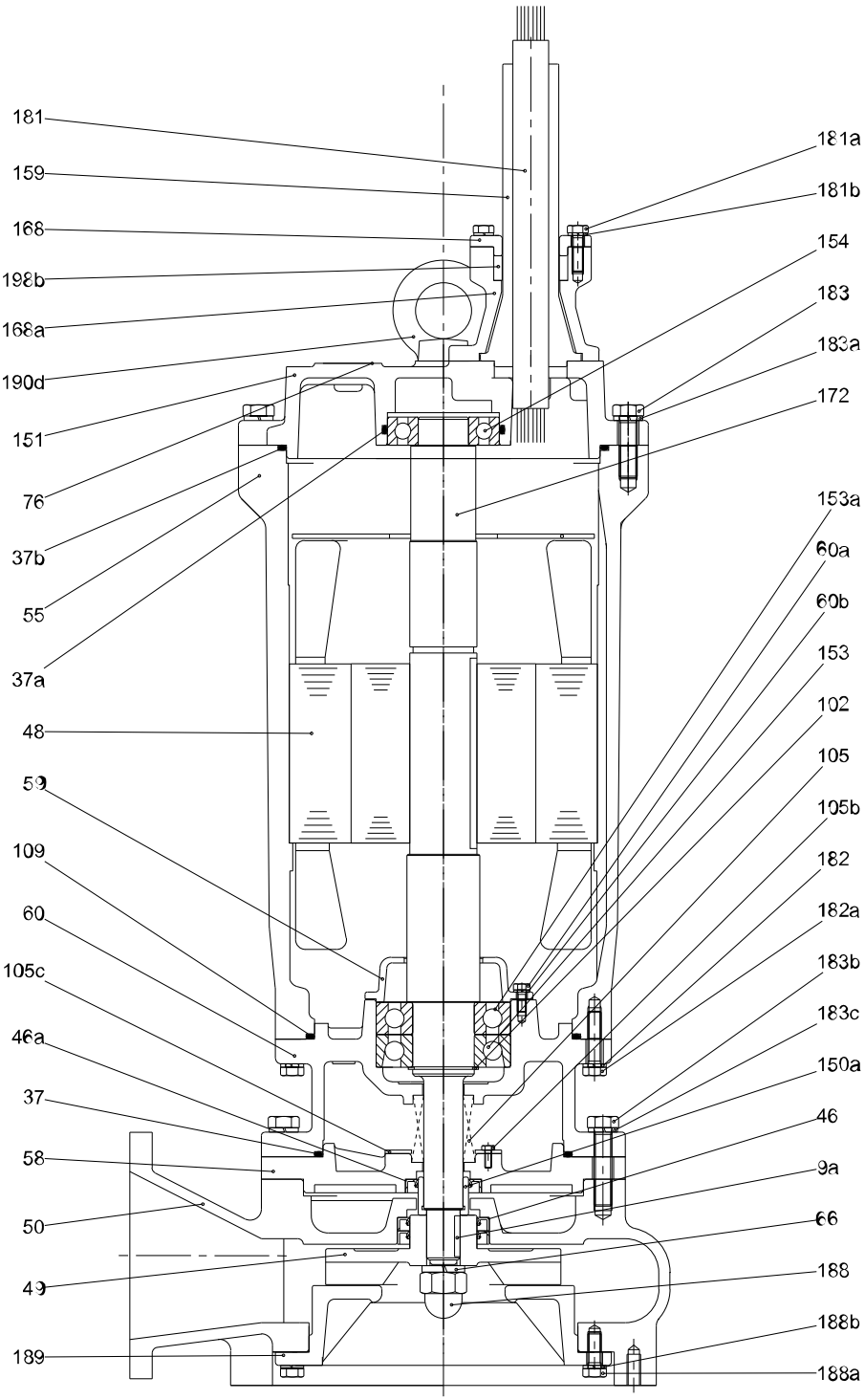
Sectional drawing, DPK.15.80.55 and DPK.15.100.75



Sectional drawing, DPK.20.100.110 and DPK.20.100.150

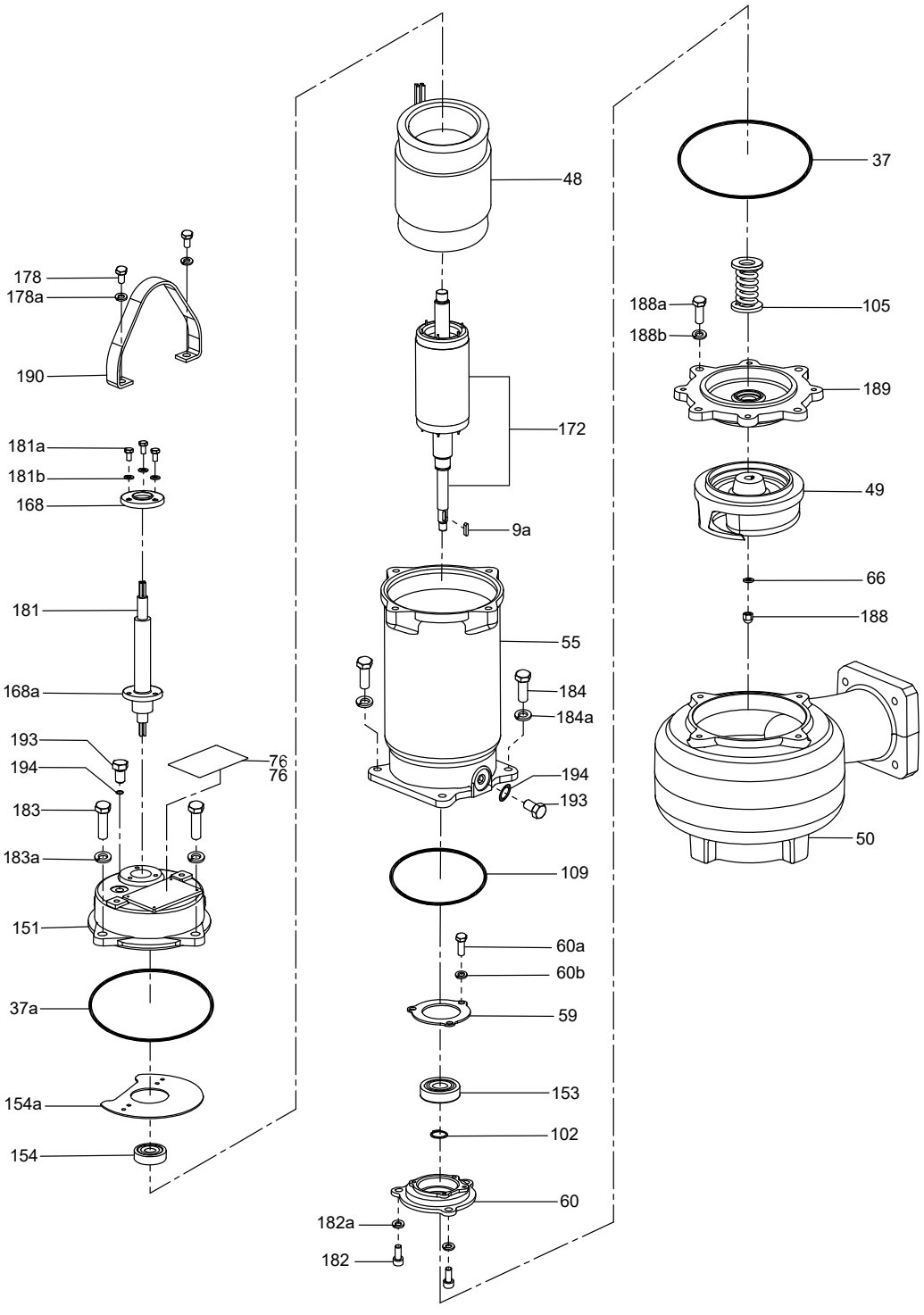


Exploded view, DPK.20.150.190 and DPK.20.150.220

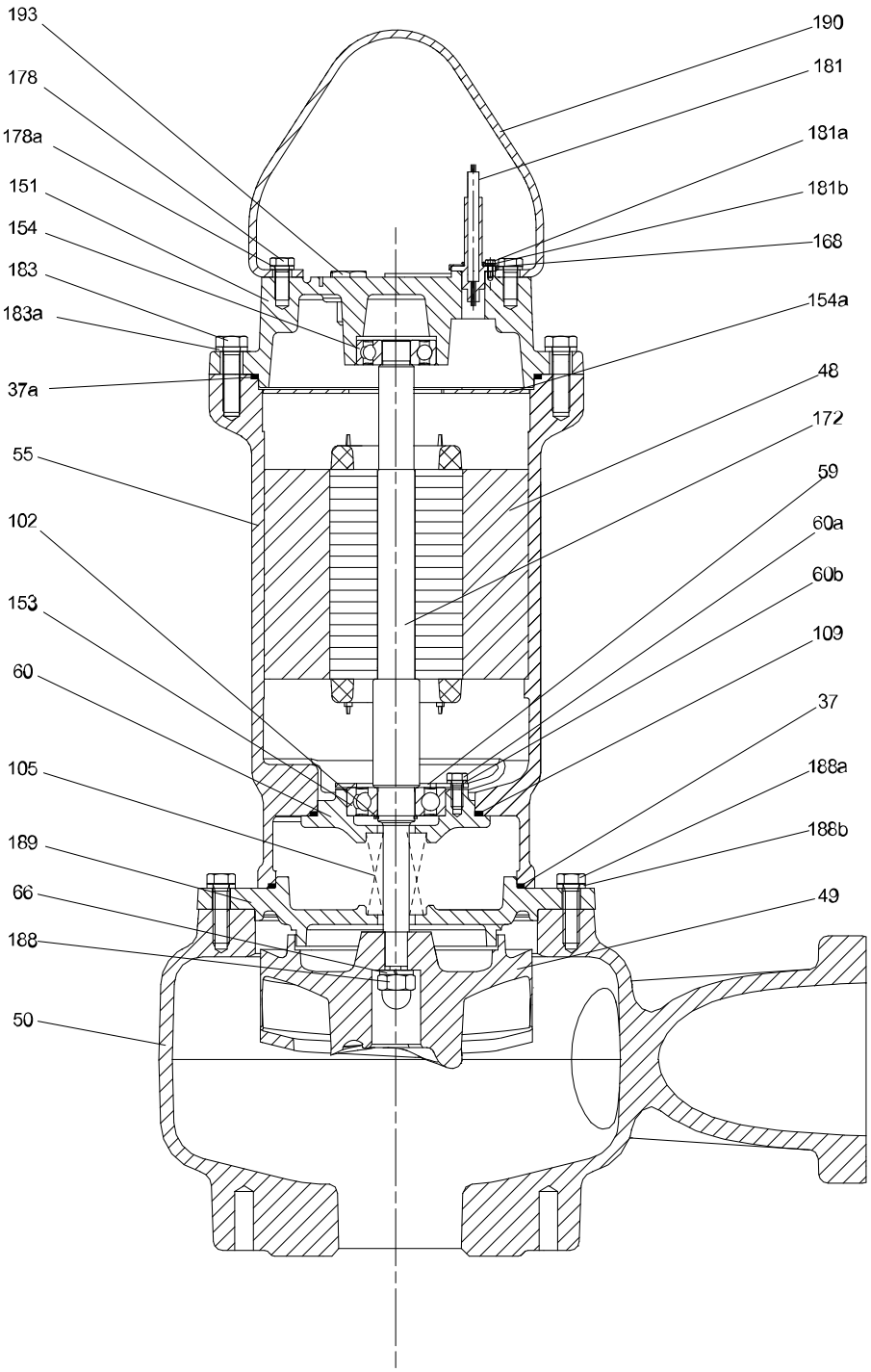


Sectional drawing, DPK.20.150.190 and DPK.20.150.220

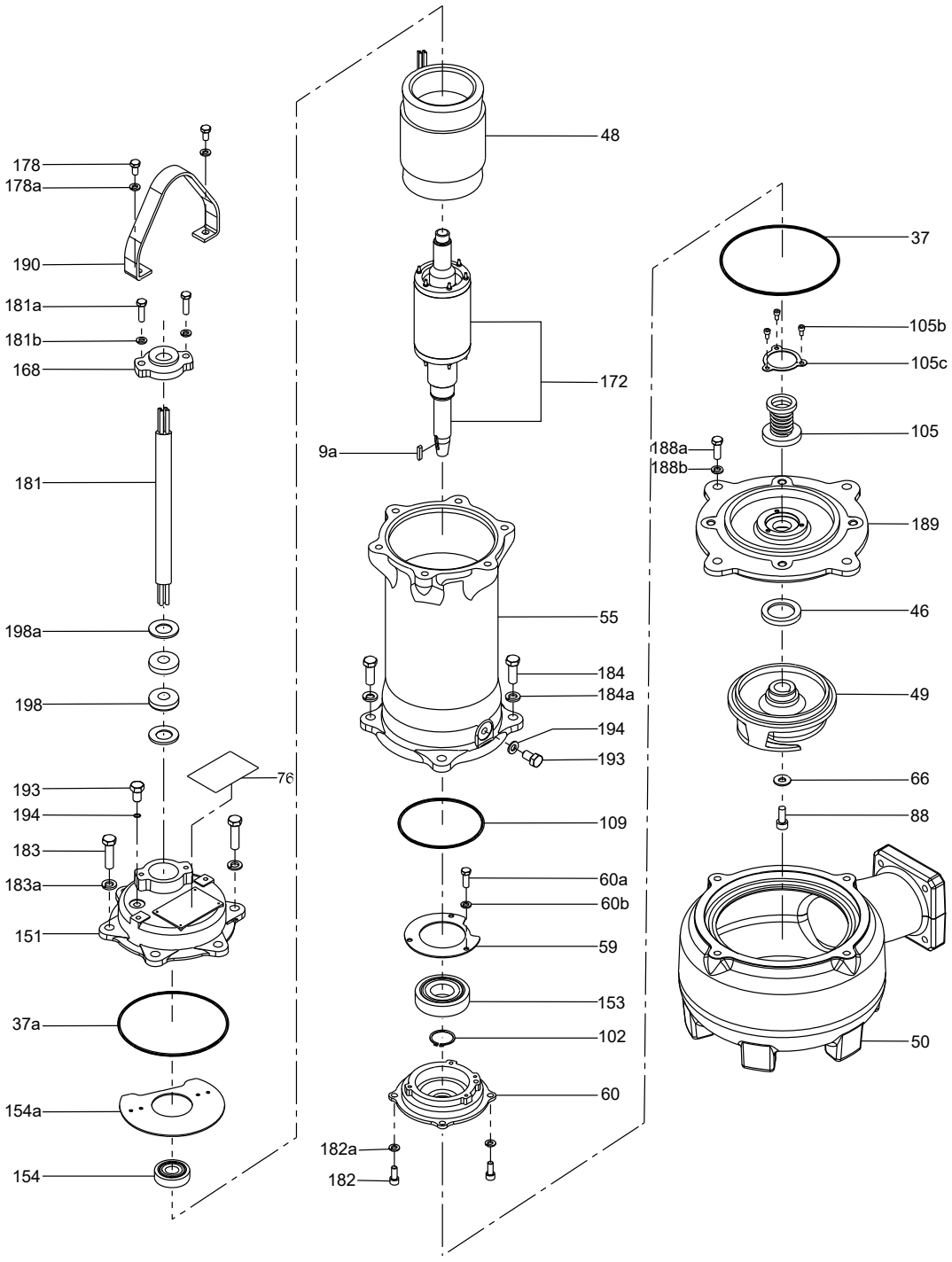
7.2.2 DPK.V



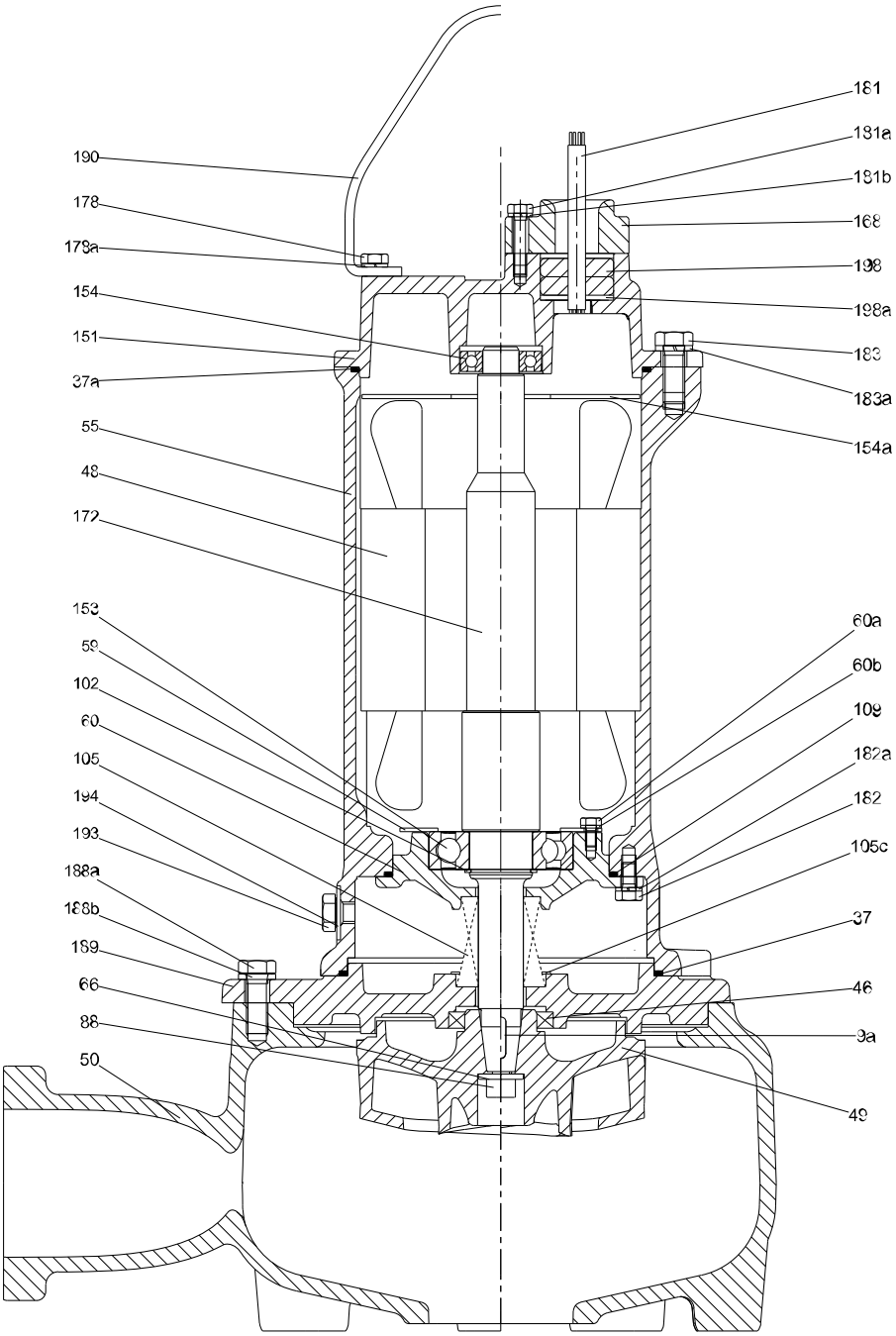
Exploded view, DPK.V.65.80.15.2 and DPK.V.65.80.22.2



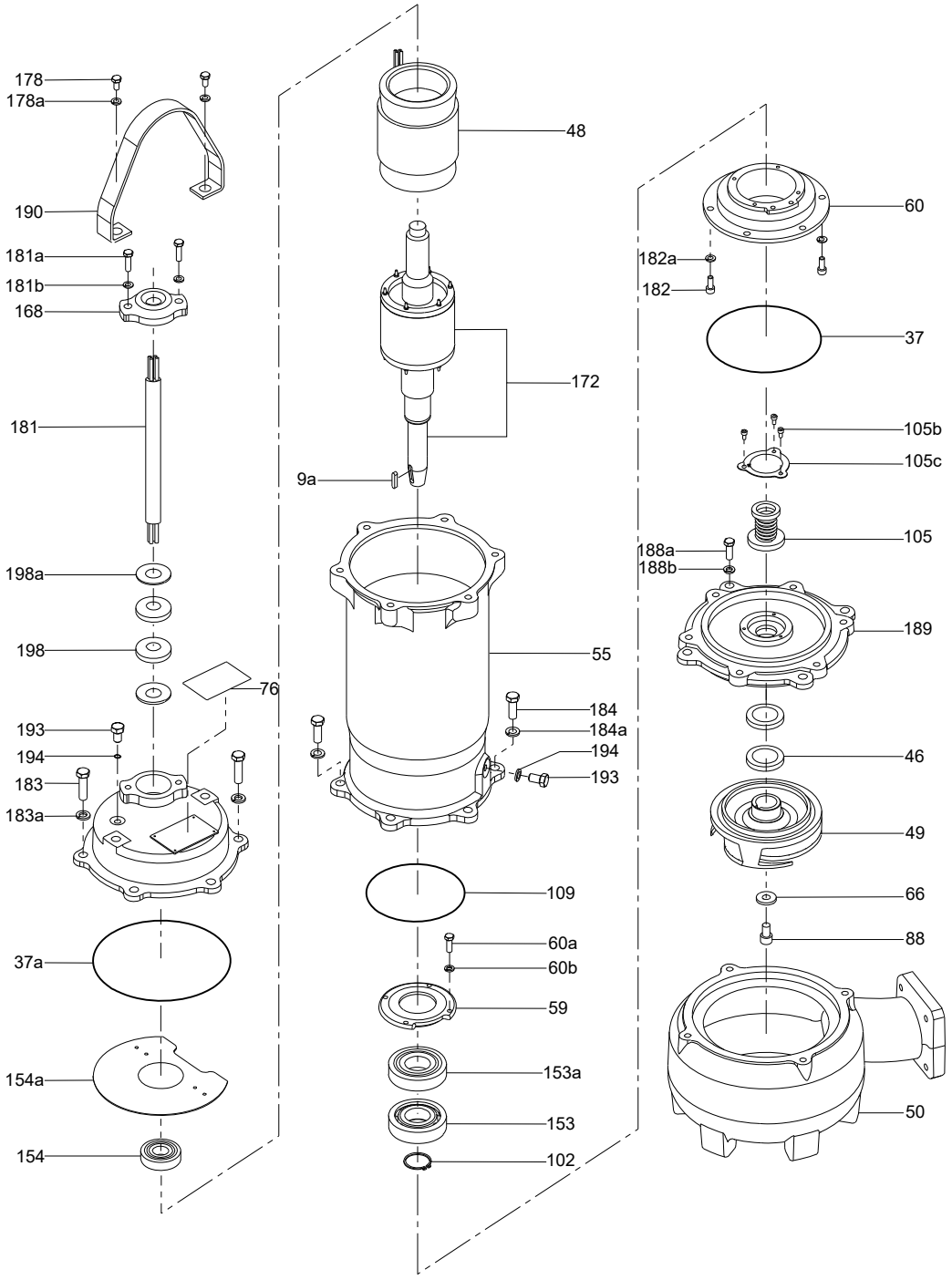
Sectional drawing, DPK.V.65.80.15.2 and DPK.V.65.80.22.2



