

KPL, KPG and KWM

11-700 kW, 50 Hz DIN



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1. Introduction



TM073692

KPL, KPG and KWM pumps

This data booklet describes Grundfos submersible axial-flow KPL propeller pumps, KPG gate pumps and mixed-flow KWM pumps.

The KPL, KPG and KWM pumps are fitted with 11-700 kW motors. The motors are either 4-, 6-, 8-, 10-, 12-, 14-, 16-, 18- or 20-pole motors, depending on the motor size.

The pumps are made of resistant materials, such as cast iron and stainless steel. These materials ensure high durability in storm- and wastewater applications.

KPL and KWM pumps are designed for vertical and submerged installation. KPG pumps are designed for vertical and horizontal submerged installation.

For installation recommendations and Computational Fluid Dynamics (CFD) simulation, contact Grundfos.

1.1 Applications

KPL, KPG and KWM pumps are designed for pumping storm- and wastewater in a wide range of municipal and industrial applications, such as:

- flood and stormwater control
- drainage and irrigation of large quantities of water
- raw-water intake
- transfer of liquids in large-scale municipal sewage treatment plants
- circulation of large quantities of water, for example in water theme parks
- fish farming.

1.2 Features

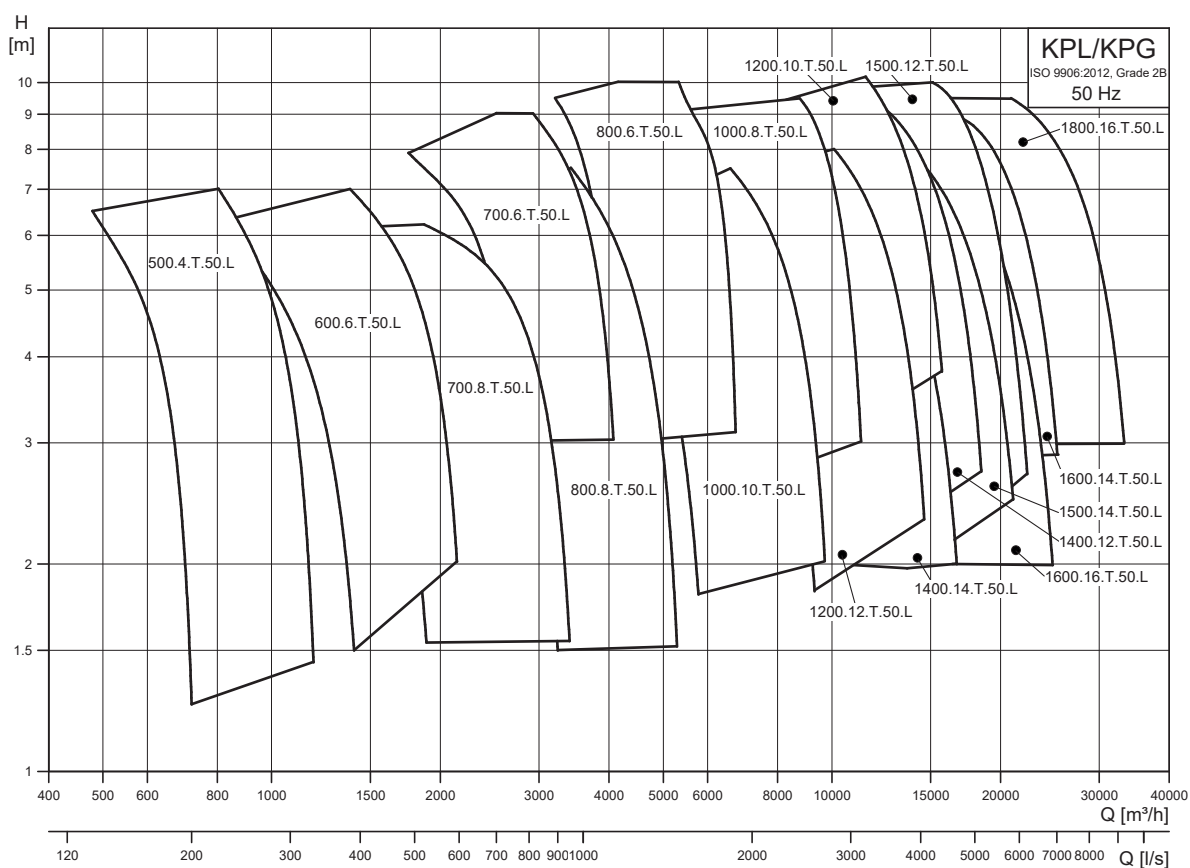
- Compact design for easy handling and installation
- High flow at low head for high versatility
- Easy maintenance
- KPL and KPG: the propeller is designed for the duty point of the pump
- KPG EB: the propellers for bi-directional KPG pumps are designed for operation in both directions
- KWM: the mixed-flow impeller is designed for the duty point of the pump
- Double mechanical shaft seal system for reliable sealing between the pumped liquid and the motor
- Watertight cable entry with dual sealing system (two-component epoxy casting and double rubber grommets)
- Two moisture switches for continuous monitoring of stator housing and terminal box. They ensure automatic disconnection of power in case of leakage
- Self-cleaning hydraulics reduce the risk of jamming and clogging
- Motor insulation class F (155 °C) as standard:
 - temperature rise class F (as standard) or B (optional), service factor 1.10
 - enclosure class IP68
 - stator windings have 3 bimetallic thermal sensors.
 - Pt100 sensor in each winding (one connected, as standard).
- Monitoring of shaft-seal condition by water-in-oil (WIO) sensor (optional)
- Pt100 sensors in upper and lower bearings.

2. Performance range

The figures below indicate the performance range of KPL, KPG and KWM pumps and provide an overview of the size and motor variants.

Note: For information about the performance range of each individual pump, see performance curves and technical data.

KPL and KPG pumps fitted with low head hydraulics (KPL.L and KPG.L)

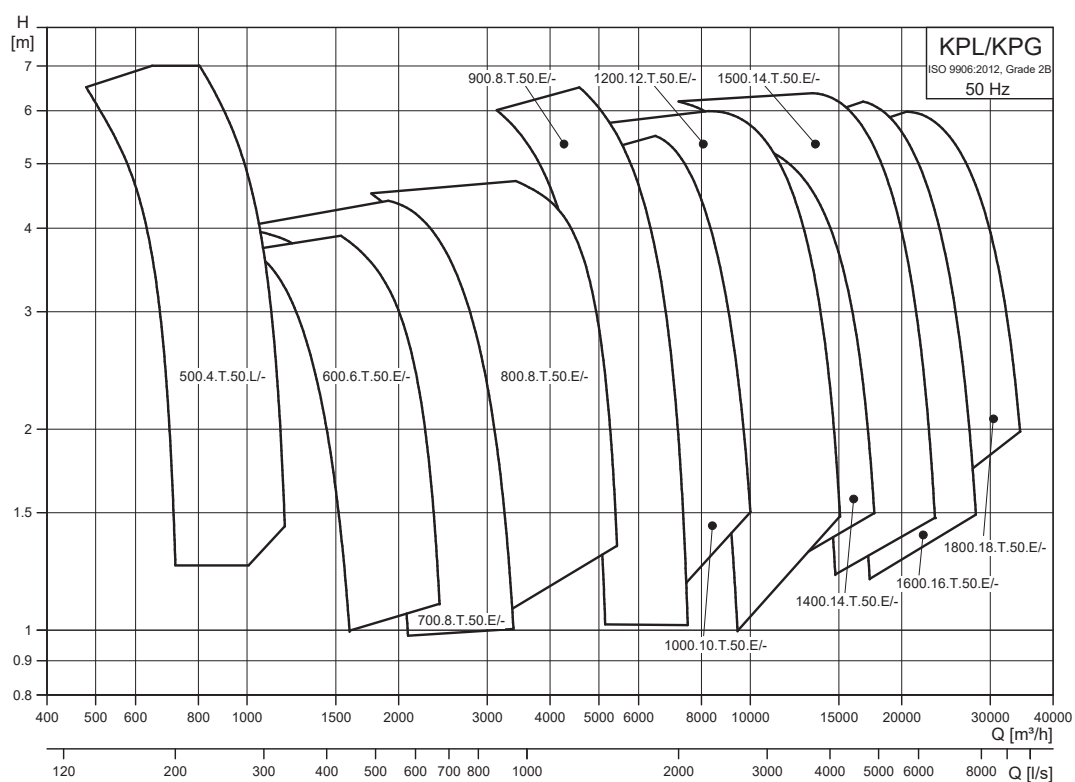


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Performance range, KPL.L and KPG.L (low head hydraulic variants)

Note: KPG pumps fitted with low head hydraulic are available with 11 to 22 kW motors.

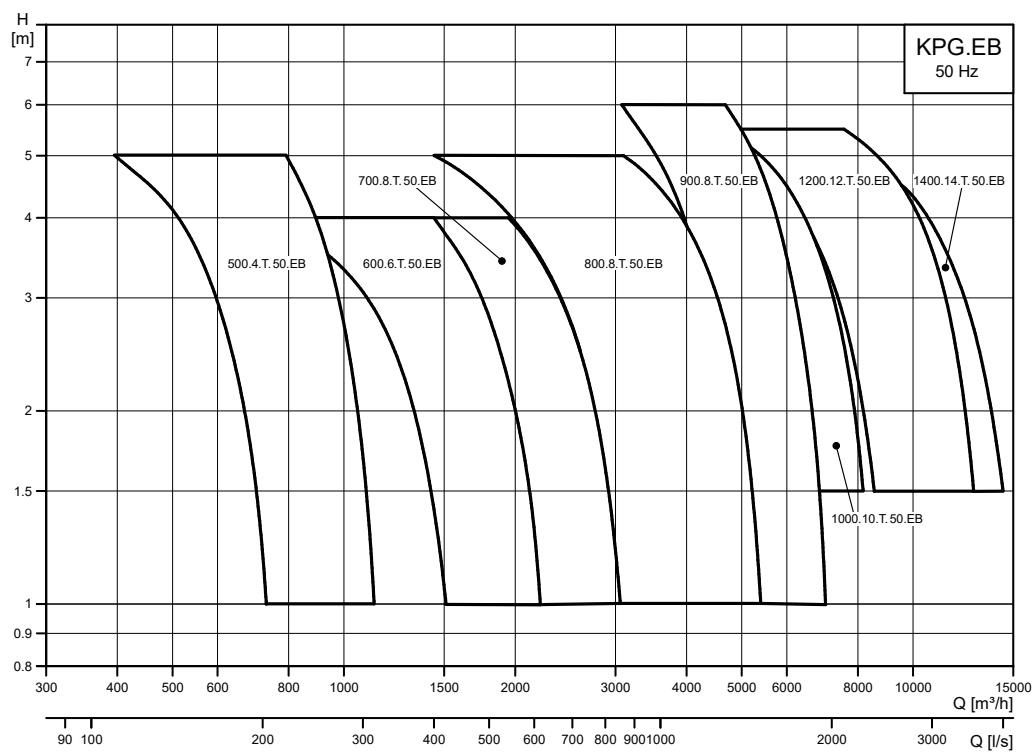
KPL and KPG pumps fitted with Extra-low head hydraulics (KPL.E and KPG.E)