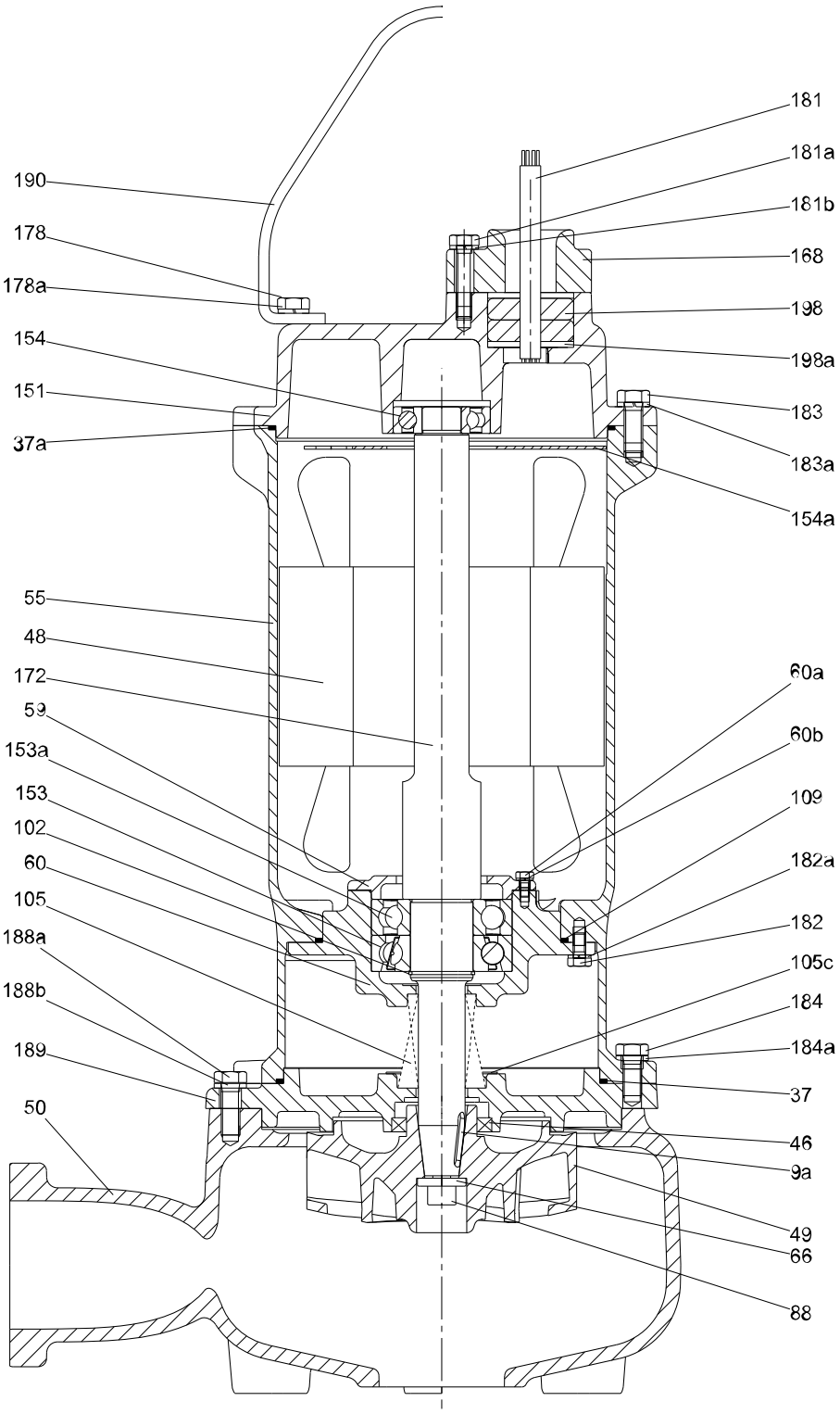
Exploded view, DPK.V.80.80.37.2



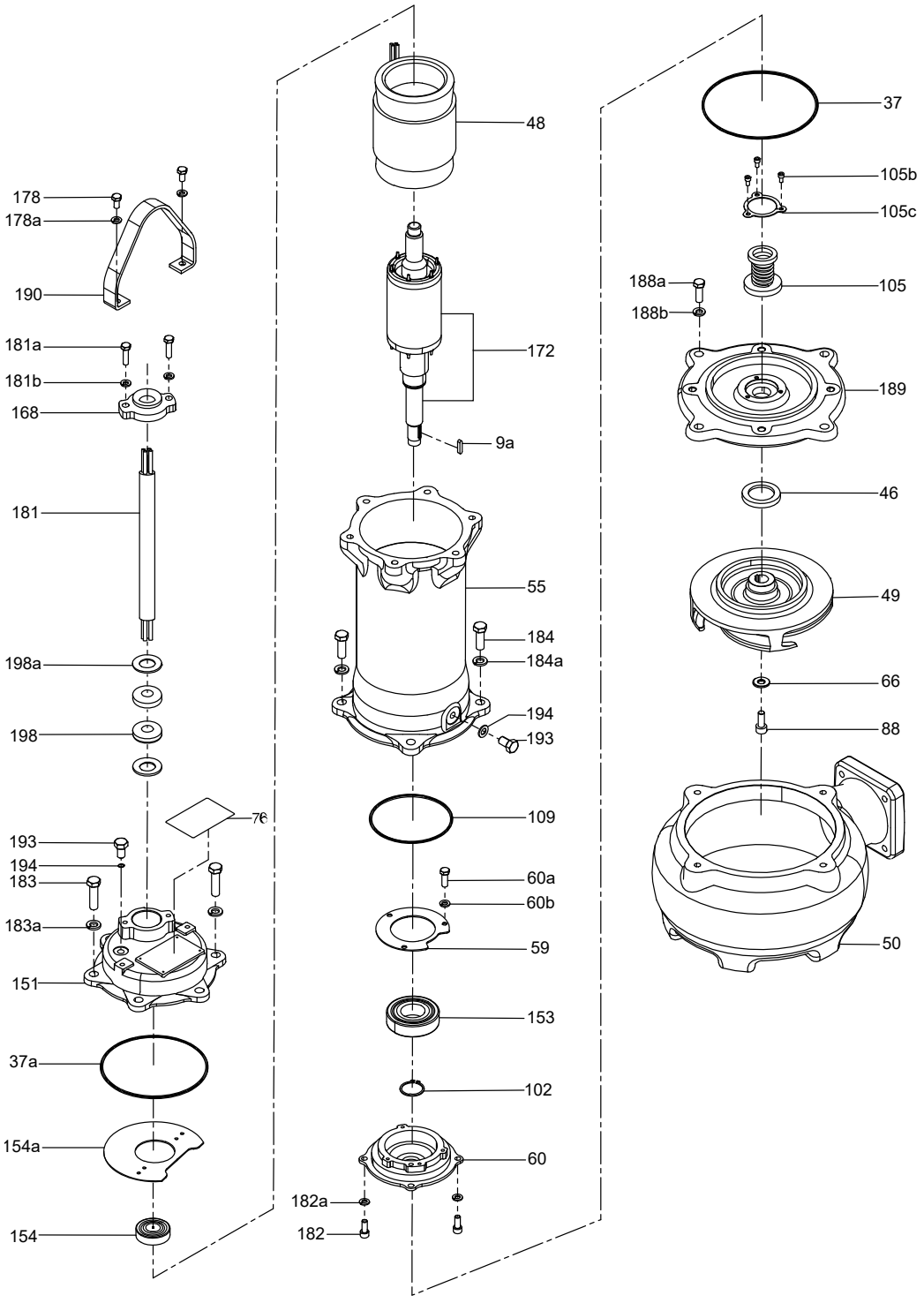
Sectional drawing, DPK.V.80.80.37.2



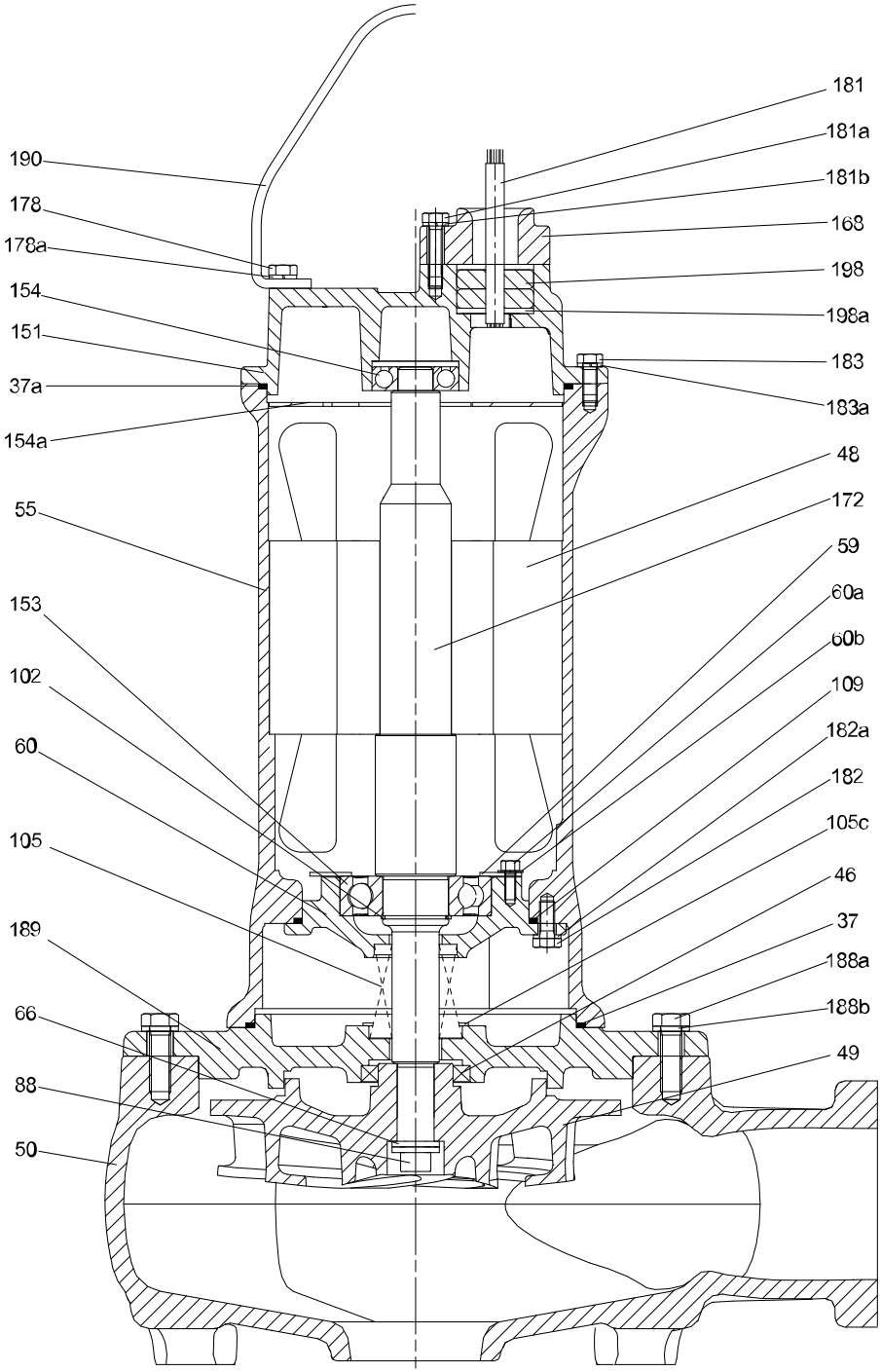
Exploded view, DPK.V.80.80.55.2 and DPK.V.80.80.75.2



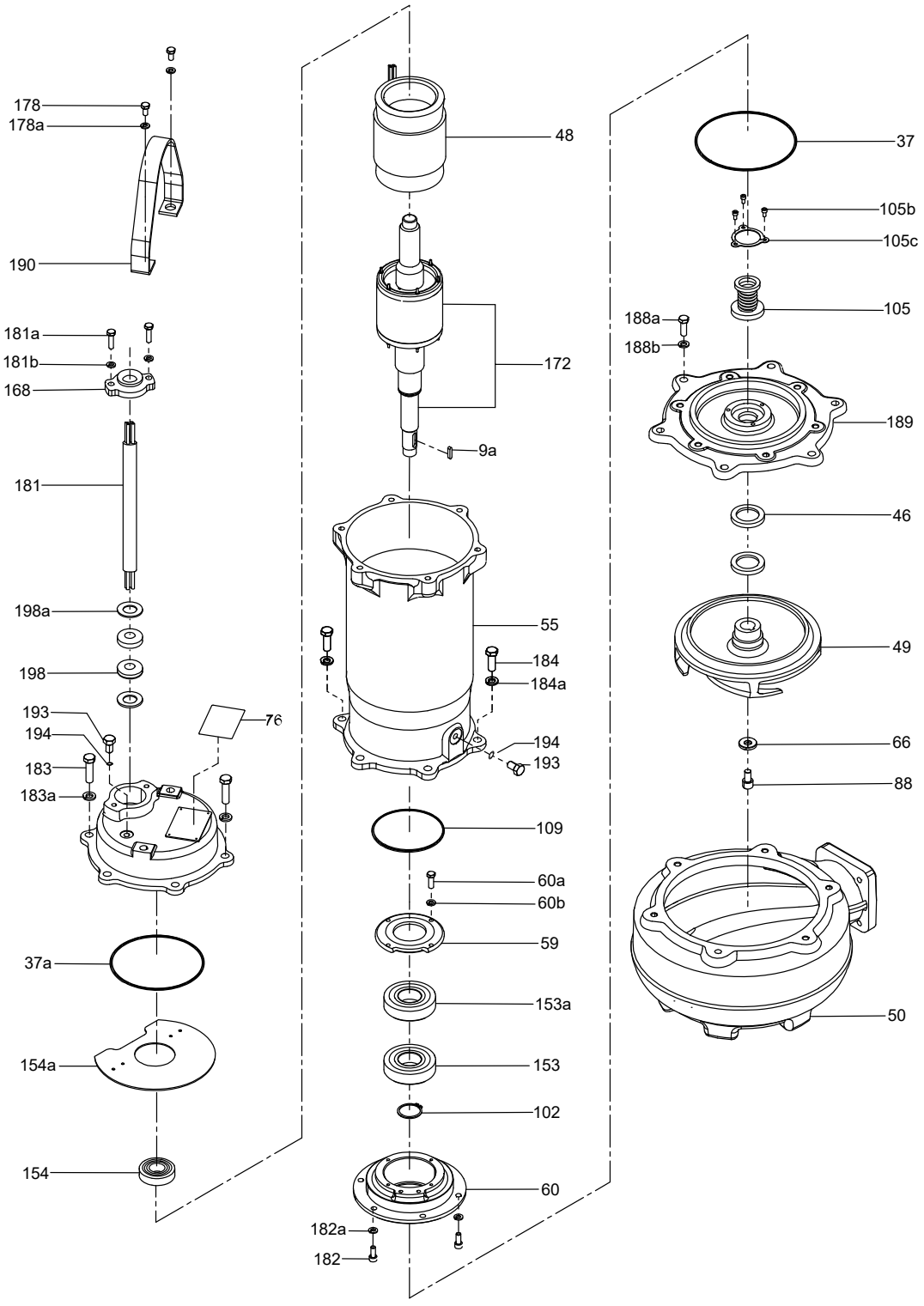
Sectional drawing, DPK.V.80.80.55.2 and DPK.V.80.80.75.2



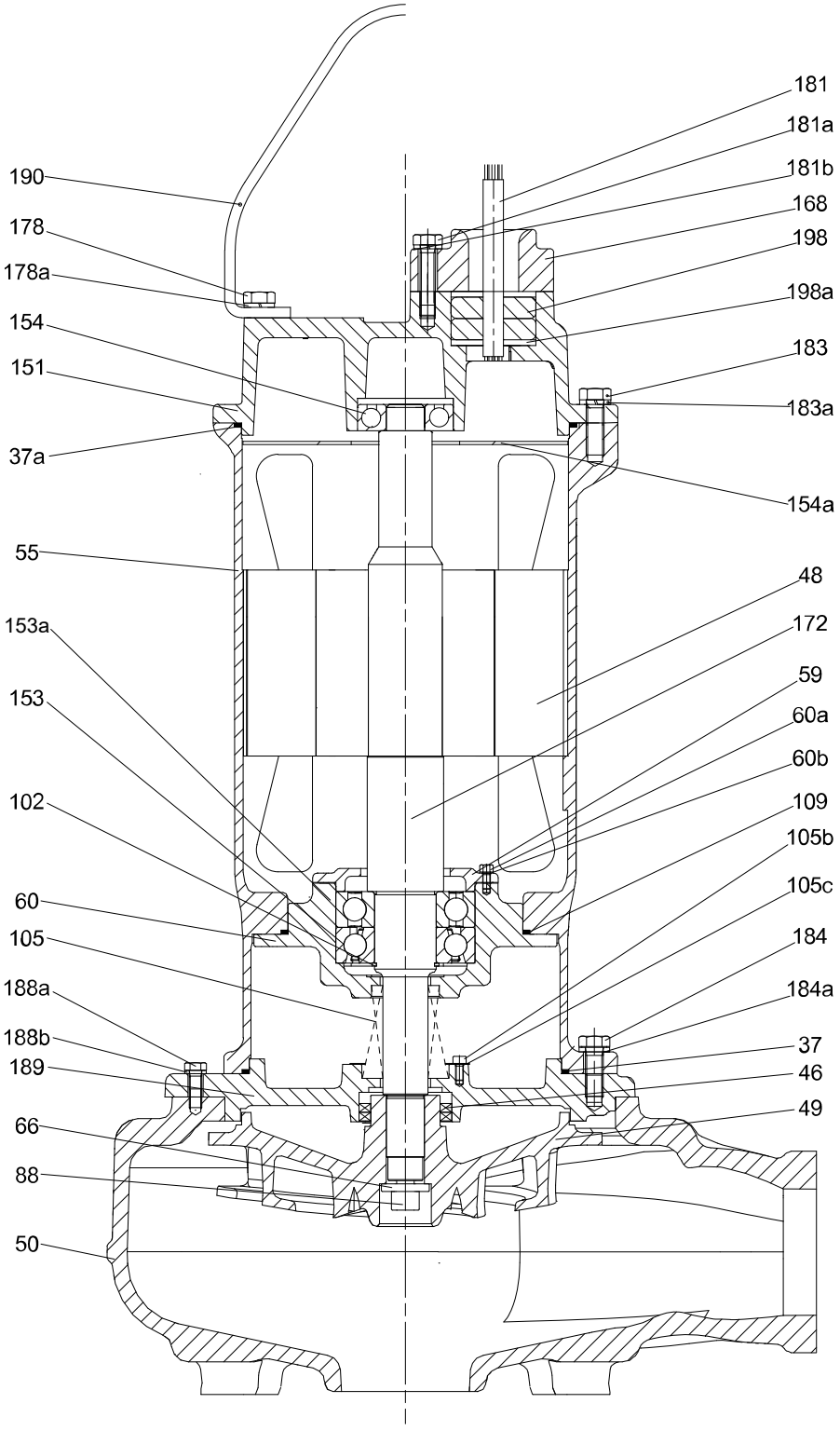
Exploded view, DPK.V.65.80.15.4 and DPK.V.65.80.22.4



Sectional drawing, DPK.V.65.80.15.4 and DPK.V.65.80.22.4



Exploded view, DPK.V.80.80.37.4, DPK.V.80.80.55.4 and DPK.V.80.80.75.4



Sectional drawing, DPK.V.80.80.37.4, DPK.V.80.80.55.4 and DPK.V.80.80.75.4

7.3 Material specification

Pos.	Designation	Material		
		KS	ASTM	DIN
9a	Key	STS410	ANSI 410	17440
12	Flange[1]	GC200/ GC250	A48-CL30/ A48-CL35	GG20/ GG25
13	Hose connection[1]	GC200/ GC250	A48-CL30/ A48-CL35	GG20/ GG25
26	O-ring	NBR	NBR	NBR
26a	Washer	STS304	A276-304	1.4301
26b	Screw	SM25C	A108-1025	-
35	Hexagon head cap screw	STS304	A276-304	1.4301
35a	O-ring	NBR	NBR	NBR
35b	Spring washer	STS304	A276-304	1.4301
35c	Gasket	NBR	NBR	NBR
37	O-ring	NBR	NBR	NBR
37a	O-ring	NBR	NBR	NBR
37b	O-ring	NBR	NBR	NBR
37c	O-ring	NBR	NBR	NBR
37e	Gasket	NBR	NBR	NBR
39	O-ring	NBR	NBR	NBR
39a	O-ring	NBR	NBR	NBR
39b	O-ring	NBR	NBR	NBR
39c	O-ring	NBR	NBR	NBR
39e	Gasket	NBR	NBR	NBR
46	Lip seal	SCP1	SCP1	SCP1
46a	Lip seal	SCP1	SCP1	SCP1
48	Stator	-	-	-
48a	Cable inlet cover	GC250	A48-CL35	GG25
49	Impeller[2]	GCD450/ Hi-Cr	A536-77/ Hi-Cr	GGG45/ Hi-Cr
50	Pump housing[1]	GC200/ GC250	A48-CL30/ A48-CL35	GG20/ GG25
55	Motor housing[1]	GC200/ GC250	A48-CL30/ A48-CL35	GG20/ GG25
59	Bearing cover[1]	GC200/ GC250	A48-CL30/ A48-CL35	GG20/ GG25
60	Lower bearing bracket[1]	GC200/ GC250	A48-CL30/ A48-CL35	GG20/ GG25
60a	Hexagon head cap screw	SM25C	A108-1025	-
60b	Spring washer	SM25C	A108-1025	-
66	Spring washer	STS304	A276-304	1.4301
76	Nameplate	STS304	A276-304	1.4301
84a	Inlet strainer/ ring stand	SS400	A283-Gr.D	-
84b	Hexagon head cap screw	STS304	A276-304	1.4301
84c	Spring washer	STS304	A276-304	1.4301
88	Hexagon head cap screw	-	-	-
102	Stop ring	STS304	A276-304	1.4301
105	Mechanical shaft seal	-	-	-
105b	Hexagon head cap screw	SM25C	A108-1025	-
105c	Shaft seal retainer	STS304	A276-304	1.4301
107	O-ring	NBR	NBR	NBR
108	Sealing washer	STS304	A276-304	1.4301
108a	O-ring	NBR	NBR	NBR
109	O-ring	NBR	NBR	NBR
109a	O-ring	NBR	NBR	NBR
150	Shaft sleeve	STS304	A276-304	1.4301
150a	Sleeve	-	-	-

Pos.	Designation	Material		
		KS	ASTM	DIN
150b	Sleeve	-	-	-
150c	Sleeve	Bronze	Bronze	Bronze
151	Head cover[1]	GC200/ GC250	A48-CL30/ A48-CL35	GG20/ GG25
153	Lower bearing	-	-	-
153a				
154	Upper bearing	-	-	-
154a	Cover	-	-	-
155	Shaft seal housing[1]	GC200/ GC250	A48-CL30/ A48-CL35	GG20/ GG25
159	Rubber tube	NBR	NBR	NBR
159a	Clamping ring[1]	GC200/ GC250	A48-CL30/ A48-CL35	GG20/ GG25
168	Clamping ring[1]	GC200/ GC250	A48-CL30/ A48-CL35	GG20/ GG25
168a	Cable entry[1]	GC200/ GC250	A48-CL30/ A48-CL35	GG20/ GG25
172	Rotor with shaft	STS410	ANSI 410	-
178	Hexagon head cap screw	STS304	A276-304	1.4301
178a	Spring washer	STS304	A276-304	1.4301
181	Power supply cable	PNCT	2RNCT	2RNCT
181a	Hexagon head cap screw	STS304	A276-304	1.4301
181b	Spring washer	STS304	A276-304	1.4301
182	Hexagon head cap screw	STS304	A276-304	1.4301
182a	Spring washer	STS304	A276-304	1.4301
183	Hexagon head cap screw	STS304	A276-304	1.4301
183a	Spring washer	STS304	A276-304	1.4301
183b	Hexagon head cap screw	STS304	A276-304	1.4301
183c	Spring washer	STS304	A276-304	1.4301
184	Hexagon head cap screw	STS304	A276-304	1.4301
184a	Spring washer	STS304	A276-304	1.4301
184b	Hexagon head cap screw	STS304	A276-304	1.4301
184c	Spring washer	STS304	A276-304	1.4301
184f	O-ring	NBR	NBR	NBR
185	O-ring	NBR	NBR	NBR
186	Hexagon head cap screw	STS304	A276-304	1.4301
186a	Spring washer	STS304	A276-304	1.4301
188	Hexagon nut	STS304	A276-304	1.4301
188a	Hexagon head cap screw	STS304	A276-304	1.4301
188b	Spring washer	STS304	A276-304	1.4301
189	Inlet cover[1]	GC200/ GC250	A48-CL30/ A48-CL35	GG20/ GG25
190	Lifting bracket	STS304	A276-304	1.4301
190d	Eyebolt	SM30C	A108-1030	-
193	Oil plug	STS304	A276-304	1.4301
194	O-ring	NBR	NBR	NBR
198	Cable gland	NBR	NBR	NBR
198a	Washer	STS304	A276-304	1.4301
522	Hexagon head cap screw	STS304	A276-304	1.4301
523	Spring washer	STS304	A276-304	1.4301

[1] Materials for products up to 15 kW / Materials for 19 kW and larger products, e.g.: GC200/ GC250.