TM065097

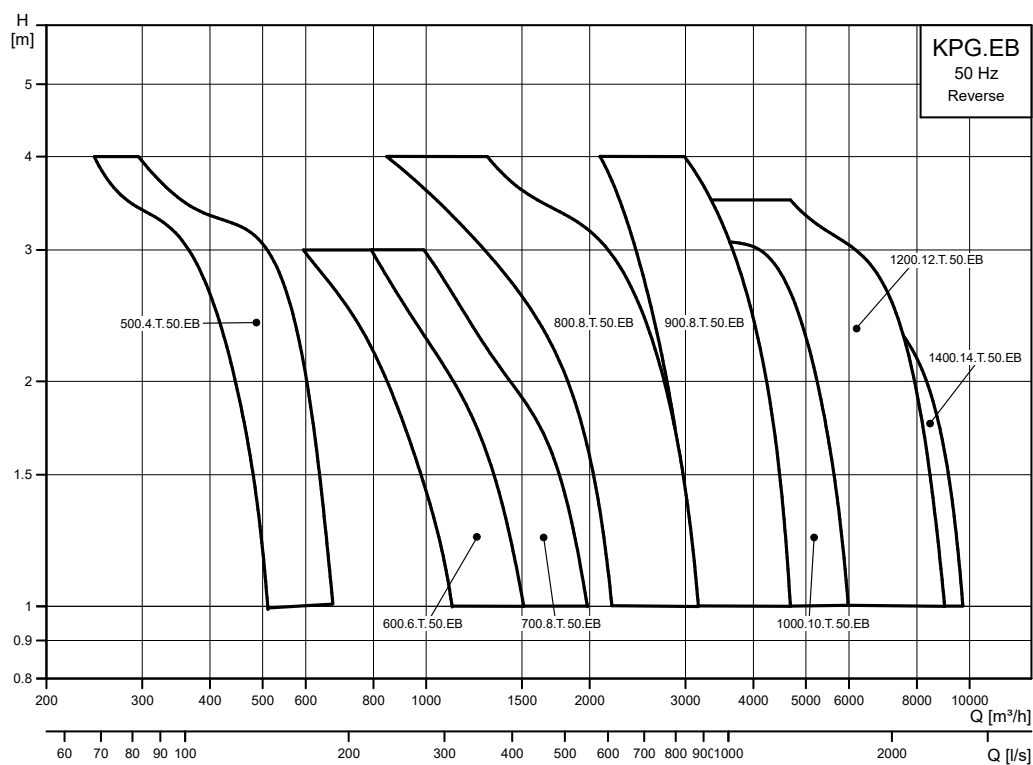
Performance range, KPG.E and KPL.E (Extra-low head hydraulic variants)

KPG.EB bi-directional gate pumps fitted with Extra-low head hydraulics (KPG.EB)



TM079671

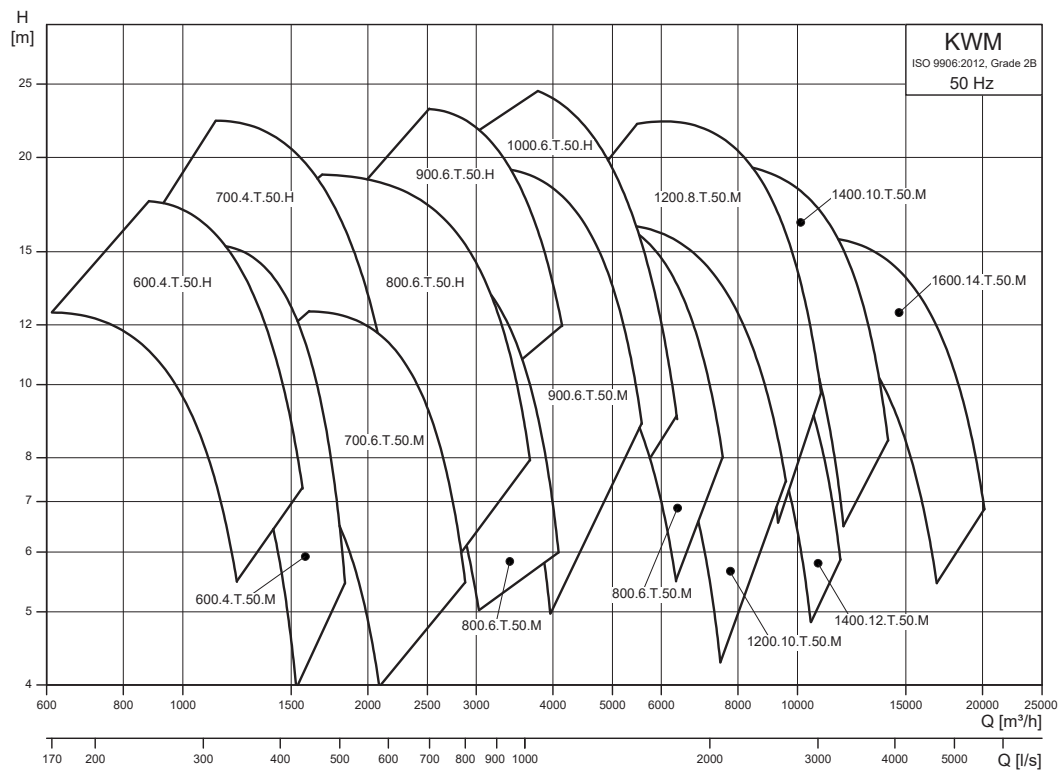
Performance range, forward operation



TM079672

Performance range, reverse operation

KWM pumps fitted with Medium (M) - or High head (H) hydraulics (KWM.M and KWM.H)



TM062166

Performance range, KWM.M/KWM.H (Medium (M) - and High (H) head hydraulic variants)

3. Identification

3.1 Type key

All KPL, KPG and KWM pumps are identified by the type designation stated in the order confirmation and other documentation supplied with the pump. The pump types are not available in all variants.

Example: KPL.600.19.6.T.50.9.L.40

Example: KPG.600.19.6.T.50.9.E.40

Example: KWM.600.45.4.T.50.315.M.38

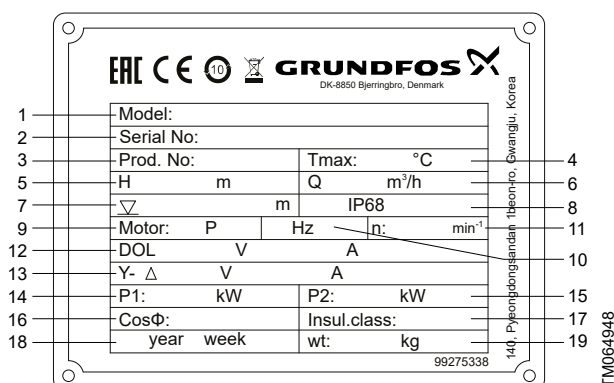
Code	Description	Explanation
KPL	Submersible axial-flow pump	Pump type
KPG	Submersible axial-flow gate pump	
KWM	Submersible mixed-flow pump	
600	DN 600	Column pipe diameter
19	Output power P2	Power [kW]
45		
6	6-pole	Number of poles
T	Three-phase motor	Number of phases
50	50 Hz	Frequency
9	9	KPL and KPG propeller number
315	Impeller number	KWM impeller number
L	KPL - Low head	Pump range and pressure
E	KPL/KPG - Extra-low head	
M	KWM - Medium head	
38	380 V	Voltage
40	400 V	
Z	Custom-built variant	Customisation

Pos.	Description
5 ¹	Duty-point flow head
	Best-efficiency-point head
	Max. head
6 ¹	Duty-point flow rate
	Best-efficiency-point flow rate
	Max. flow rate
7	Max. installation depth
8	Enclosure class according to IEC 60529
9	Number of poles
10	Frequency
11	Rated speed
12	Voltage and current, delta connection
13	Voltage and current, star connection
14	input power
15	Shaft power
16	Power factor
17	Insulation class
18	Production code (year and week)
19	Pump weight

¹ The values indicated for duty-point head and duty-point flow rate are standards. Other values are available on request.