8. Product description

8.1 Features

8.1.1 Ball bearings

The top bearing is single row deep-groove ball bearing.

The lower bearing, depending on the specific pump type can be:

- one single row deep-groove ball bearing.
- two bearings, with 1 single row deep-groove ball bearing and 1 single-row angular contact ball bearing.

All bearings are lubricated in the factory, no further lubrication is needed.

The below table shows the different bearing types based on the motor size.

Motor size	Pos.	Bearing type
DPK 0.75 kW - 3.7 kW	153	Deep-groove ball bearing
DPK.V 0.75 kW - 3.7 kW 2-pole	153	
DPK.V 0.75 kW - 2.2 kW 4-pole	153	
All other motor sizes	153	Single-row angular contact ball bearing
	153a	Single-row deep-groove ball bearing

8.1.2 Shaft seals

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

The primary seal is SiC-SiC and the secondary is Carbon/Ceramic.

8.1.3 Motor

The motor is watertight and enclosed.

Number of poles: 2

Insulation class: F (155 °C).

Temperature rise class: F (105 °C).

Enclosure class: IP68.

Pump type	Power, P2 [kW]
DPK	0.75
DPK/DPK.V	1.5
DPK/DPK.V	2.2
DPK	3.0
DPK/DPK.V	3.7
DPK/DPK.V	5.5
DPK/DPK.V	7.5
DPK	11
DPK	15
DPK	19
DPK	22

8.1.4 Cables

The standard cable type is PNCT for both DPK and DPK.V pumps.

The cables are 10 m long as standard. Other cable lengths are available on request.

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

Cable type		Cable data		
Power (ground) cable	Sensor cable	Outer cable diameter [mm]	Bending radius	Pump type
[mm^2]			Free [mm]	
4 × 1.5	+ 2 × 1	17.5 ± 0.5	263	DPK DPK.V
4 × 1.5	+ 4 × 1	17.5 ± 0.5	275	DPK DPK.V
4 × 2.5	+ 4 × 1	21.5 ± 1	290	DPK DPK.V
4 × 4	+ 4 × 1	21.5 ± 1	323	DPK DPK.V
4 × 6	+ 4 × 1	25-25.4 ± 1	369	DPK DPK.V
4 × 10	+ 6 × 1	33.6 ± 1.0	354	DPK DPK.V
7 × 10	+ 6 × 1.5	34	510	DPK
7 × 16	+ 6 × 1.5	34	510	DPK
7 × 4.0	+ 4 × 1	25-25.4 ± 1	366	DPK DPK.V
7 × 6.0	+ 6 × 1	25-25.4 ± 1	381	DPK DPK.V
7 × 10	+ 6 × 1.5	28.6	429	DPK DPK.V
7 × 16	+ 6 × 1.5	31.2	468	DPK DPK.V

Cable entry

Cable entry consists of rubber bushing.

8.1.5 Sensors

The following thermal protections are available for DPK pumps, depending on the specific pump type:

- PTO located in the coil head, requires outside control through signal wires of the power cable.
- Klixon 17AM located in the coil head, requires outside control through the signal wires of the power cable.

As standard, the pumps are fitted with a bimetallic thermal switch that cuts the circuit when the motor temperature reaches 130 °C. Seal sensor for continuous monitoring of motor enclosure for liquid detection, except for the following models:

- DPK.x.x.075.x.x
- DPK.x.x.15.x.x
- DPK.x.x.22.x.x
- DPK.x.x.30.x.x
- DPK.x.x.37.x.x.

Customised sensor options

- Pt100 sensor monitors the motor temperature and lower bearing in versions the sensor is not included as standard.
- Seal electrode sensor monitors water penetration into the stator housing, in which the sensor is not included as standard.

8.1.6 Testing

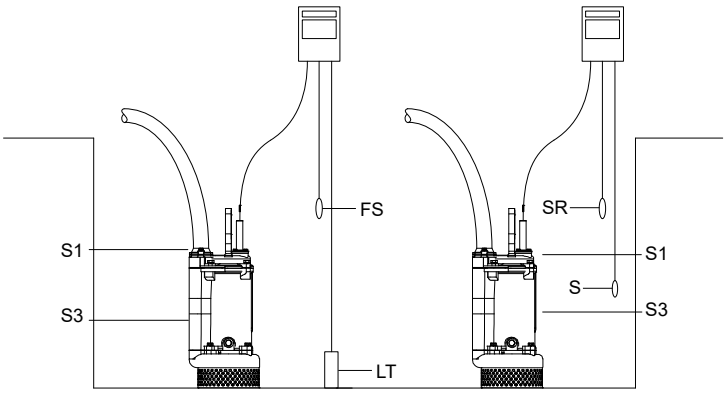
All pumps are tested before leaving the factory. The factory test report is based on ISO 9906:2012, grade 3B. Test reports can be ordered directly together with the pump or separately based on the pump serial number.

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

8.2 Operating modes

The pumps are designed for intermittent operation (S3).

CAUTION
Hot surface
Minor or moderate personal injury
- The pump must be at least 2/3rd submerged into the pumped liquid at all times.



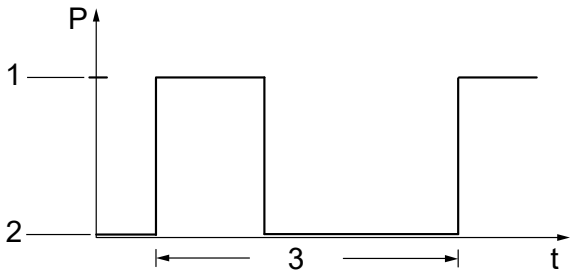
TM081328

Pump operating levels, analog level transmitter, and high-level float switch or digital float switches

Pos.	Description
S1	S1 operation
S3	S3 operation
FS	High-level float switch
LT	Level transmitter
SR	Start
S	Stop

S3, intermittent operation

S3 operation is a series of 10-minute duty cycles (TC): the pump must run for maximum 4 minutes and stop for minimum 6 minutes. Thermal equilibrium is not reached during the cycle. In this operating mode, the pump is partly submerged in the surrounding liquid. The minimum liquid level is at the top of the cable entry.



TM076800

S3 operation

Pos.	Description
1	Operation
2	Stop
3	Duty cycle

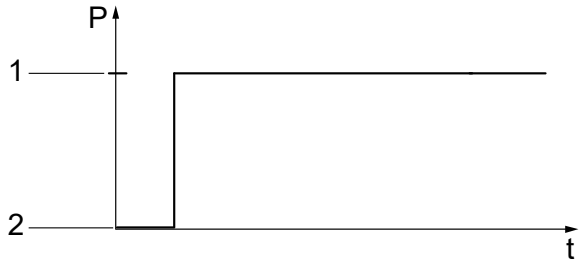
Maximum number of starts per hour:

Type	Starts/hour
DWK.O	30
DWK.E	15
DWK.H	15

S1, continuous operation

In this operating mode, the pump can operate continuously without being stopped for cooling. When the pump is completely submerged, it is sufficiently cooled by the surrounding liquid.

DWK.O pumps must be fully submerged for S1 operation.



TM076798

S1 operation

Pos.	Description
1	Operation
2	Stop

8.3 Pump controllers

Pumps can be controlled by LC 231 and LC 241 level controllers. Both controllers can be used in single or dual pump applications.

The LC 231 is a compact solution with certified motor protection and current measurement. LC 231 can be operated in a single pump setup up to 12A or dual pump setup up to 9.6A. Starting method is Direct On-Line for both analog pressure transmitter and digital float switches.

The LC 241 is a cabinet solution allowing setup customisation. Basic settings are configured through the operating panel. Advanced settings are configured with Grundfos GO Remote through Bluetooth. LC 241 can be operated in single and dual pump setup to 72A.

Starting methods are the following for both analog pressure transmitter and digital float switches:

- Direct On-Line
- Star-Delta
- Soft Starter.

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

8.4 Frequency converter operation

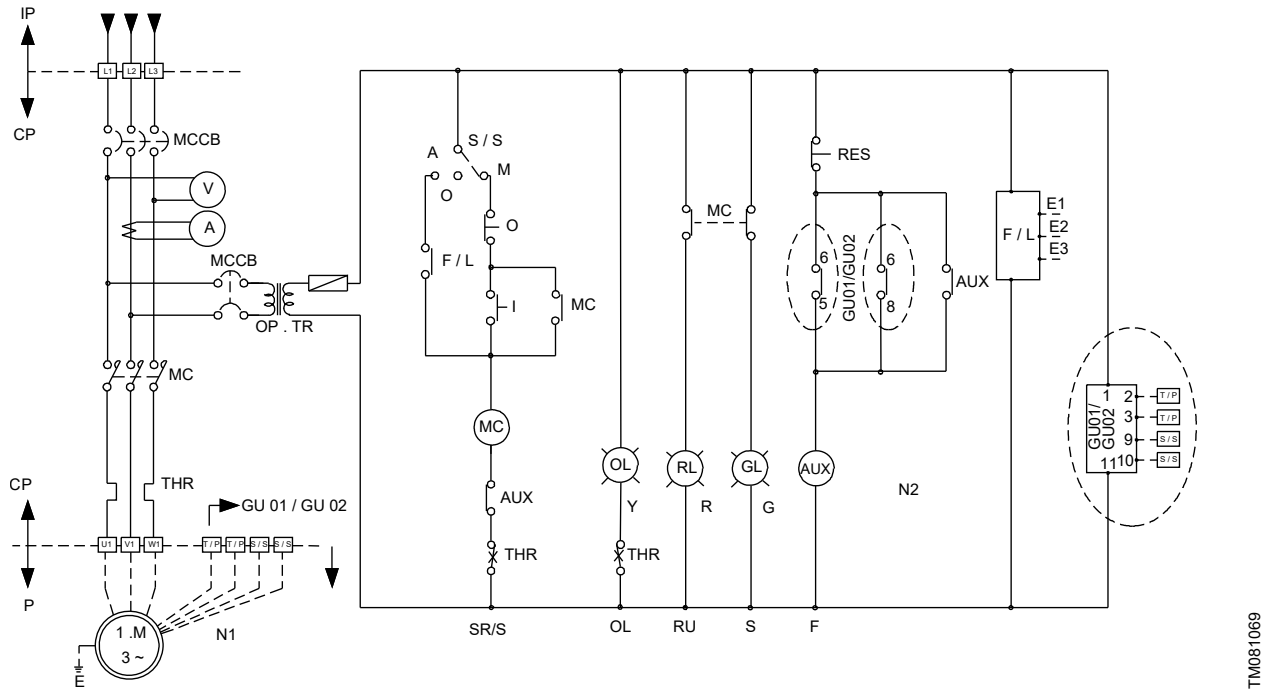
Frequency converter is available only for DPK 19 and 22 kW pumps.

Frequency converter operation exposes the motor insulation system to a heavier load and may cause the motor to be more noisy due to eddy currents caused by voltage peaks.

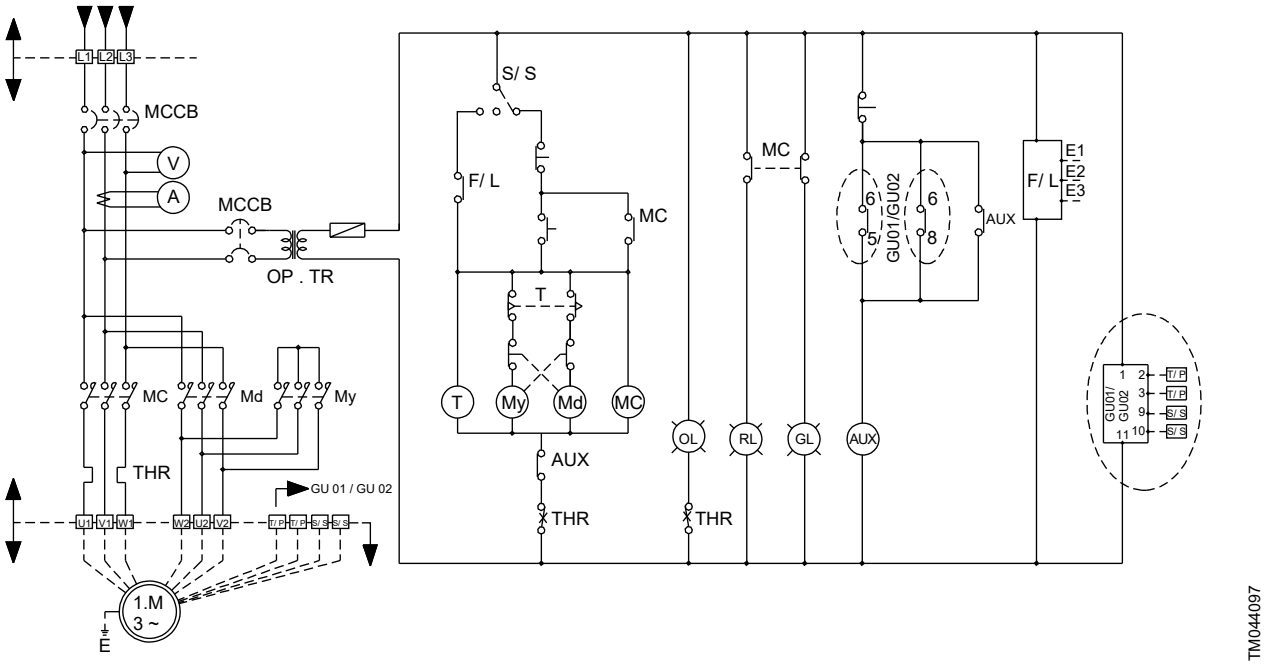
In addition, large motors operated by a frequency converter are loaded by bearing currents.

For more information, see the installation and operation instructions for the selected frequency converter in Grundfos Product Center at www.grundfos.com.

8.5 Wiring diagrams



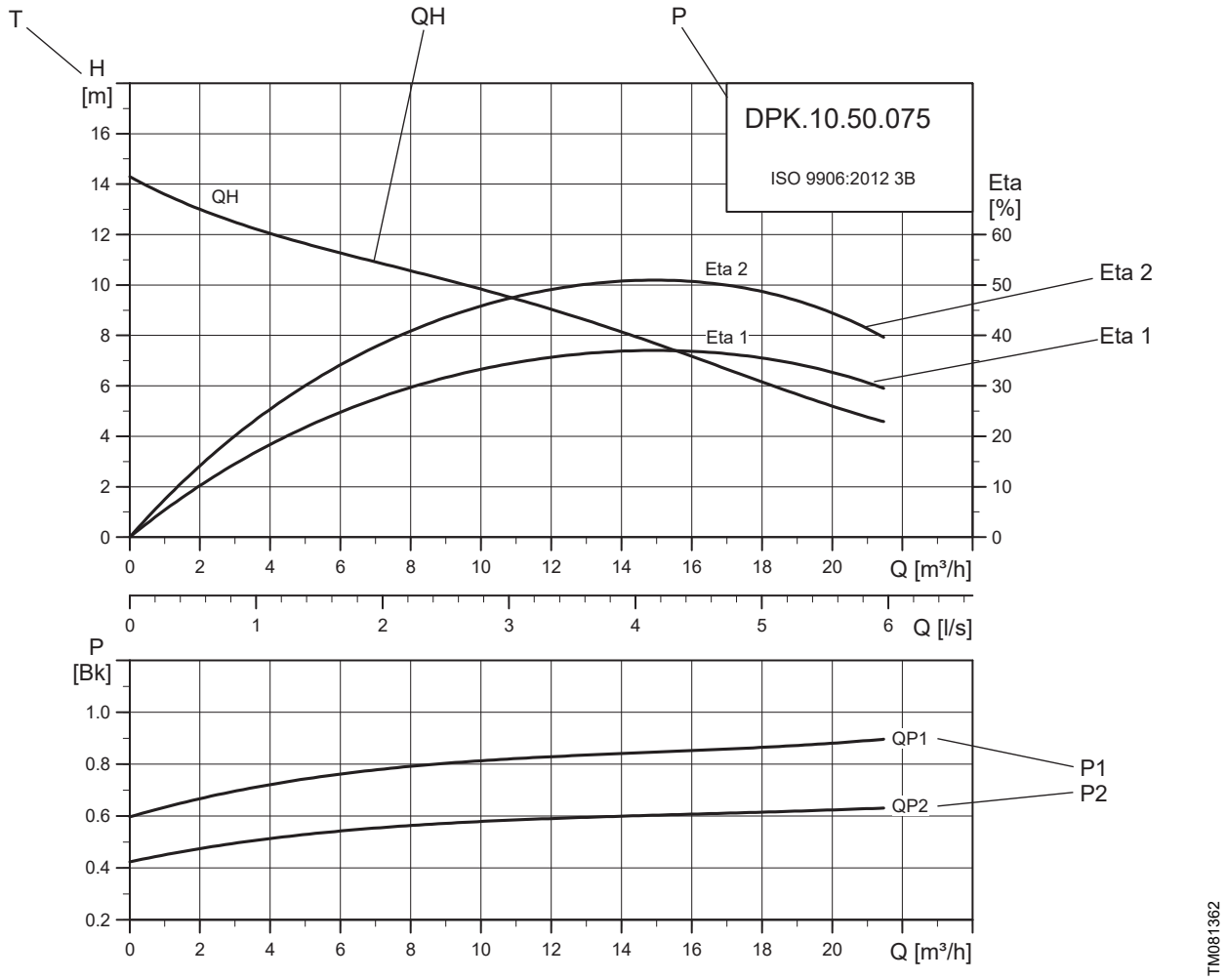
Wiring diagram, direct-on-line starting



Wiring diagram, star-delta starting

9. Performance curves and technical data

9.1 How to read the curve charts



Note: The pumps are tested according to ISO 9906:2012 grade 3B tolerance. Testing equipment and measuring instruments are designed and calibrated according to this standard. The pumps are approved according to tolerances for entire curves, specified in grade 3B.

Pos.	Description
T	Total pump head $H = H_{Total}$
QH	QH curve
P	Pump type
Eta 1, Eta 2	Eta1 and Eta2 curves of the individual pump
P1, P2	Power curves indicating input power, P1, and output power P2, of the pump

9.2 Performance curve conditions

The guidelines below apply to the curves in Performance curves and technical data.

- Tolerances according to: ISO 9906:2012, grade 3B.
- The curves indicate pump performance with different impeller diameters at the rated speed.
- The curves apply to the pumping of airless water at a temperature of 20 °C and a kinematic viscosity of 1 mm^2/s (1 cSt).
- The Eta curves show the hydraulic efficiency of the pump.
  - Eta 1 is the total efficiency (pump + motor).
  - Eta 2 is the hydraulic efficiency (pump).
- In case of other densities than 1000 kg/m^3, the outlet pressure is proportional to the density.
- When pumping liquids with a density higher than 1000 kg/m3, motors with higher outputs must be used.

Calculation of total head

The total pump head can be calculated in the following way:

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

H_{geo} : Height difference between measuring points.

H_{stat}: Differential head between inlet and the outlet side of the pump.

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

9.3 Performance tests

The requested duty point for every pump is tested according to ISO 9906:2012, grade 3B, and without certification.

If pumps are ordered based on the impeller diameter (no requested duty point), they are tested according to ISO 9906:2012, grade 3B.

If more points on the curve are to be checked, individual measurements and certificates are available on request.

9.4 Certificates

Certificates are available on request and have to be confirmed for each order. For more information about different certificates, see *6.1 List of variants*.