3.2 Nameplate

The nameplate is on the top cover of the pump. The extra nameplate supplied with the pump must be fixed at the installation site.



Nameplate for KPL, KPG and KWM

Pos.	Description
1	Type designation
2	Serial number
3	Product number
4	Max. ambient temperature

4. Product selection

4.1 Ordering the product

Prior to ordering a pump, take the following into consideration:

- pump type
- custom-built variant (option)
- accessories
- controller
- cable suspension system.

Note: Cable suspension system is a mandatory requirement for all column installed KPL and KWM pumps.

4.2 Pump

Use the product ranges and the performance curves to identify the most suitable pump.

Note: For wastewater treatment, select a motor with one size larger motor power (P2) than the size indicated on the curves.

For example, if KPL.650.30.6.T.50.21 is selected with a 30 kW motor, consider selecting a similar pump with a 37 kW motor, such as: KPL.650.37.6.T.50.21.

The list below is a detailed description of an ordered pump:

Pump	Product number
KPL.500.11.4.T.50.9.L.40	99265355

- Pump as specified in the type key
- 10 m cable
- Paint: black, NCS 9000N/RAL 9005, gloss code 30, thickness 150 µm
- Three bimetal sensors in the stator / one Pt100 sensor in the stator and one in the lower and upper bearings
- Two moisture switches: one in the terminal box and one in the motor housing
- Test tolerances according to ISO 9906:2012 grade 2B.

Note: Product-specific data can be found in Grundfos Product Center by using the product number 99265355.

4.3 Custom-built variants

KPL, KPG and KWM pumps can be customised to meet individual requirements. Several pump features and options are available for customising, such as various cable lengths, duty point verification reports or special materials.

4.4 Accessories

Depending on the installation type, accessories may be required. For pumps installed in a column, a cable suspension system is mandatory to avoid cable damage, which may result in motor breakdown.

Note: Ordered accessories are not fitted at the factory.

4.5 Control units

The following Grundfos solutions can be connected to KPL, KPG and KWM pumps:

- CUE up to 250 kW variable speed drive
- Dedicated Controls (DC)
- MP 204 electronic motor protection
- IO 113 and SM 113 electrical sensor modules.

Related information

[7.3.2 IO 113](#)

[7.3.3 SM 113](#)

[7.3.4 CU 362 operating panel](#)

[7.3.5 MP 204](#)

5. Product range

5.1 KPL pumps

5.1.1 KPL 500

Pump type	Product number		Starting method	Cable length [m]	Pressure range	No of poles
	400 [V]	380 [V]				
KPL.500.11.4.T.50.9.L	99265355	99551726	Star-delta (Y/D)	10	Low	4
KPL.500.11.4.T.50.11.L	99265356	99551727	Star-delta (Y/D)	10	Low	4
KPL.500.15.4.T.50.9.L	99265362	99551728	Star-delta (Y/D)	10	Low	4
KPL.500.15.4.T.50.11.L	99265363	99236564	Star-delta (Y/D)	10	Low	4
KPL.500.15.4.T.50.13.L	99265364	99551730	Star-delta (Y/D)	10	Low	4
KPL.500.15.4.T.50.15.L	99265365	99551731	Star-delta (Y/D)	10	Low	4
KPL.500.15.4.T.50.17.L	99265366	99551732	Star-delta (Y/D)	10	Low	4
KPL.500.19.4.T.50.15.L	99265372	99551733	Star-delta (Y/D)	10	Low	4
KPL.500.19.4.T.50.17.L	99265373	99551734	Star-delta (Y/D)	10	Low	4
KPL.500.19.4.T.50.19.L	99265374	99551735	Star-delta (Y/D)	10	Low	4
KPL.500.19.4.T.50.21.L	99265375	99551736	Star-delta (Y/D)	10	Low	4
KPL.500.22.4.T.50.19.L	99265381	99551737	Star-delta (Y/D)	10	Low	4
KPL.500.22.4.T.50.21.L	99265382	99551738	Star-delta (Y/D)	10	Low	4