9.5 Witness test

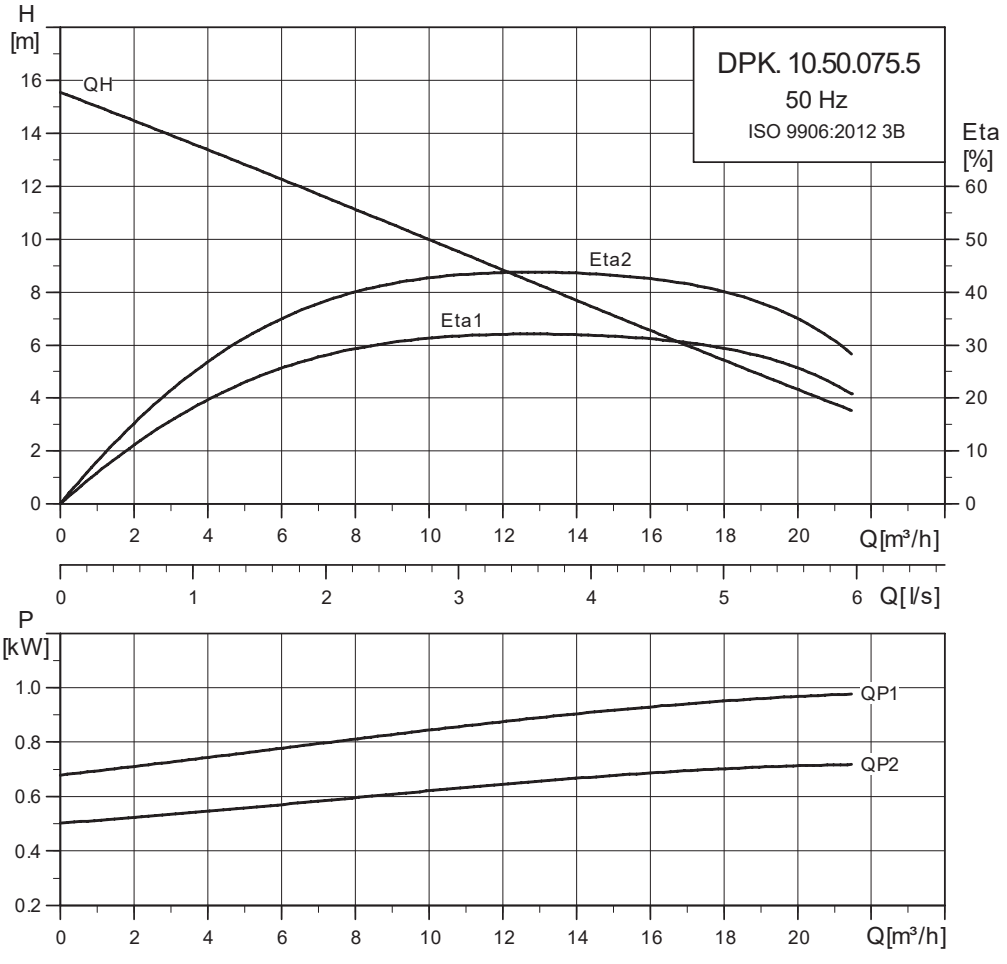
It is possible for the customer to witness the testing procedure according to ISO 9906:2012.

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 a witness test is required, it must be stated on the order.

9.6 DPK

9.6.1 DPK.10.50.075.5



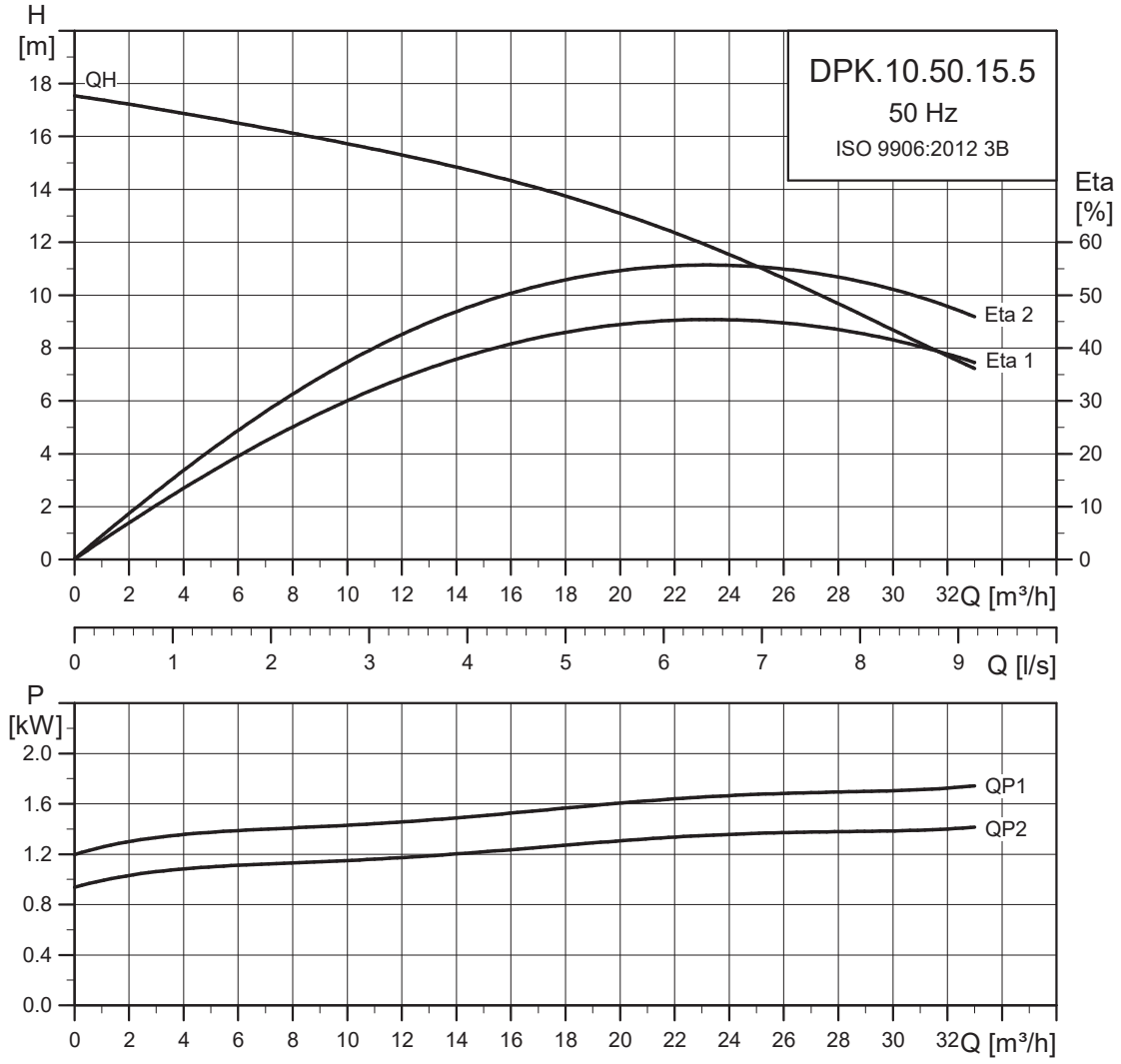
Electrical data

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.10.50.075.5.0D	3 × 380-415 Y	0.75	2850	DOL	2	72.5	77.5	79.2	0.72	0.82	0.88	4 × 1.5 mm^2 + 2 × 1 mm^2

Pump data

Pump type	Impeller type	Maximum solids size [mm]	Maximum number of starts per hour	Maximum installation depth [m]	Enclosure class	Insulation class	Maximum liquid temperature [°C]	pH
DPK.10.50.075.5	Semi-open	10	30	25	68	F	40	4-10

9.6.2 DPK.10.50.15.5



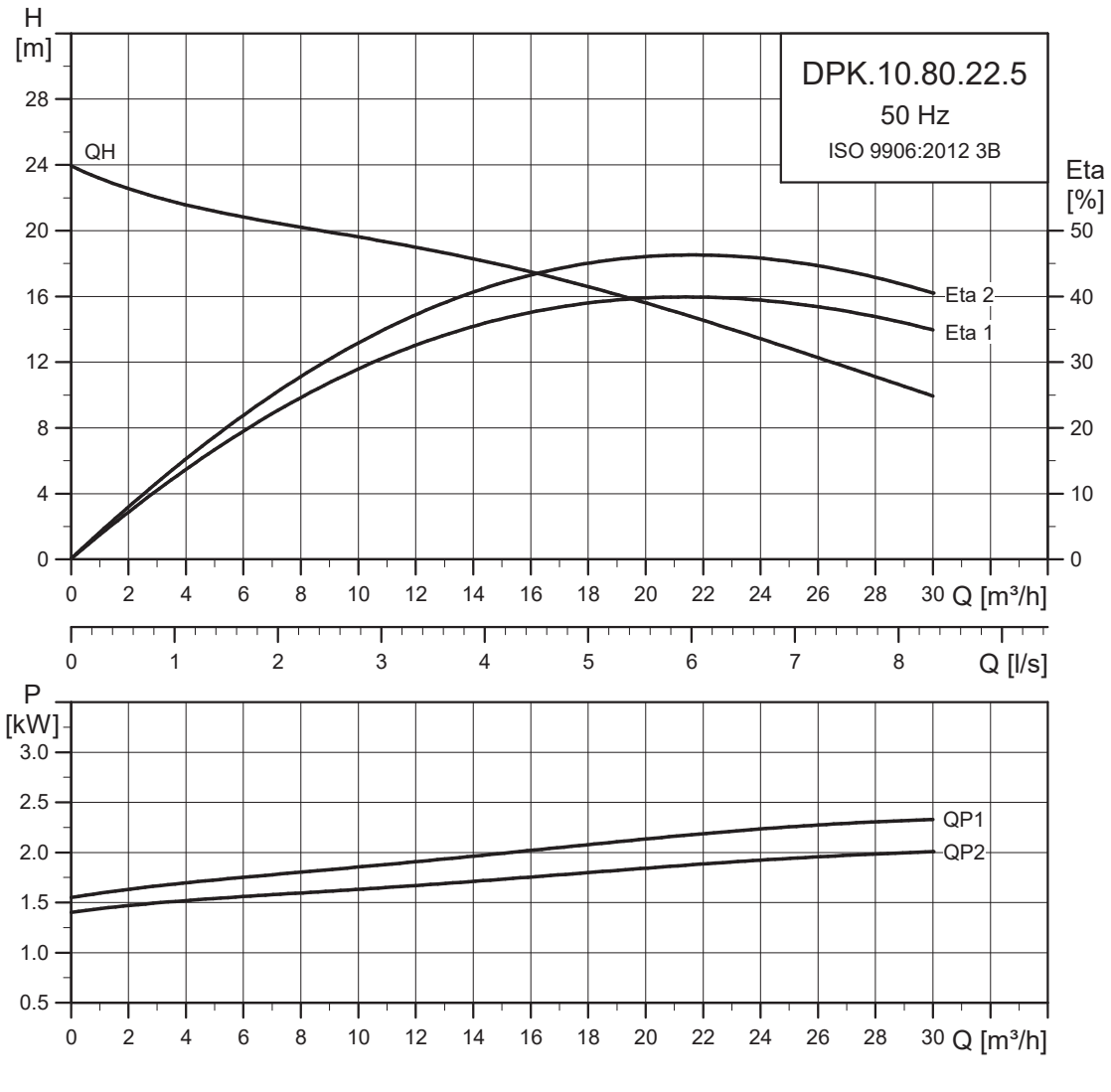
Electrical data

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.10.50.15.5.0D	3 × 380-415 Y	1.5	2850	DOL	3.6	78.0	82.1	83.0	0.68	0.78	0.85	4 × 1.5 mm^2 + 2 × 1 mm^2

Pump data

Pump type	Impeller type	Maximum solids size [mm]	Maximum number of starts per hour	Maximum installation depth [m]	Enclosure class	Insulation class	Maximum liquid temperature [°C]	pH
DPK.10.50.15.5	Semi-open	10	30	25	68	F	40	4-10

9.6.3 DPK.10.80.22.5



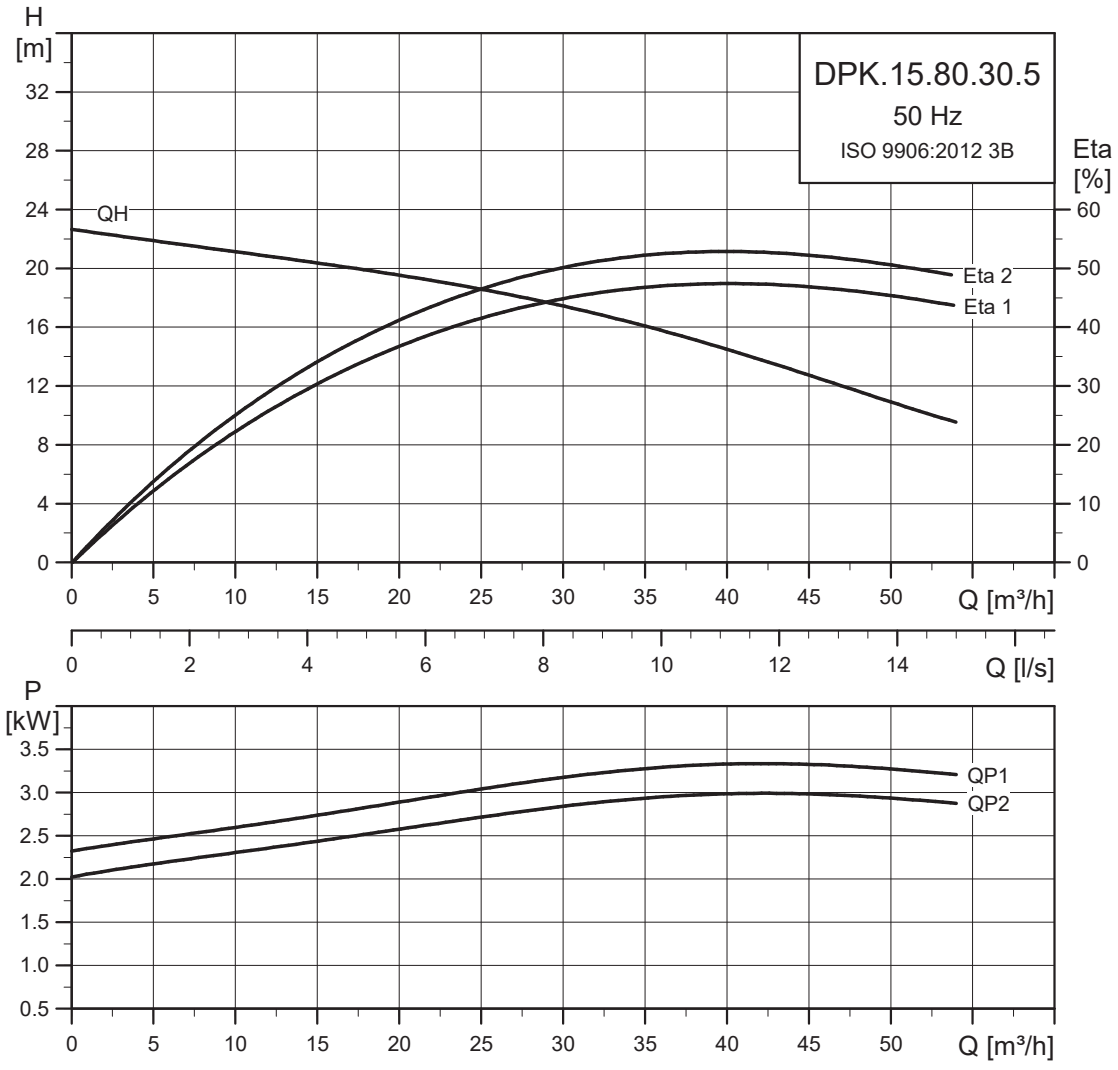
Electrical data

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.10.80.22.5.0D	3 × 380-415 Y	2.2	2850	DOL	5.1	79.8	83.1	86.1	0.71	0.82	0.89	4 × 1.5 mm^2 + 2 × 1 mm^2

Pump data

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

9.6.4 DPK.15.80.30.5



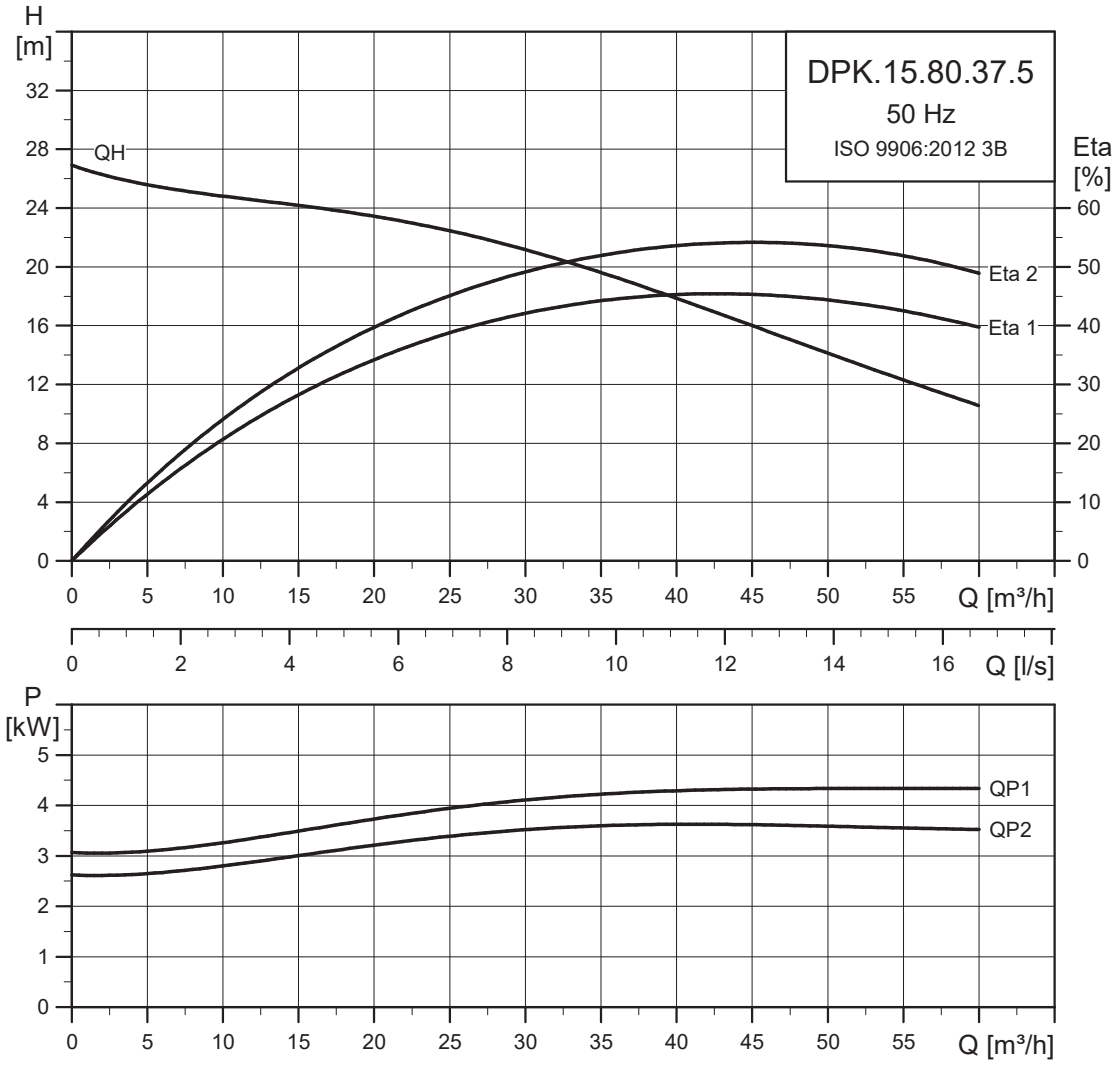
Electrical data

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.15.80.30.5.0D	3 × 380-415 Y	3.0	2850	DOL	5.9	69.0	87.5	86.6	0.69	0.78	0.87	4 × 1.5 mm^2 + 2 × 1 mm^2

Pump data

Pump type	Impeller type	Maximum solids size [mm]	Maximum number of starts per hour	Maximum installation depth [m]	Enclosure class	Insulation class	Maximum liquid temperature [°C]	pH
DPK.15.80.30	Semi-open	15	30	25	68	F	40	4-10

9.6.5 DPK.15.80.37.5



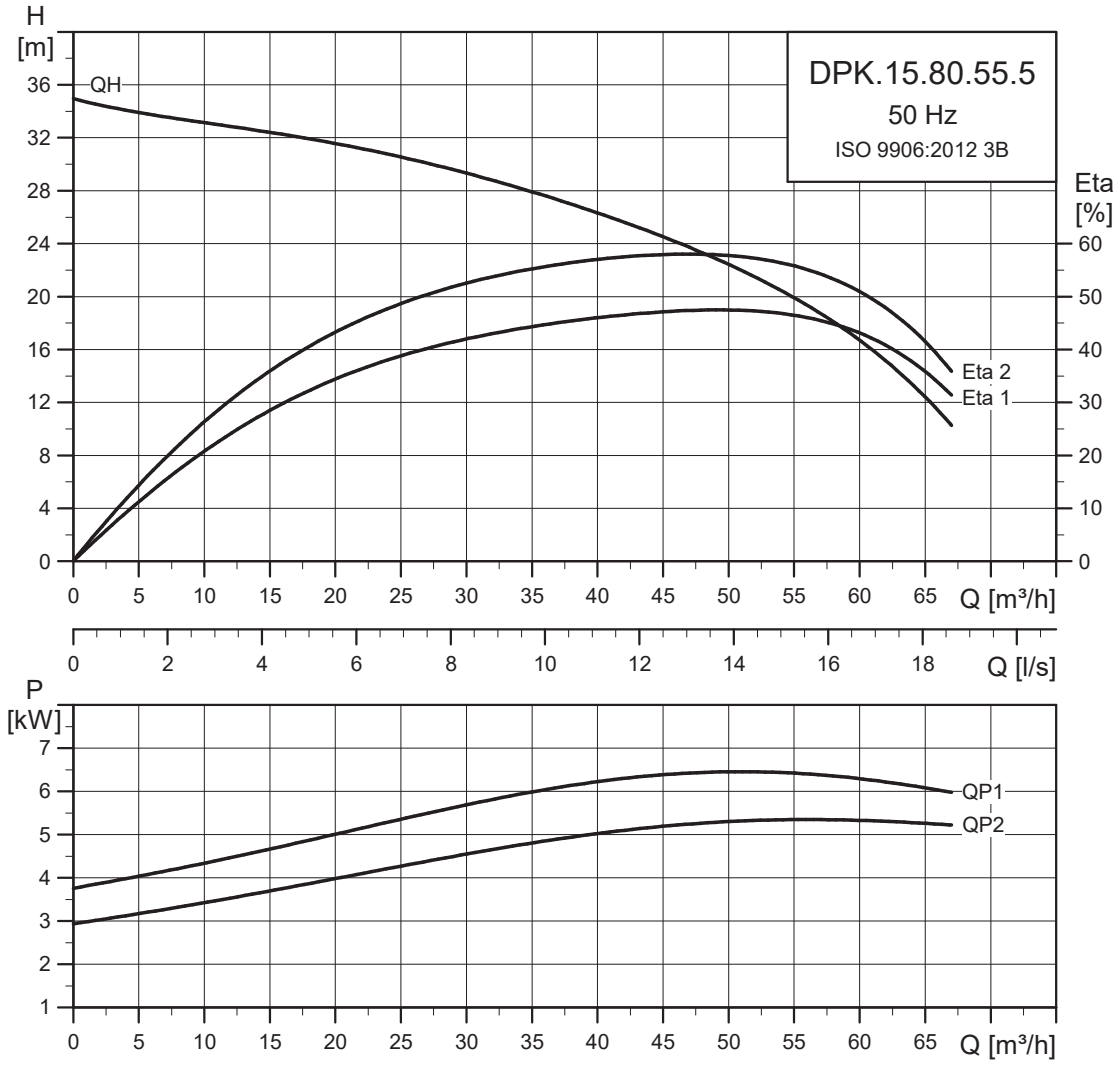
Electrical data

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.15.80.37.5.0D	3 × 380-415 Y	3.7	2850	DOL	8.2	85.6	85.5	84.5	0.85	0.90	0.91	4 × 1.5 mm^2 + 2 × 1 mm^2

Pump data

Pump type	Impeller type	Maximum solids size [mm]	Maximum number of starts per hour	Maximum installation depth [m]	Enclosure class	Insulation class	Maximum liquid temperature [°C]	pH
DPK.15.80.37.5	Semi-open	15	30	25	68	F	40	4-10

9.6.6 DPK.15.80.55.5



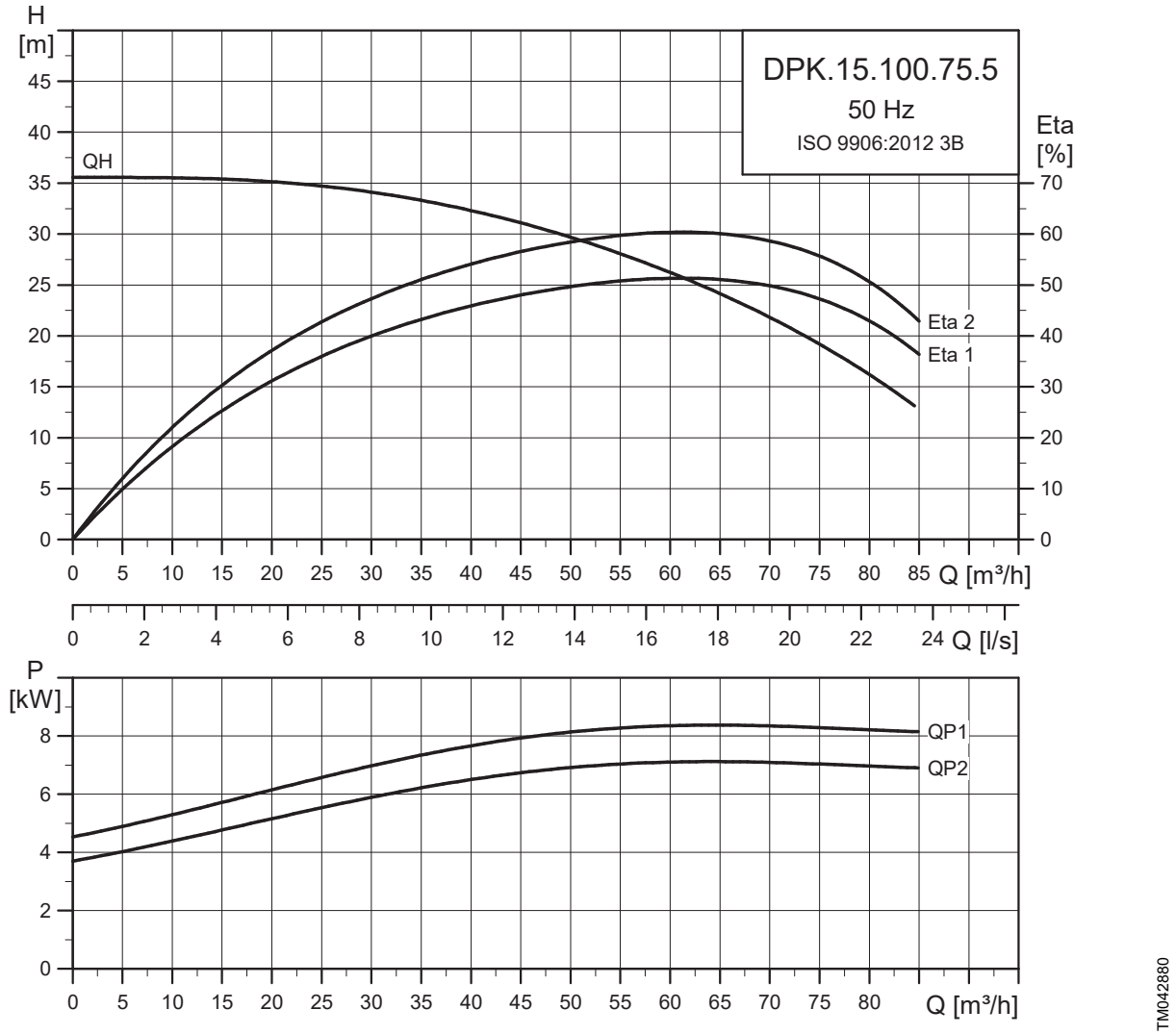
Electrical data

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.15.80.55.5.0D	3 × 380-415 Y	5.5	2850	DOL	11.9	82.2	88.8	88.2	0.82	0.88	0.91	4 × 2.5 mm^2 + 4 × 1 mm^2
DPK.15.80.55.5.1D	3 × 380-415 D	5.5	2850	Y/D	11.9	82.2	88.8	88.2	0.82	0.88	0.91	7 × 4.0 mm^2 + 4 × 1 mm^2

Pump data

Pump type	Impeller type	Maximum solids size [mm]	Maximum number of starts per hour	Maximum installation depth [m]	Enclosure class	Insulation class	Maximum liquid temperature [°C]	pH
DPK.15.80.55.5	Semi-open	15	30	25	68	F	40	4-10

9.6.7 DPK.15.100.75.5



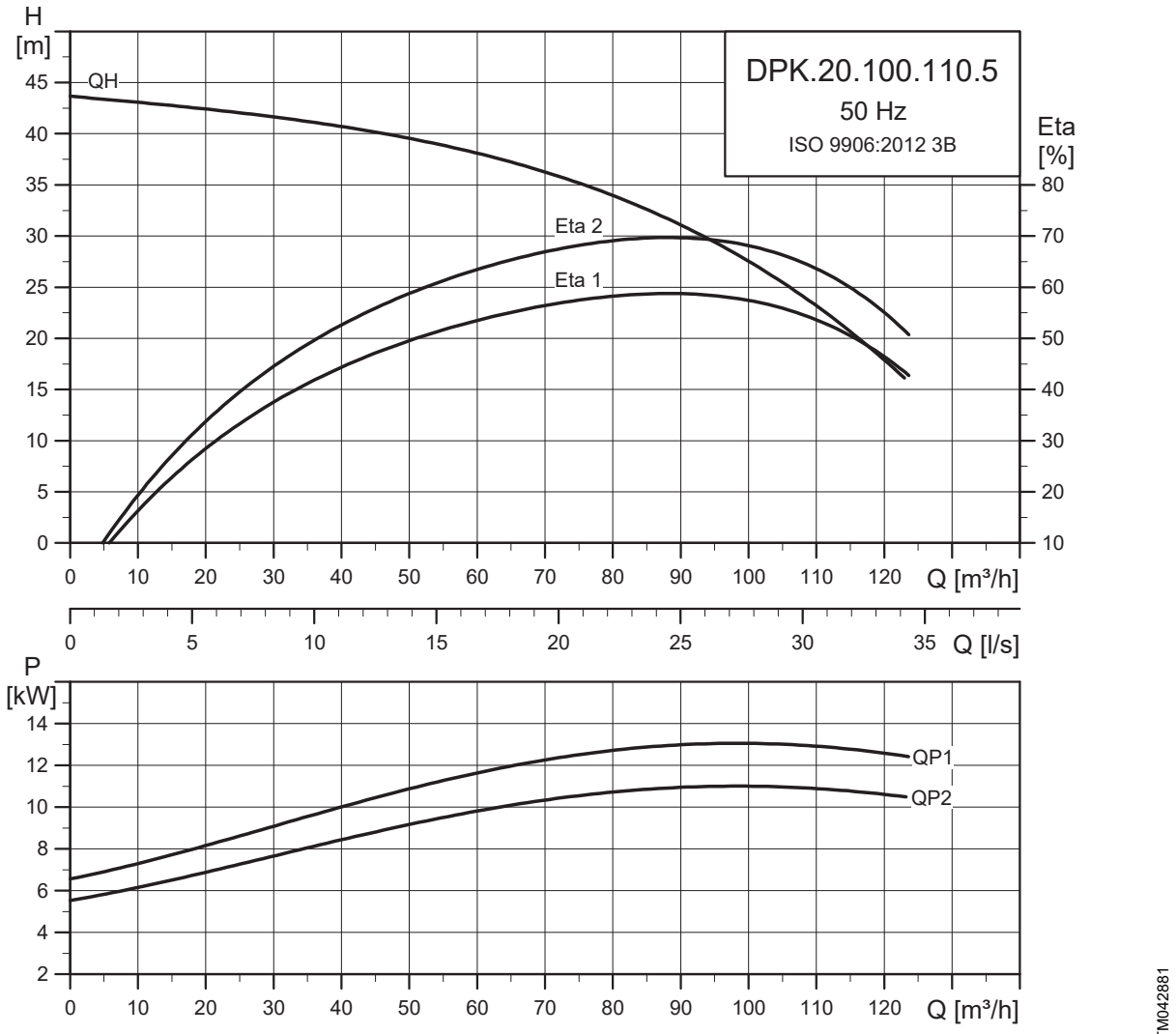
Electrical data

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.15.100.75.5.0D	3 × 380-415 Y	7.5	2850	DOL	16	88.9	89.2	88.3	0.86	0.91	0.92	4 × 4.0 mm^2 + 4 × 1 mm^2
DPK.15.100.75.5.1D	3 × 380-415 D	7.5	2850	Y/D	16	88.9	89.2	88.3	0.86	0.91	0.92	7 × 4.0 mm^2 + 4 × 1 mm^2

Pump data

Pump type	Impeller type	Maximum solids size [mm]	Maximum number of starts per hour	Maximum installation depth [m]	Enclosure class	Insulation class	Maximum liquid temperature [°C]	pH
DPK.15.100.75.5	Semi-open	15	30	25	68	F	40	4-10

9.6.8 DPK.20.100.110.5



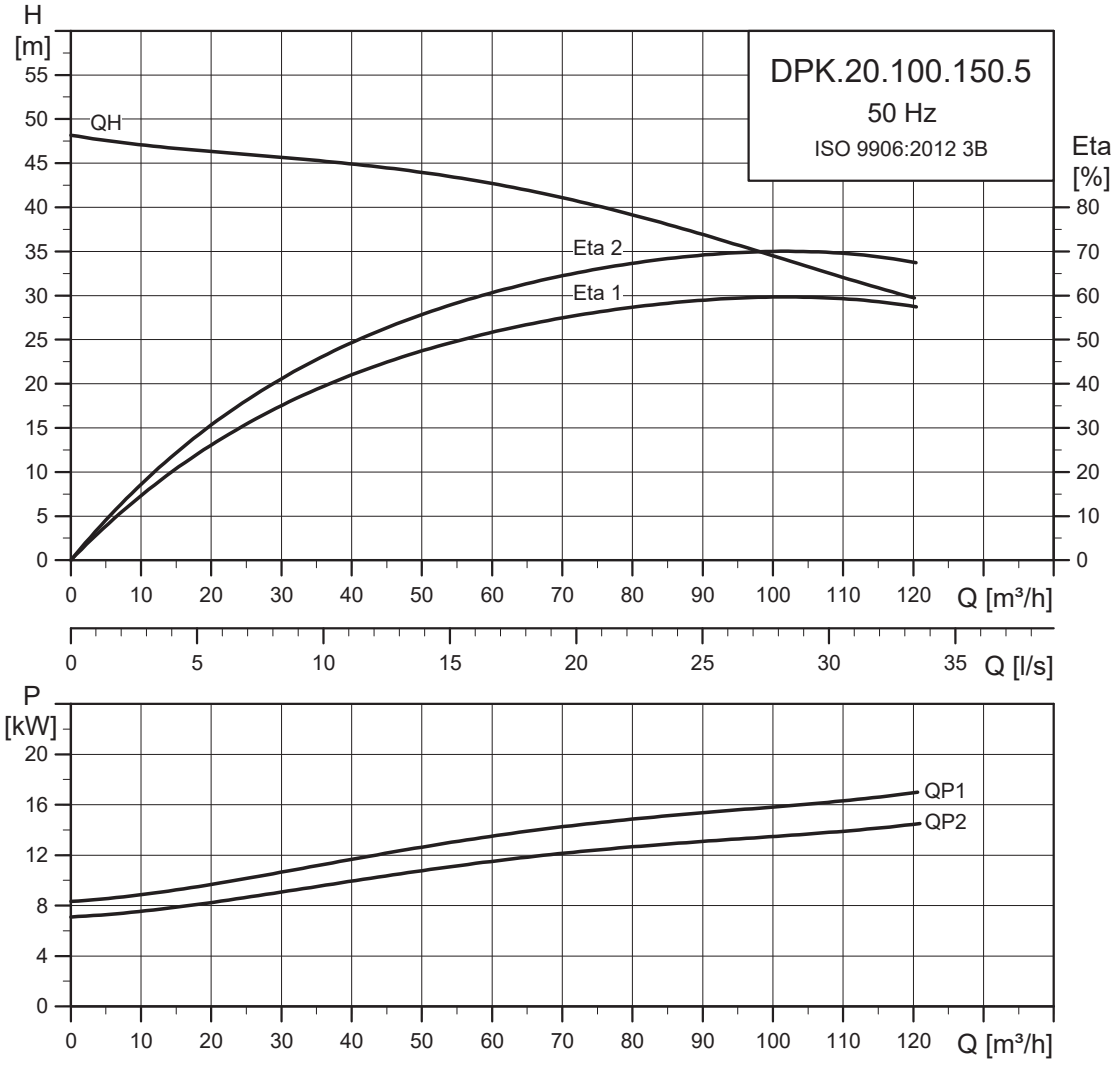
Electrical data

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.20.100.110.5.0D	3 × 380-415 Y	11	2850	DOL	23	89.2	90.0	89.5	0.88	0.91	0.92	4 × 6.0 mm^2 + 4 × 1 mm^2
DPK.20.100.110.5.1D	3 × 380-415 D	11	2850	Y/D	23	89.2	90.0	89.5	0.88	0.91	0.92	7 × 4.0 mm^2 + 4 × 1 mm^2

Pump data

Pump type	Impeller type	Maximum solids size [mm]	Maximum number of starts per hour	Maximum installation depth [m]	Enclosure class	Insulation class	Maximum liquid temperature [°C]	pH
DPK.20.100.110.5	Semi-open	20	30	25	68	F	40	4-10

9.6.9 DPK.20.100.150.5



TM042882

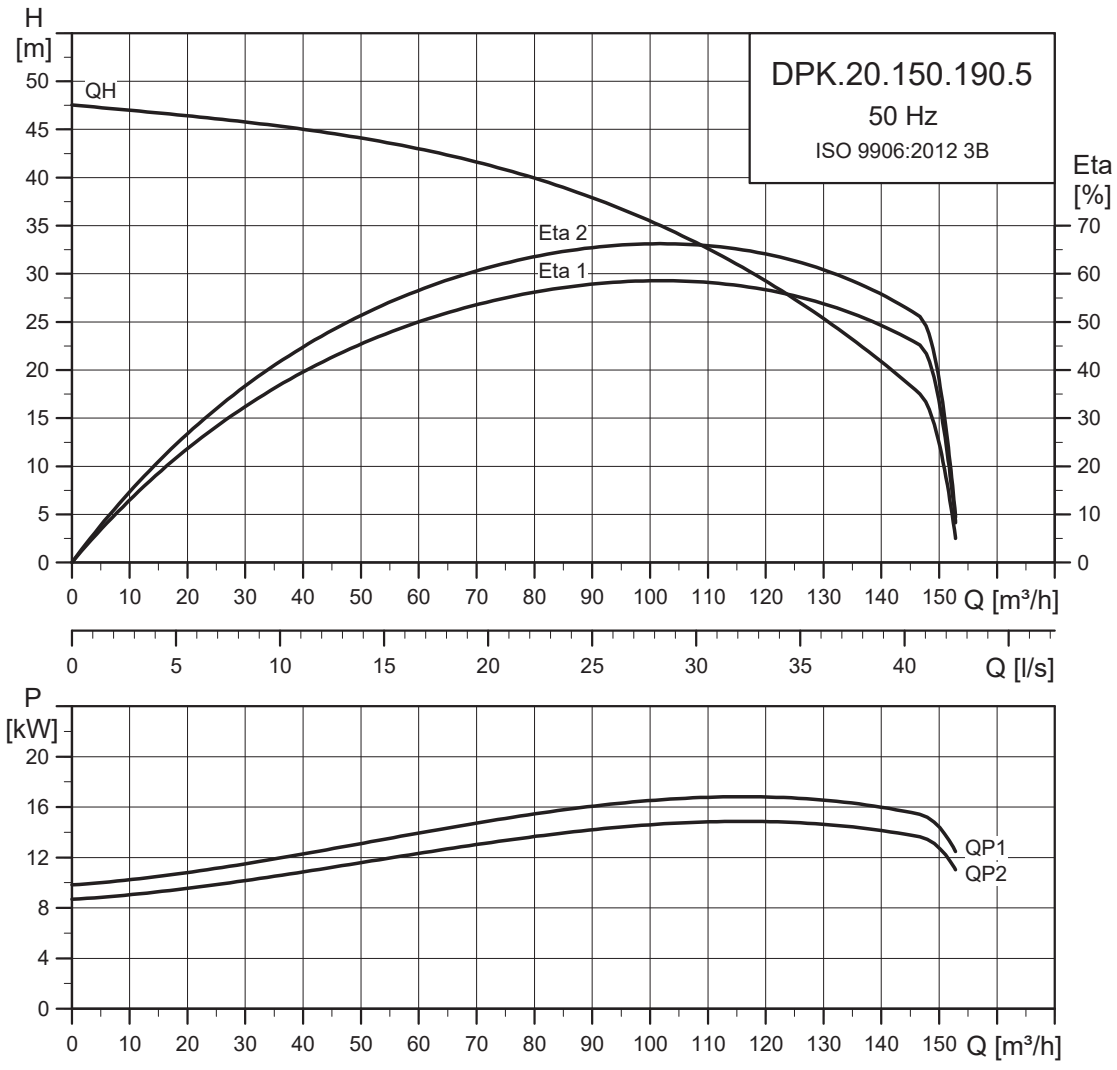
Electrical data

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.20.100.150.5.0D	3 × 380-415 Y	15	2850	DOL	31	85.9	90.3	88.4	0.88	0.91	0.92	4 × 6.0 mm^2 + 4 × 1 mm^2
DPK.20.100.150.5.1D	3 × 380-415 D	15	2850	Y/D	31	85.9	90.3	88.4	0.88	0.91	0.92	7 × 4.0 mm^2 + 4 × 1 mm^2

Pump data

Pump type	Impeller type	Maximum solids size [mm]	Maximum number of starts per hour	Maximum installation depth [m]	Enclosure class	Insulation class	Maximum liquid temperature [°C]	pH
DPK.20.100.150.5	Semi-open	20	30	25	68	F	40	4-10

9.6.10 DPK.20.150.190.5



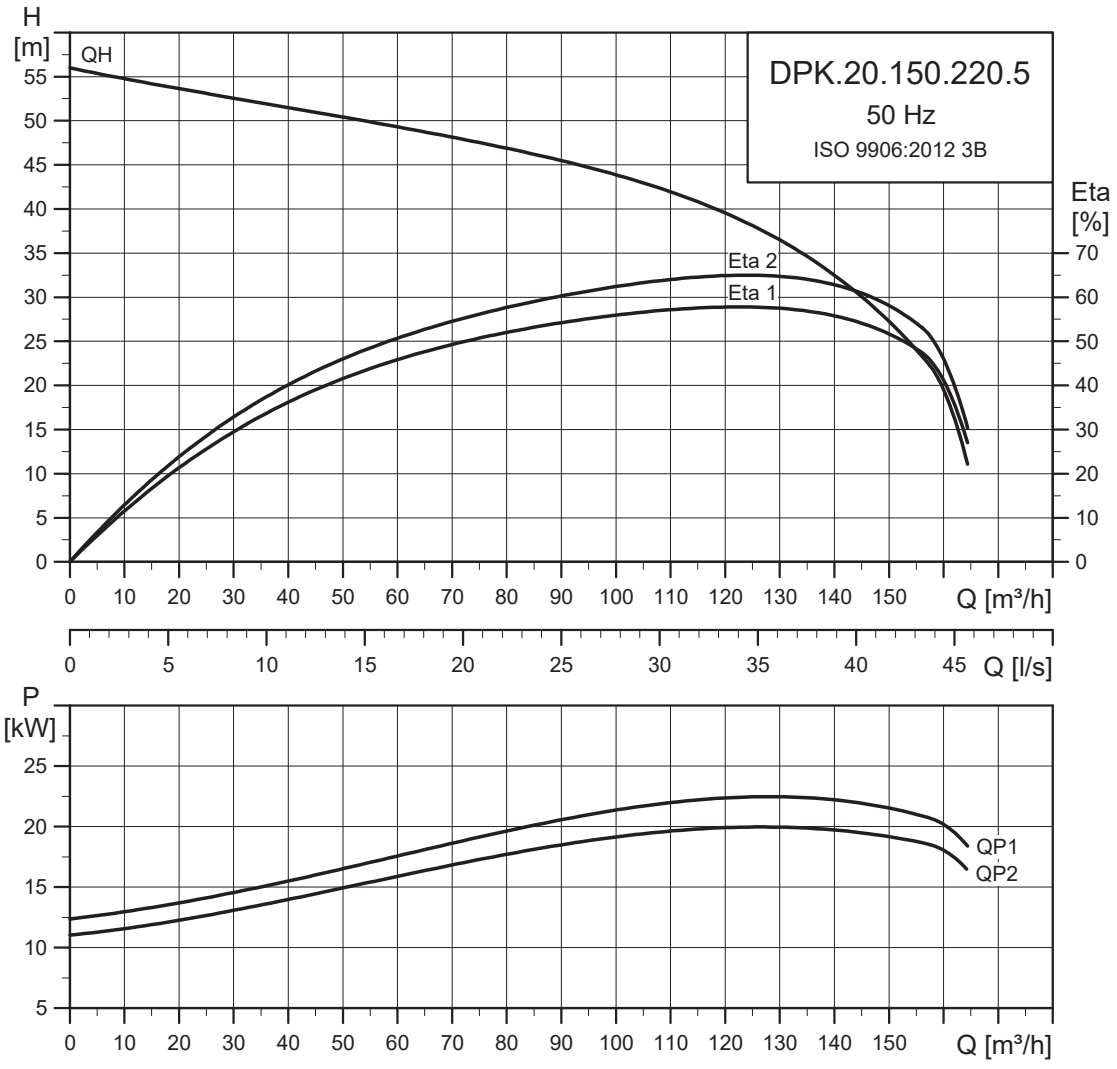
Electrical data DPK.20.150.190.5.1D - 3 × 380-415 V

Pump type	Voltage [V]	P2 [kW]	mim-1	Starting method	IN	ηmotor[%]			Cos φ			Cable [mm²]
					[A]	1/2	3/4	1/1	1/2	3/4	1/1	
DPK.20.150.190.5.1D	3 × 380-415 V D	19	2850	Y/D	36	85.9	87.8	88.4	0.77	0.85	0.88	7x10+6x1.5

Pump data

Pump type	Impeller type	Maximum solids size [mm]	Maximum number of starts per hour	Maximum installation depth [m]	Enclosure class	Insulation class	Maximum liquid temperature [°C]	pH
DPK.20.150.190.5	Semi-open	20	18	25	68	F	40	4-10

9.6.11 DPK.20.150.220.5



Electrical data DPK.20.150.220.5.1D - 3 × 380-415 V

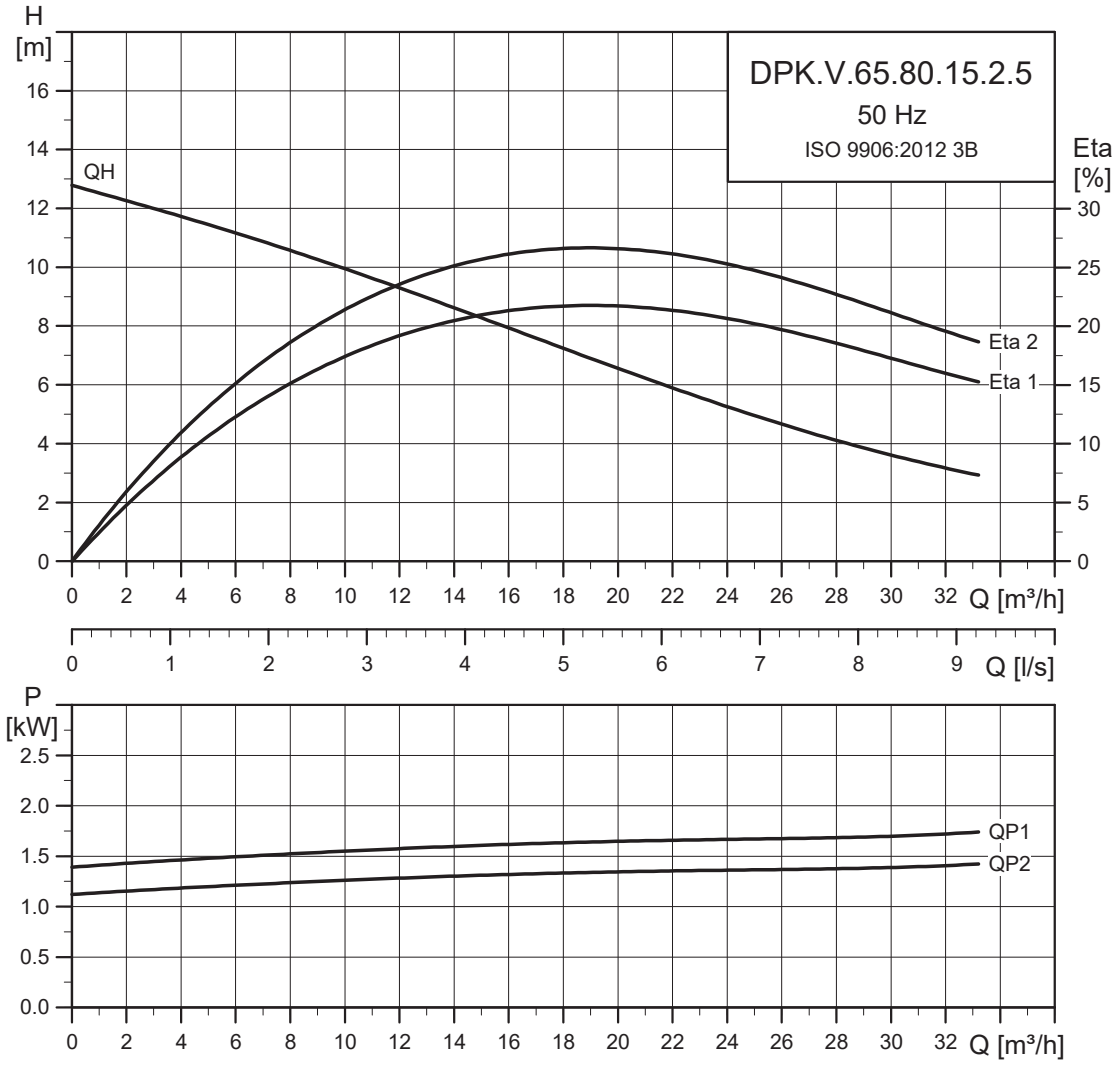
Pump type	Voltage [V]	P2 [kW]	mim-1	Starting method	IN	ηmotor[%]			Cos φ			Cable [mm²]
					[A]	1/2	3/4	1/1	1/2	3/4	1/1	
DPK.20.150.220.5.1D	3 × 380-415 V D	22	2850	Y/D	43	86.7	88.6	89.2	0.75	0.82	0.86	7x10+6x1.5

Pump data

Pump type	Impeller type	Maximum solids size [mm]	Maximum number of starts per hour	Maximum installation depth [m]	Enclosure class	Insulation class	Maximum liquid temperature [°C]	pH
DPK.20.150.220.5	Semi-open	20	18	25	68	F	40	4-10

9.7 DPK.V

9.7.1 DPK.V.65.80.15.2



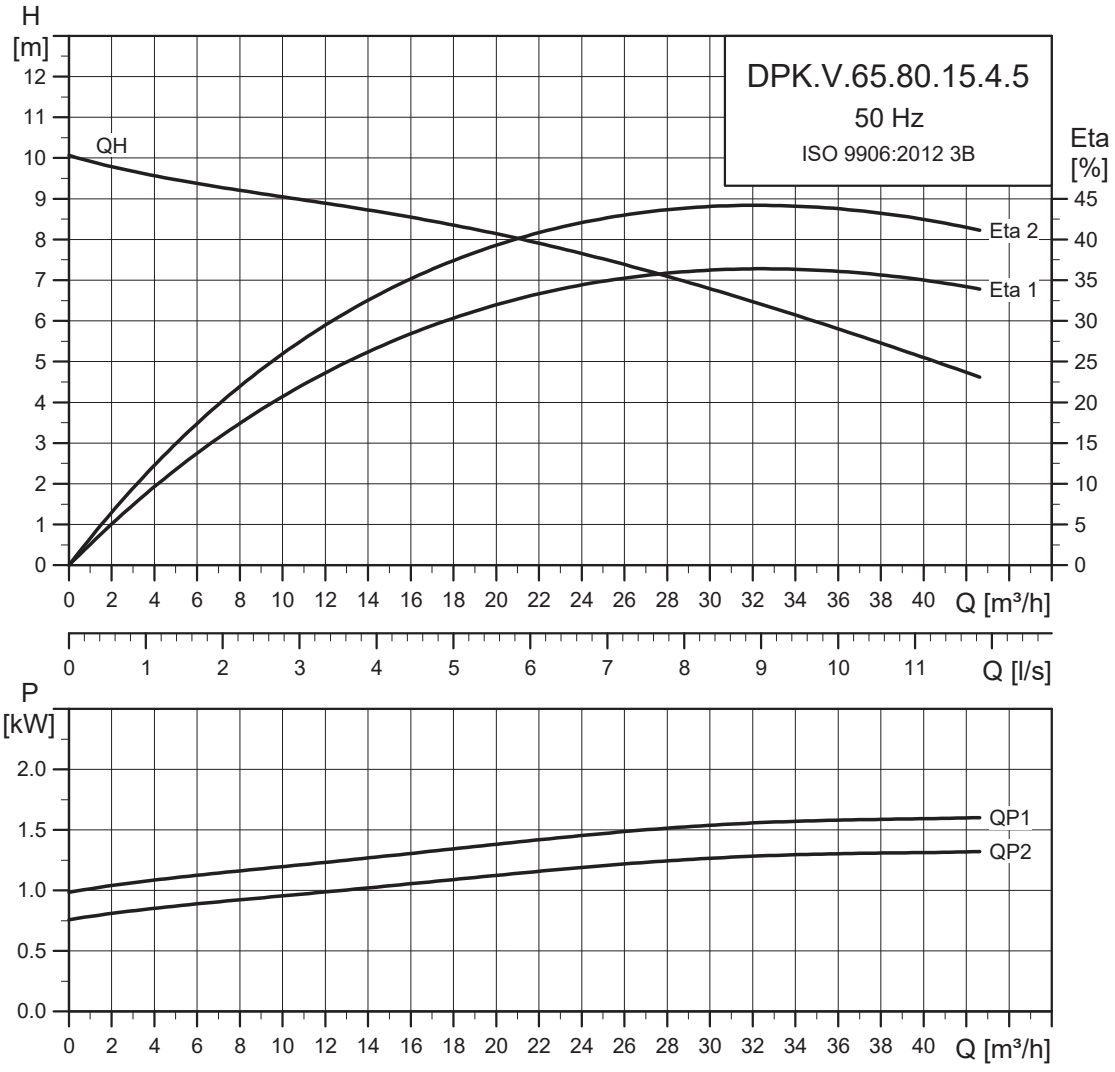
Electrical data

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.V.65.80.15.2.5.0D	3 × 380-415 Y	1.5	2850	DOL	3.1	78.0	82.1	83.0	0.68	0.78	0.85	4 × 1.5 mm^2 + 4 × 1.0 mm^2

Pump data

Pump type	Impeller type	Maximum solids size [mm]	Maximum number of starts per hour	Maximum installation depth [m]	Enclosure class	Insulation class	Maximum liquid temperature [°C]	pH
DPK.V.65.80.15.2	SuperVortex	65	20	20	68	F	40	4-10

9.7.2 DPK.V.65.80.15.4



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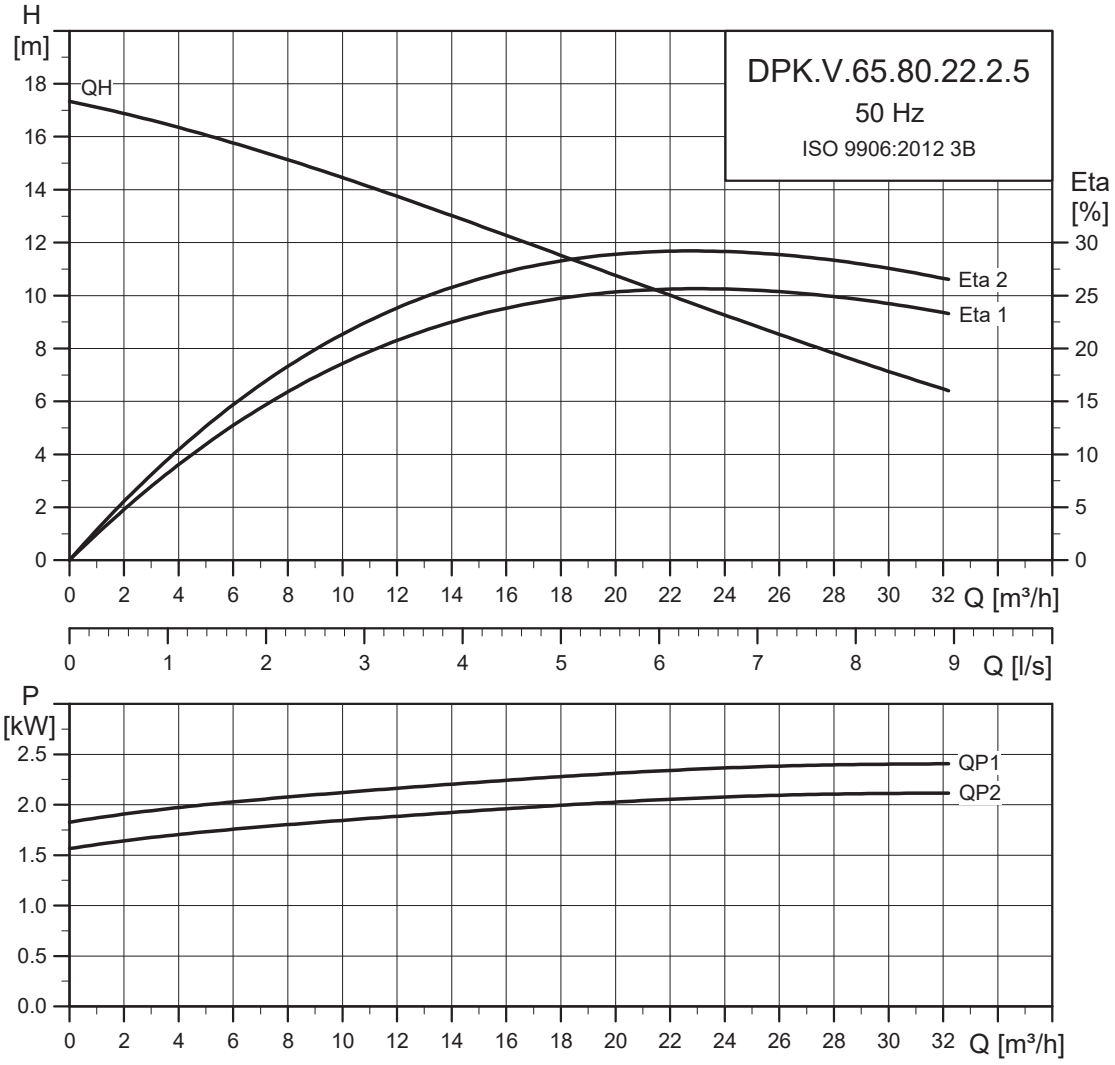
Electrical data

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.V.65.80.15.4.5.0D	3 × 380-415 Y	1.5	1415	DOL	3.4	76.6	80.0	78.8	0.69	0.79	0.84	4 × 1.5 mm^2 + 4 × 1.0 mm^2

Pump data

Pump type	Impeller type	Maximum solids size [mm]	Maximum number of starts per hour	Maximum installation depth [m]	Enclosure class	Insulation class	Maximum liquid temperature [°C]	pH
DPK.V.65.80.15.4	SuperVortex	65	20	20	68	F	40	4-10

9.7.3 DPK.V.65.80.22.2



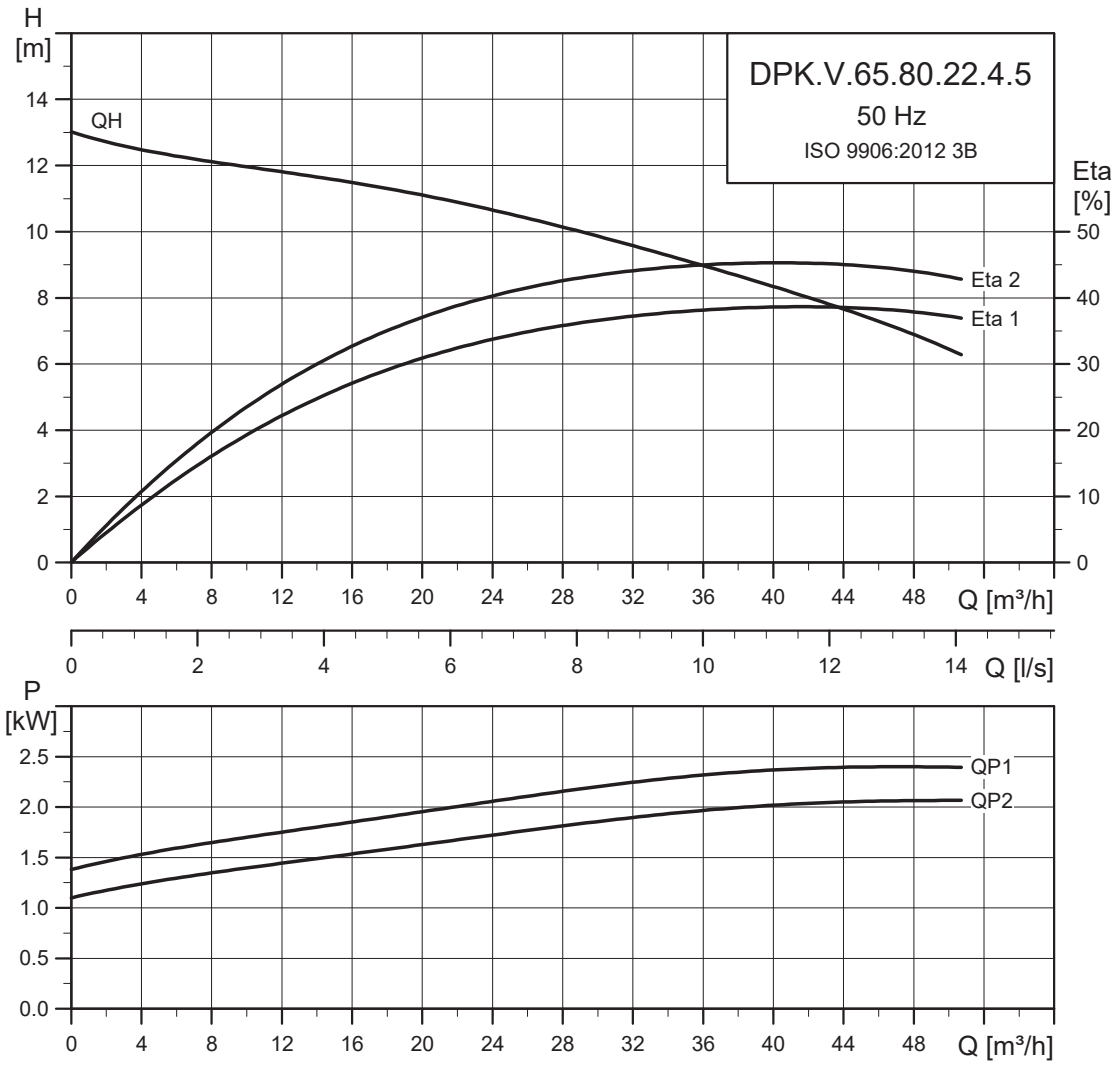
Electrical data

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.V.65.80.22.2.5.0D	3 × 380-415 Y	2.2	2850	DOL	4.2	79.8	83.1	86.1	0.71	0.82	0.89	4 × 1.5 mm^2 + 4 × 1.0 mm^2

Pump data

Pump type	Impeller type	Maximum solids size [mm]	Maximum number of starts per hour	Maximum installation depth [m]	Enclosure class	Insulation class	Maximum liquid temperature [°C]	pH
DPK.V.65.80.22.2	SuperVortex	65	20	20	68	F	40	4-10

9.7.4 DPK.V.65.80.22.4



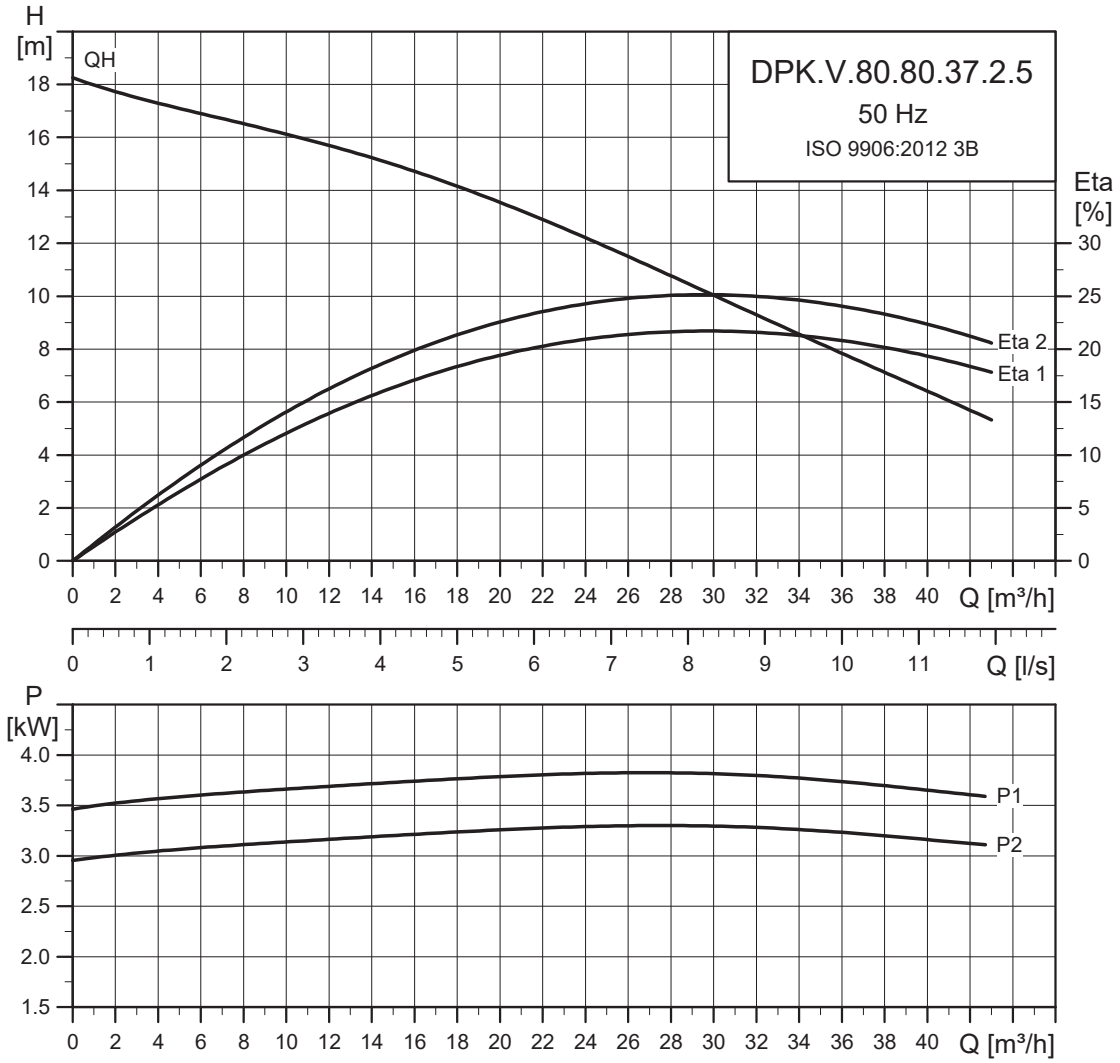
Electrical data

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.V.65.80.22.4.5.0D	3 × 380-415 Y	2.2	1412	DOL	4.9	77.2	80.1	79.2	0.70	0.80	0.85	4 × 1.5 mm^2 + 4 × 1.0 mm^2

Pump data

Pump type	Impeller type	Maximum solids size [mm]	Maximum number of starts per hour	Maximum installation depth [m]	Enclosure class	Insulation class	Maximum liquid temperature [°C]	pH
DPK.V.65.80.22.4	SuperVortex	65	20	20	68	F	40	4-10

9.7.5 DPK.V.80.80.37.2



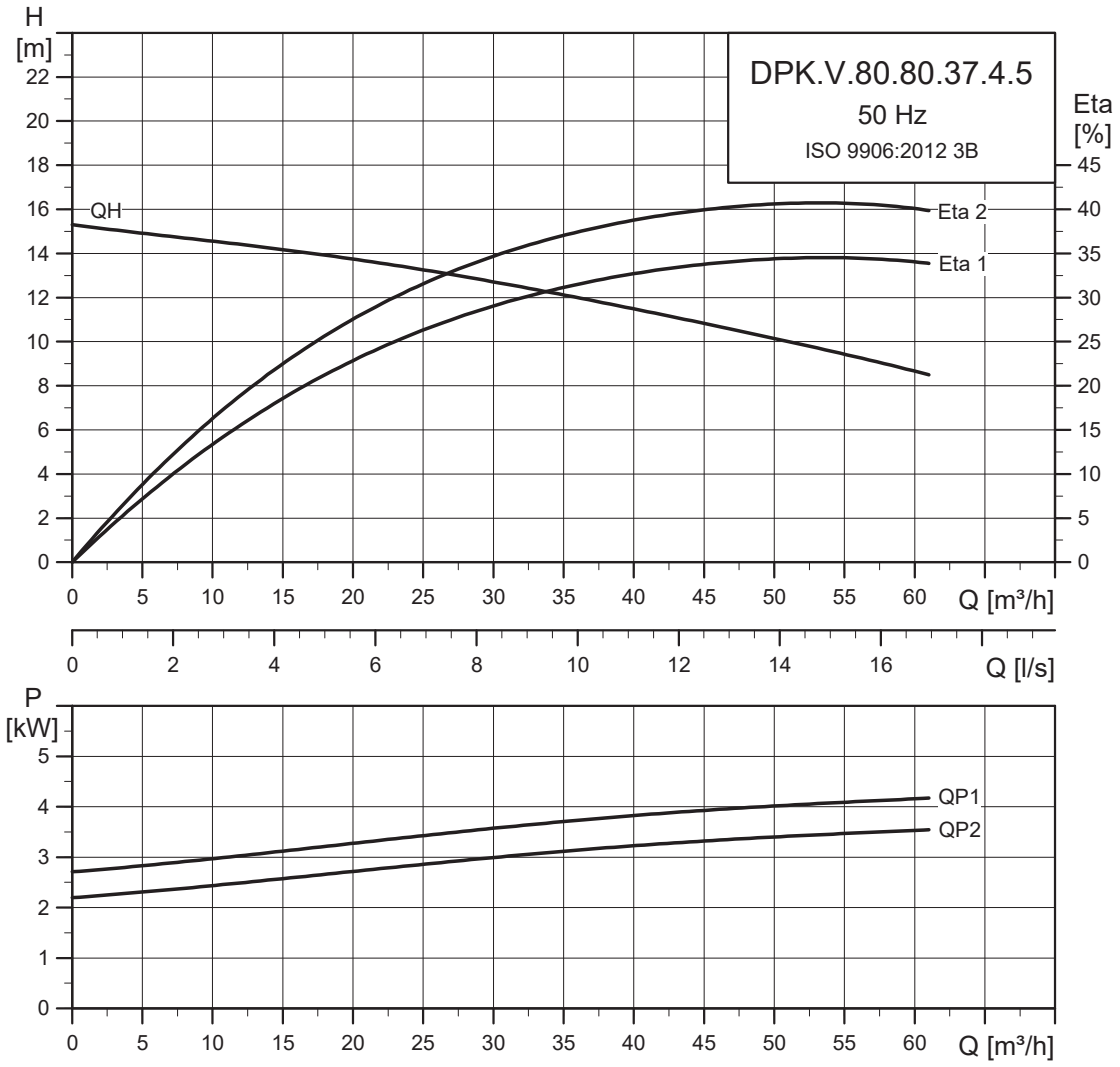
Electrical data

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.V.80.80.37.2.5.0D	3 × 380-415 Y	3.7	2850	DOL	6.7	85.0	86.6	86.9	0.79	0.87	0.92	4 × 1.5 mm^2 + 4 × 1.0 mm^2

Pump data

Pump type	Impeller type	Maximum solids size [mm]	Maximum number of starts per hour	Maximum installation depth [m]	Enclosure class	Insulation class	Maximum liquid temperature [°C]	pH
DPK.V.80.80.37.2	SuperVortex	80	20	20	68	F	40	4-10

9.7.6 DPK.V.80.80.37.4



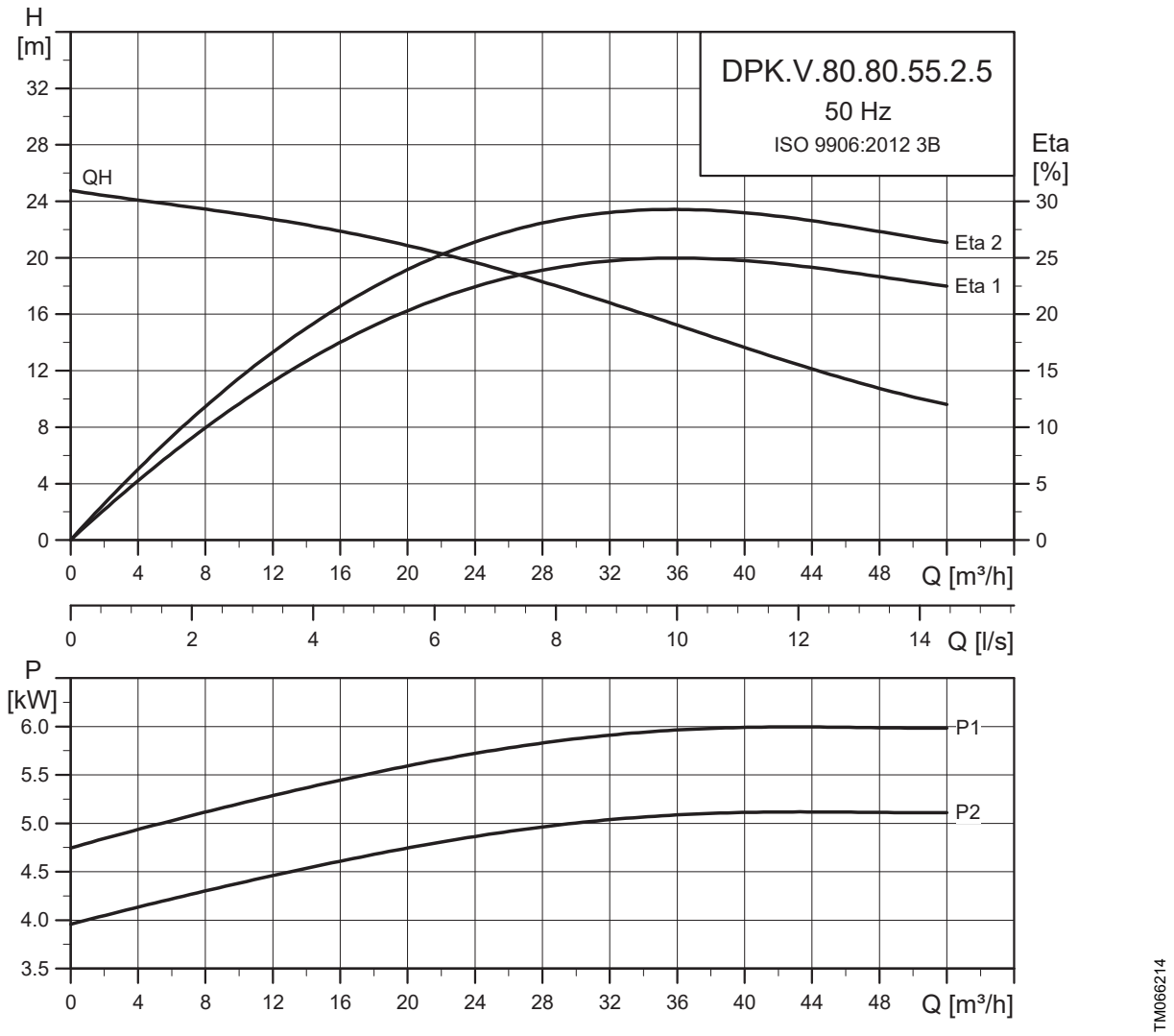
Electrical data

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.V.80.80.37.4.5.0D	3 × 380-415 Y	3.7	1446	DOL	7.7	81.6	85.2	84.5	0.71	0.80	0.84	4 × 1.5 mm^2 + 4 × 1.0 mm^2

Pump data

Pump type	Impeller type	Maximum solids size [mm]	Maximum number of starts per hour	Maximum installation depth [m]	Enclosure class	Insulation class	Maximum liquid temperature [°C]	pH
DPK.V.80.80.37.4	SuperVortex	80	20	20	68	F	40	4-10

9.7.7 DPK.V.80.80.55.2



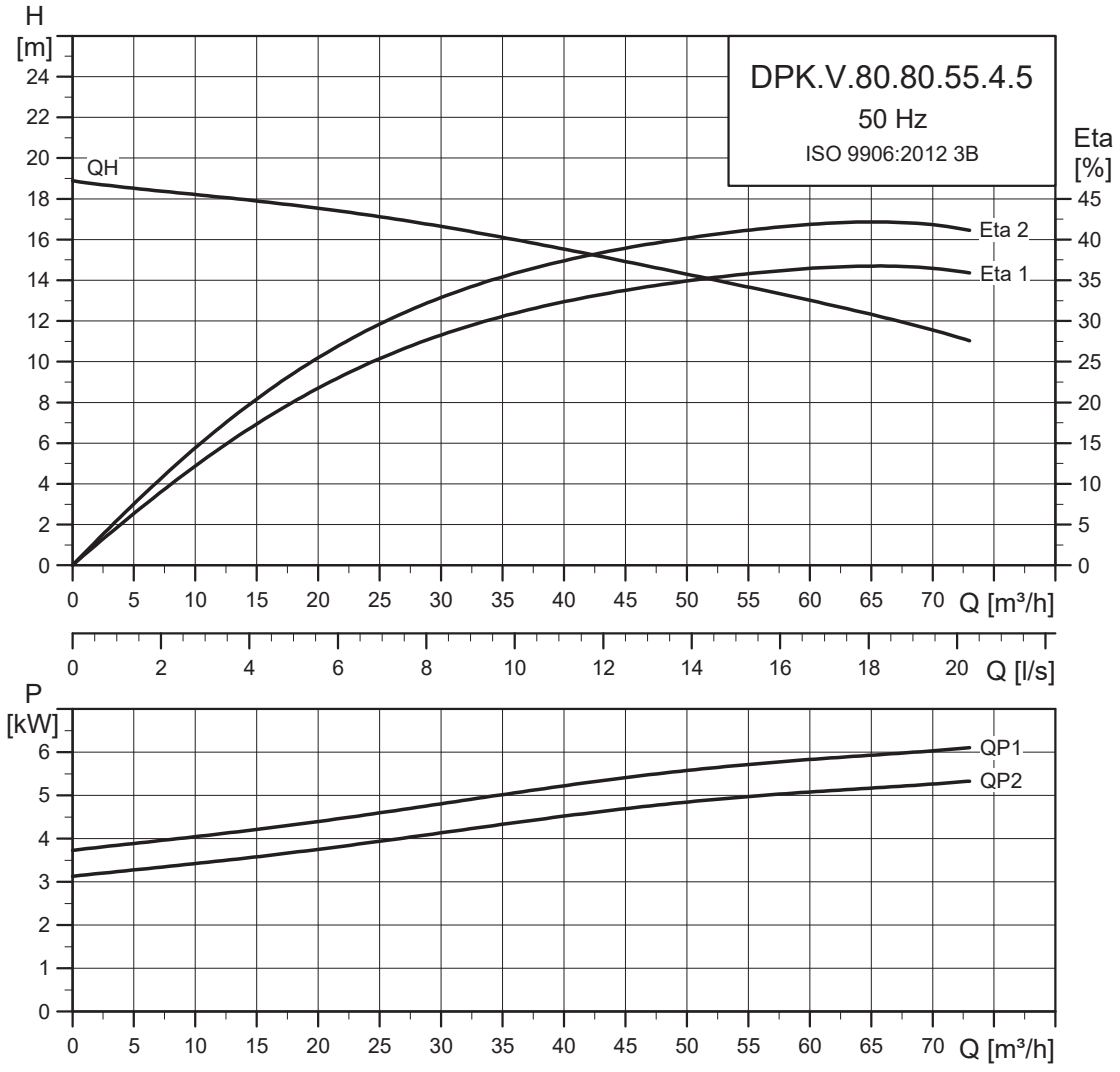
Electrical data

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.V.80.80.55.2.5.0D	3 × 380-415 Y	5.5	2850	DOL	10.3	83.7	85.2	86.3	0.79	0.86	0.90	4 × 2.5 mm^2 + 4 × 1.0 mm^2
DPK.V.80.80.55.2.5.1D	3 × 380-415 D	5.5	2850	Y/D	10.3	83.7	85.2	86.3	0.79	0.86	0.90	7 × 4.0 mm^2 + 4 × 1.0 mm^2

Pump data

Pump type	Impeller type	Maximum solids size [mm]	Maximum number of starts per hour	Maximum installation depth [m]	Enclosure class	Insulation class	Maximum liquid temperature [°C]	pH
DPK.V.80.80.55.2	SuperVortex	80	20	20	68	F	40	4-10

9.7.8 DPK.V.80.80.55.4



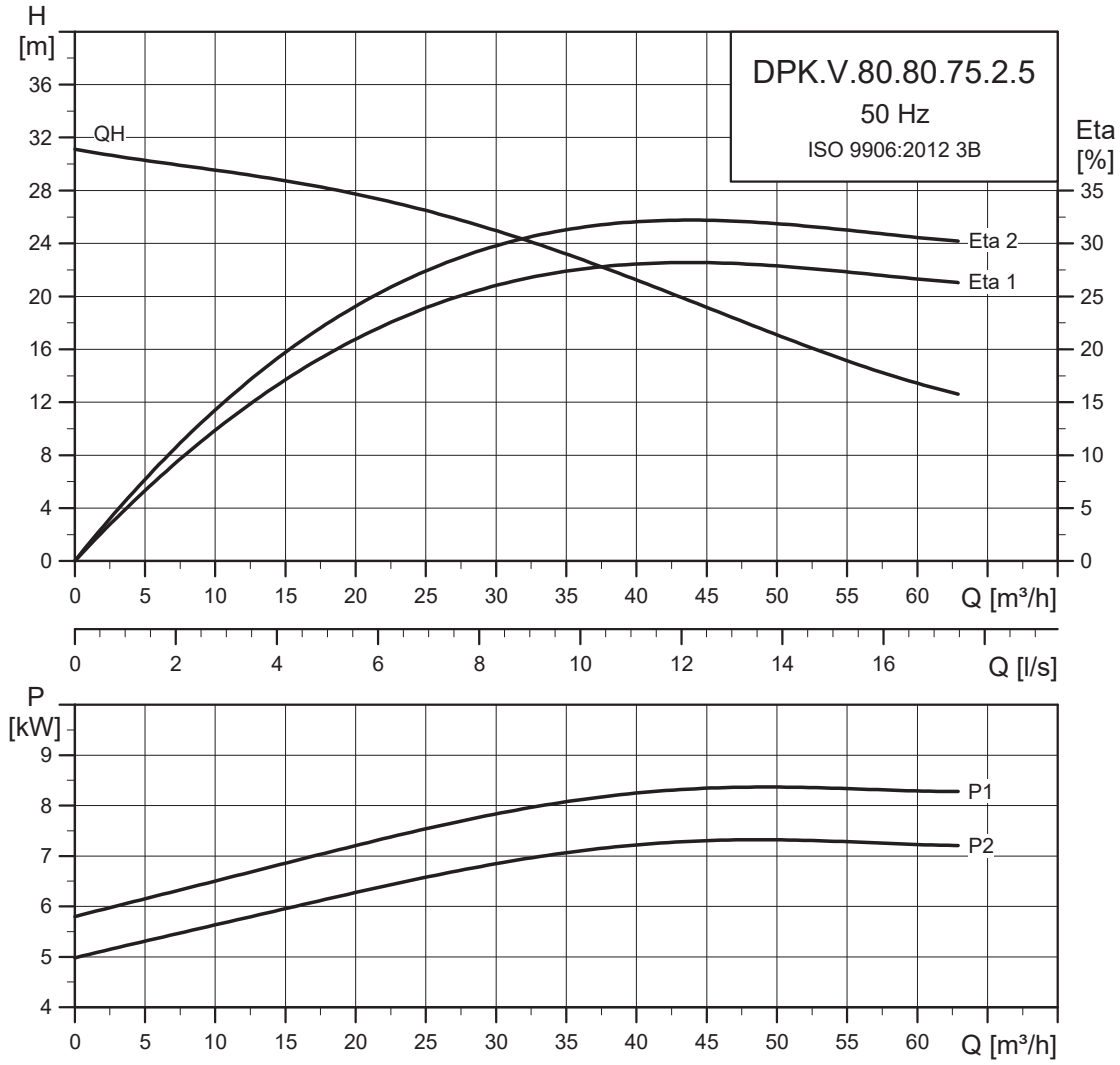
Electrical data

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.V.80.80.55.4.5.0D	3 × 380-415 Y	5.5	1140	DOL	11.2	81.7	85.4	84.8	0.725	0.81	0.86	4 × 2.5 mm^2 + 4 × 1.0 mm^2
DPK.V.80.80.55.4.5.1D	3 × 380-415 D	5.5	1140	Y/D	11.2	81.7	85.4	84.8	0.725	0.81	0.86	7 × 4.0 mm^2 + 4 × 1.0 mm^2

Pump data

Pump type	Impeller type	Maximum solids size [mm]	Maximum number of starts per hour	Maximum installation depth [m]	Enclosure class	Insulation class	Maximum liquid temperature [°C]	pH
DPK.V.80.80.55.4	SuperVortex	80	20	20	68	F	40	4-10

9.7.9 DPK.V.80.80.75.2



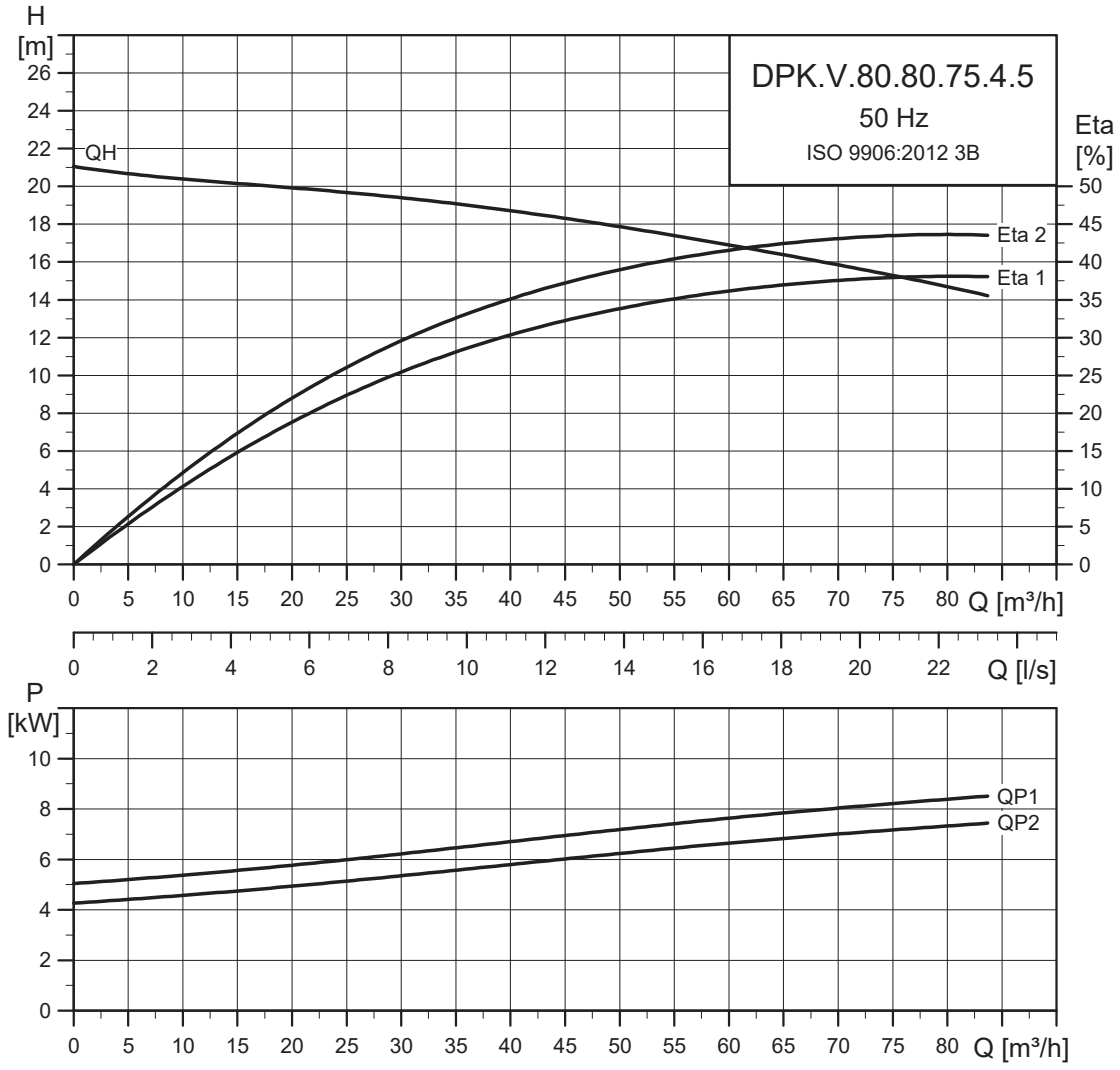
Electrical data

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.V.80.80.75.2.5.0D	3 × 380-415 Y	7.5	2850	DOL	13.5	86.4	86.8	88.7	0.83	0.88	0.91	4 × 4.0 mm^2 + 4 × 1.0 mm^2
DPK.V.80.80.75.2.5.1D	3 × 380-415 D	7.5	2850	Y/D	13.5	86.4	86.8	88.7	0.83	0.88	0.91	7 × 4.0 mm^2 + 4 × 1.0 mm^2

Pump data

Pump type	Impeller type	Maximum solids size [mm]	Maximum number of starts per hour	Maximum installation depth [m]	Enclosure class	Insulation class	Maximum liquid temperature [°C]	pH
DPK.V.80.80.75.2	SuperVortex	80	20	20	68	F	40	4-10

9.7.10 DPK.V.80.80.75.4



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.V.80.80.75.4.5.0D	3 × 380-415 Y	7.5	1440	DOL	14.9	82.8	86.1	85.8	0.73	0.81	0.87	4 × 4.0 mm^2 + 4 × 1.0 mm^2
DPK.V.80.80.75.4.5.1D	3 × 380-415 D	7.5	1440	Y/D	14.9	82.8	86.1	85.8	0.73	0.81	0.87	7 × 4.0 mm^2 + 4 × 1.0 mm^2

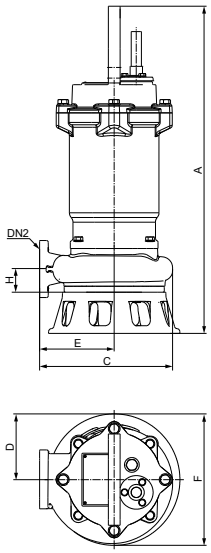
Pump data

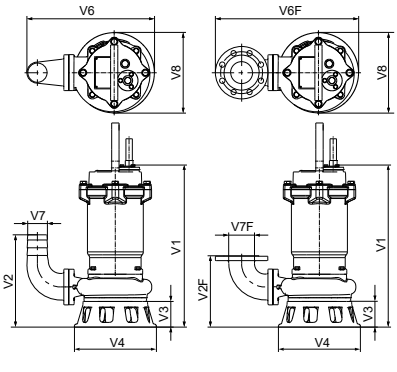
Pump type	Impeller type	Maximum solids size [mm]	Maximum number of starts per hour	Maximum installation depth [m]	Enclosure class	Insulation class	Maximum liquid temperature [°C]	pH
DPK.V.80.80.75.4	SuperVortex	80	20	20	68	F	40	4-10

10. Dimensions and weights

All weights are stated with 10 m cable.

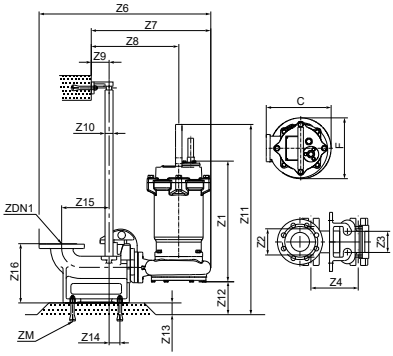
10.1 DPK





TM076868

Ring stand - hose connection, flange connection



TM076869

Auto coupling

TM076867

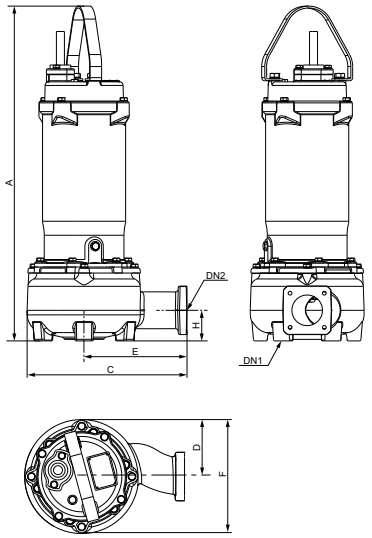
Without accessories

Inst. type	Pump type	Dimension [mm]								Weight [kg]
		A	C	D	E	F	H	DN1	DN2	
Without accessories	DPK.10.50.075	398	226	88	127	196	40	48	See section Outlet connection.	31
	DPK.10.50.15	428	226	88	127	196	40	48		35
	DPK.10.80.22	456	246	102	145	212	46	48		40
	DPK.15.80.30	575	279	119	160	246	39	75		47
	DPK.15.80.37	625	279	119	160	246	39	75		60
	DPK.15.80.55	792	380	142	222	317	66	75		113
	DPK.15.100.75	792	375	138	220	312	59	72		118
	DPK.20.100.110	840	375	151	220	325	59	90		166
	DPK.20.100.150	840	375	151	220	325	59	90		177
	DPK.20.150.190	1078	483	181	280	416	166	110		300
	DPK.20.150.220	1078	483	181	280	416	166	110		320

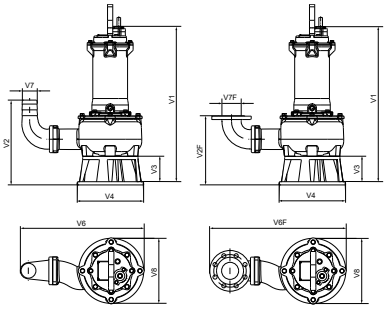
Inst. type	Pump type	Dimension [mm]									
		V1	V2	V2F	V3	V4	V6	V6F	V7	V7F	V8
Ring stand	DPK.10.50.075	425	232	202	70	223	354	384	50	50	223
	DPK.10.50.15	452	232	202	70	223	354	384	50	50	223
	DPK.10.80.22	498	306	230	85	235	415	477	74	80	235
	DPK.15.80.30	555	309	233	80	280	452	514	74	80	280
	DPK.15.80.37	597	309	233	80	280	452	514	74	80	280
	DPK.15.80.55	734	356	280	100	350	549	611	74	80	350
	DPK.15.100.75	734	384	309	100	350	572	630	100	100	350
	DPK.20.100.110	780	384	309	100	350	572	630	100	100	350
	DPK.20.100.150	780	384	309	100	350	572	630	100	100	350
	DPK.20.150.190	1168	581	430	90	380	708	778	150	150	416
	DPK.20.150.220	1168	581	430	90	380	708	778	150	150	416

Inst. type	Pump type	Dimension [mm]																	
		C	F	Z1	Z2	Z3	Z4	Z6	Z7	Z8	Z9	Z10	Z11	Z12	Z13	Z14	Z15	Z16	ZDN1	ZM
Auto coupling	DPK.10.50.075	226	196	355	120	70	120	569	396	284	50	33.7	558	160	50	28	140	250	50	4 × M16 × 200
	DPK.10.50.15	226	196	382	120	70	120	569	396	284	50	33.7	588	160	50	28	140	250	50	4 × M16 × 200
	DPK.10.80.22	246	212	413	130	90	200	685	460	342	75	33.7	610	154	50	46	200	250	80	4 × M16 × 200
	DPK.15.80.30	279	246	475	130	90	200	701	476	357	75	33.7	736	161	50	46	200	250	80	4 × M16 × 200
	DPK.15.80.37	279	246	517	130	90	200	701	476	357	75	33.7	786	161	50	46	200	250	80	4 × M16 × 200
	DPK.15.80.55	380	317	634	130	90	200	802	577	419	75	33.7	926	134	50	46	200	250	80	4 × M16 × 200
	DPK.15.100.75	375	312	634	150	90	200	870	585	430	75	42.1	983	191	50	51	250	350	100	4 × M16 × 200
	DPK.20.100.110	375	325	680	150	90	200	884	599	430	75	42.1	1031	191	50	51	250	350	100	4 × M16 × 200
	DPK.20.100.150	375	325	680	150	90	200	884	599	430	75	42.1	1031	191	50	51	250	350	100	4 × M16 × 200
	DPK.20.150.190	483	416	1078	300	150	300	1086	743	540	90	48.6	1242	164	80	65	290	450	150	4 × M20 × 200
	DPK.20.150.220	483	416	1078	300	150	300	1086	743	540	90	48.6	1242	164	80	65	290	450	150	4 × M20 × 200

10.2 DPK.V

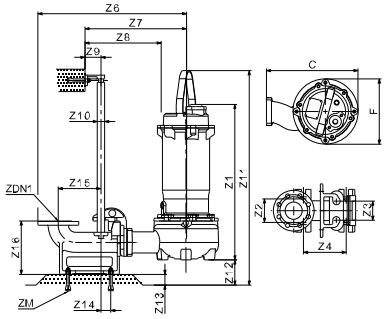


TM076898



Pump dimensions on ring stand

TM077634



TM076899

Pump dimensions on auto coupling

Pump dimensions without accessories

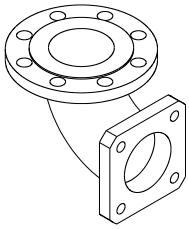
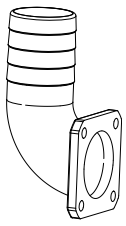
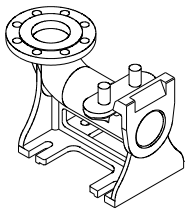
Inst. type	Pump type	Dimension [mm]								Weight [kg]
		A	C	D	E	F	H	DN1	DN2	
Without accessories	DPK.V.65.80.15.2	548	372	125	247	250	103	65	See 7.1 Outlet connections	58.6
	DPK.V.65.80.15.4	715	410	165	245	329	85	65		75.5
	DPK.V.65.80.22.2	568	372	125	247	250	103	65		62.6
	DPK.V.65.80.22.4	715	410	165	245	329	85	65		78.5
	DPK.V.80.80.37.2	728	429	153	276	306	82	80		79.9
	DPK.V.80.80.37.4	895	460	193	267	386	92	80		116.1
	DPK.V.80.80.55.2.5.0D	886	429	153	276	306	82	80		107.4
	DPK.V.80.80.55.2.5.1D									107.5
	DPK.V.80.80.55.4	895	460	193	267	386	92	80		120.7
	DPK.V.80.80.75.2.5.0D	886	429	153	276	306	82	80		114.6
	DPK.V.80.80.75.2.5.1D									119.7
	DPK.V.80.80.75.4	895	460	193	267	386	92	80		130.0

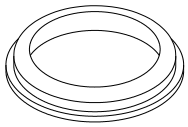
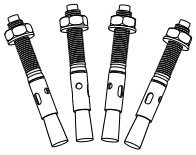
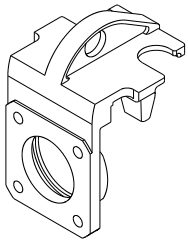
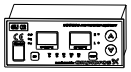
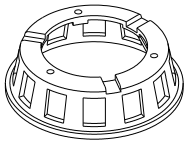
Inst. type	Pump type	Dimension [mm]									
		V1	V2	V2F	V3	V4	V6	V6F	V7	V7F	V8
Ring stand	DPK.V.65.80.15.2	636	421	345	128	330	564	626	80	80	330
	DPK.V.65.80.15.4	737	405	329	130	351	574	635	80	80	351
	DPK.V.65.80.22.2	656	421	345	128	330	564	626	80	80	330
	DPK.V.65.80.22.4	737	405	329	130	351	574	635	80	80	351
	DPK.V.80.80.37.2	748	402	326	130	351	604	665.5	80	80	351
	DPK.V.80.80.37.4	867	412	336	130	351	612	674	80	80	351
	DPK.V.80.80.55.2	858	402	326	130	351	604	665.5	80	80	351
	DPK.V.80.80.55.4	867	412	336	130	351	612	674	80	80	351
	DPK.V.80.80.75.2	858	402	326	130	351	604	665.5	80	80	351
	DPK.V.80.80.75.4	867	412	336	130	351	612	674	80	80	351

Inst. type	Pump type	Dimension [mm]																	
		C	F	Z1	Z2	Z3	Z4	Z6	Z7	Z8	Z9	Z10	Z11	Z12	Z13	Z14	Z15	Z16	ZDN1	ZM
Auto coupling	DPK.V.65.80.15.2	372	250	508	130	90	200	834	609	444	75	33.7	644	97	50	46	200	250	80	4 × M16 × 200
	DPK.V.65.80.15.4	410	329	607	130	90	200	843	619	442	75	33.7	831	115	50	46	200	250	80	4 × M16 × 200
	DPK.V.65.80.22.2	372	250	528	130	90	200	834	609	444	75	33.7	664	97	50	46	200	250	80	4 × M16 × 200
	DPK.V.65.80.22.4	410	329	607	130	90	200	843	619	442	75	33.7	831	115	50	46	200	250	80	4 × M16 × 200
	DPK.V.80.80.37.2	429	306	618	130	90	200	851	626	473	75	33.7	846	118	50	46	200	250	80	4 × M16 × 200
	DPK.V.80.80.37.4	460	386	737	130	90	200	882	657	464	75	33.7	1003	108	50	46	200	250	80	4 × M16 × 200
	DPK.V.80.80.55.2	429	306	728	130	90	200	851	626	473	75	33.7	1004	118	50	46	200	250	80	4 × M16 × 200
	DPK.V.80.80.55.4	460	386	737	130	90	200	882	657	464	75	33.7	1003	108	50	46	200	250	80	4 × M16 × 200
	DPK.V.80.80.75.2	429	306	728	130	90	200	851	626	473	75	33.7	1004	118	50	46	200	250	80	4 × M16 × 200
	DPK.V.80.80.75.4	460	386	737	130	90	200	882	657	464	75	33.7	1003	108	50	46	200	250	80	4 × M16 × 200

11. Accessories

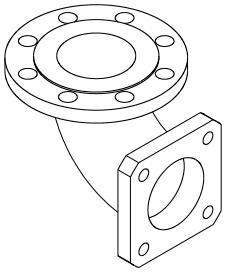
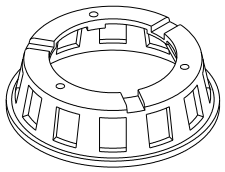
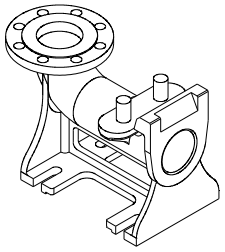
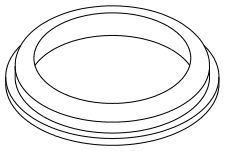
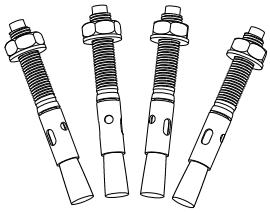
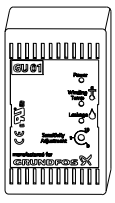
11.1 DPK

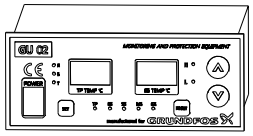
Pictures	Description		Dimensions	DPK [kW]											Product number
				0.75	1.5	2.2	3.0	3.7	5.5	7.5	11	15	19	22	
 TM017173	Lifting chain 320 kg SS with shackle		2 m	•	•	•	•	•	•	•	•	•	•	•	98989662
			3 m	•	•	•	•	•	•	•	•	•	•	•	98989664
			4 m	•	•	•	•	•	•	•	•	•	•	•	98989666
			6 m	•	•	•	•	•	•	•	•	•	•	•	98989668
			8 m	•	•	•	•	•	•	•	•	•	•	•	98989670
			10 m	•	•	•	•	•	•	•	•	•	•	•	98989672
	Stainless steel (304), wire with shackle		3 m										•	•	Contact Grundfos
			4 m										•	•	
			6 m										•	•	
			8 m										•	•	
			10 m										•	•	
 TM068943	Outlet elbow with: • flange • gasket and bolts	DIN	50 mm	•	•										96922609
			80 mm			•	•	•	•						96922610
			100 mm							•	•	•			96922611
			150 mm										•	•	96922612
		JIS	50 mm	•	•										96922605
			80 mm			•	•	•	•						96922606
			100 mm							•	•	•			96922607
			150 mm										•	•	96922608
		ANSI	2"	•	•										96922613
			3"			•	•	•	•						96922614
			4"							•	•	•			96922615
			6"										•	•	96922616
	Outlet elbow for hose connection including gasket and bolts		50 mm	•	•										96922617
			74 mm			•	•	•	•						96922618
			100 mm							•	•	•			96922619
			150 mm										•	•	96922620
 TM068942	Complete auto-coupling unit with: • base stand • guide shoe • guide rail bracket • bolts and gasket	DIN	50 mm	•	•										96922625
			80 mm			•	•	•	•						96936832
			100 mm							•	•	•			96922627
			150 mm										•	•	96922628
		JIS	50 mm	•	•										96922621
			80 mm			•	•	•	•						96922622
			100 mm							•	•	•			96922623
			150 mm										•	•	96922624
		ANSI	2"	•	•										96922629
			3"			•	•	•	•						96922630
			4"							•	•	•			96922631
			6"										•	•	96922632

Pictures	Description	Dimensions	DPK [kW]										Product number
			0.75	1.5	2.2	3.0	3.7	5.5	7.5	11	15	19	22	
 TM068945	Hydraulic seal	50 mm	•	•										96936839
		80 mm			•	•	•	•						96936840
		100 mm							•	•	•			96936841
		150 mm										•	•	96936842
 TM068947	Anchor bolts for auto coupling	ADC-T 50 mm	•	•										96922633
		ADC-T 80 mm			•	•	•	•						96922634
		ADC-T 100 mm							•	•	•			96922635
		ADC-T 150 mm										•	•	96922636
 TM068944	Guide shoe for Grundfos base plate	DN 80			•	•	•	•						99133495
		DN 80 / DN 100			•	•	•	•						9913349
 TM068950	GU01 monitoring system [1]		•	•	•	•	•	•	•	•	•	•	•	96922603
 TM068951	GU02 monitoring system					•	•	•	•	•	•	•	•	96922604
 TM068946	Ring stand with screws and washers	Outlet 80 mm				•	•							96936843
		Outlet 100 mm						•	•	•	•			96936844
		Outlet 150 mm										•	•	96936827
	LC 231		•	•	•	•	•	•	•	•	•	•	•	Contact Grundfos
 TM072139	LC 241		•	•	•	•	•	•	•	•	•	•	•	Contact Grundfos

[1] For the Chinese market, available upon request.

11.2 DPK.V

Pictures	Description		Dimensions	DPK.V [kW]					Product number
				1.5	2.2	3.7	5.5	7.5	
 TM068943	Outlet elbow with flange including gasket and bolts	DIN	80 mm	•	•	•	•	•	96922610
		JIS	80 mm	•	•	•	•	•	96922606
		ANSI	3"	•	•	•	•	•	96922614
	Outlet elbow for hose connection with gasket and bolts		80 mm	•	•	•	•	•	96922618
 TM068946	Ring stand including screws and washers for free-standing installation		Outlet 80 mm	•	•	•	•	•	98832022
	Ring stand including screws and washers for free-standing installation. Note: Only for 2-pole pumps.		Outlet 80 mm	•	•				98981831
 TM068942	Auto coupling (ADC-T) with: • base stand • guide shoe • guide rail bracket • hydraulic seal • screws and gasket.	DIN	80 mm	•	•	•	•	•	96936832
		JIS	80 mm	•	•	•	•	•	96922622
		ANSI	3"	•	•	•	•	•	96922630
 TM068945	Hydraulic seal		80 mm	•	•	•	•	•	96936840
 TM068947	Anchor bolts for auto coupling (ADC-T)		ADC-T 80 mm	•	•	•	•	•	96922634
 TM017173	Lifting chain 320 kg SS with shackle, DoC, certificate and work instructions		2 m	•	•	•	•	•	98989662
			3 m	•	•	•	•	•	98989664
			4 m	•	•	•	•	•	98989666
			6 m	•	•	•	•	•	98989668
			6 m	•	•	•	•	•	98989670
			10 m	•	•	•	•	•	98989672
	Adaptors for T-model with accessories		80-80 connection	•	•	•	•	•	98980062
			100-80 connection	•	•	•	•	•	99033566
 TM068950	GU01 monitoring system [1]			•	•	•	•	•	96922603

Pictures	Description	Dimensions	DPK.V [kW]					Product number
			1.5	2.2	3.7	5.5	7.5	
 TM068951	GU02 monitoring system		•	•	•	•	•	96922604
	LC 231		•	•	•	•	•	Contact Grundfos
 TM072139	LC 241		•	•	•	•	•	Contact Grundfos

[1] For the Chinese market, available upon request.

12. Grundfos Product Center

Online search and sizing tool to help you make the right choice.
From the international view, you can select your specific country to view the product range available to you.
International view: *https://product-selection.grundfos.com*

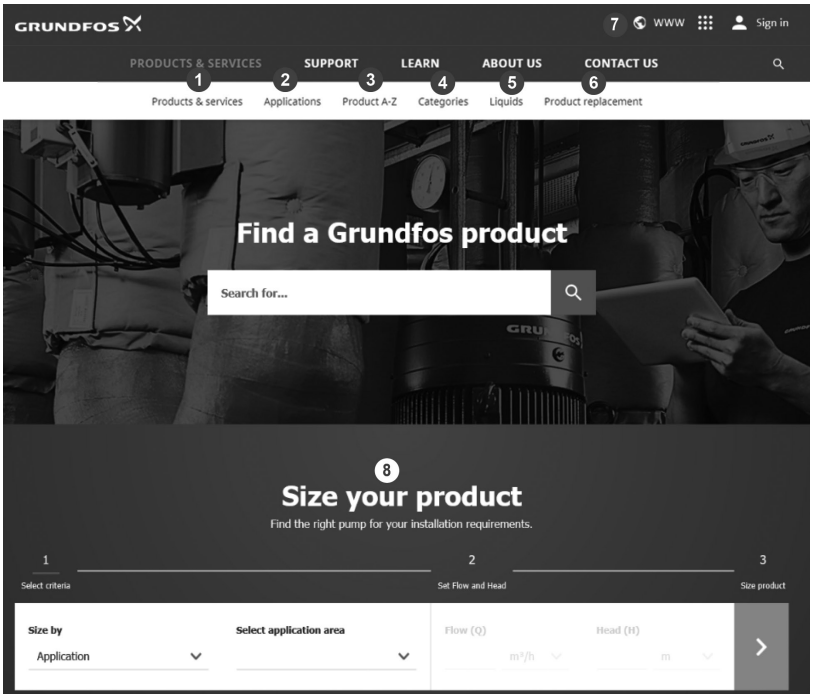
All the information you need in one place

Performance curves, technical specifications, pictures, dimensional drawings, motor curves, wiring diagrams, spare parts, service kits, 3D drawings, documents, system parts. The Product Center displays any recent and saved items - including complete projects - right on the main page.

Downloads

On the product pages, you can download installation and operating instructions, data booklets, service instructions, etc., in PDF format.





When you select your country, you see the menus below. Note that some menus may not be available depending on the country.
Example: *https://product-selection.grundfos.com/uk*

Pos.	Description
1	**Products & services** enables you to find products and documents by typing a product number or name into the search field.
2	**Applications** enables you to choose an application to see how Grundfos can help you design and optimize your system.
3	**Products A-Z** enables you to look through a list of all the Grundfos products.
4	**Categories** enables you to look for a product category.
5	**Liquids** enables you to find pumps designed for aggressive, flammable or other special liquids.
6	**Product replacement** enables you to find a suitable replacement.
7	**WWW** enables you to select the country, which changes the language, the available product range and the structure of the website.
8	**Sizing** enables you to size a product based on your application and operating conditions.

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