5.1.2 KPL 600

Pump type	Product number		Starting method	Cable length [m]	Pressure range	No of poles
	400 [V]	380 [V]				
KPL.600.19.6.T.50.9.L	99265383	99551739	Star-delta (Y/D)	10	Low	6
KPL.600.19.6.T.50.11.L	99265384	99551740	Star-delta (Y/D)	10	Low	6
KPL.600.19.6.T.50.13.L	99265385	99551741	Star-delta (Y/D)	10	Low	6
KPL.600.22.6.T.50.9.L	99265390	99551742	Star-delta (Y/D)	10	Low	6
KPL.600.22.6.T.50.11.L	99265392	99551743	Star-delta (Y/D)	10	Low	6
KPL.600.22.6.T.50.13.L	99265393	99551744	Star-delta (Y/D)	10	Low	6
KPL.600.22.6.T.50.15.L	99265394	99551745	Star-delta (Y/D)	10	Low	6
KPL.600.19.6.T.50.9.E	99265733	99359313	Star-delta (Y/D)	10	Extra low	6
KPL.600.19.6.T.50.11.E	99265734	99296128	Star-delta (Y/D)	10	Extra low	6
KPL.600.19.6.T.50.13.E	99265735	99551748	Star-delta (Y/D)	10	Extra low	6
KPL.600.19.6.T.50.15.E	99265736	99551749	Star-delta (Y/D)	10	Extra low	6
KPL.600.19.6.T.50.17.E	99265737	99551750	Star-delta (Y/D)	10	Extra low	6
KPL.600.22.6.T.50.15.E	99265743	99551751	Star-delta (Y/D)	10	Extra low	6
KPL.600.22.6.T.50.17.E	99265744	99551752	Star-delta (Y/D)	10	Extra low	6
KPL.600.22.6.T.50.19.E	99265745	99551753	Star-delta (Y/D)	10	Extra low	6
KPL.600.22.6.T.50.21.E	99265746	99551754	Star-delta (Y/D)	10	Extra low	6

5.1.3 KPL 650

Pump type	Product number		Starting method	Cable length [m]	Pressure range	No of poles
	400 [V]	380 [V]				
KPL.650.30.6.T.50.15.L.40	99265402	99551755	Star-delta (Y/D)	10	Low	6
KPL.650.30.6.T.50.17.L.40	99265403	99551756	Star-delta (Y/D)	10	Low	6
KPL.650.30.6.T.50.19.L.40	99265404	99551757	Star-delta (Y/D)	10	Low	6
KPL.650.30.6.T.50.21.L.40	99265405	99551758	Star-delta (Y/D)	10	Low	6

5.1.4 KPL 700

Pump type	Product number		Starting method	Cable length [m]	Pressure range	No of poles
	400 [V]	380 [V]				
KPL.700.90.6.T.50.15.L	99250861	-	Soft starter	10	Low	6
KPL.700.55.6.T.50.9.L	99265414	99551760	Star-delta (Y/D)	10	Low	6
KPL.700.55.6.T.50.11.L	99265415	99551761	Star-delta (Y/D)	10	Low	6
KPL.700.55.6.T.50.13.L	99265416	99551762	Star-delta (Y/D)	10	Low	6
KPL.700.75.6.T.50.13.L	99265423	99551763	Star-delta (Y/D)	10	Low	6
KPL.700.75.6.T.50.15.L	99265424	99551764	Star-delta (Y/D)	10	Low	6
KPL.700.75.6.T.50.17.L	99265425	99551765	Star-delta (Y/D)	10	Low	6
KPL.700.75.6.T.50.19.L	99265426	99551766	Star-delta (Y/D)	10	Low	6
KPL.700.75.6.T.50.21.L	99265427	99551767	Star-delta (Y/D)	10	Low	6
KPL.700.90.6.T.50.19.L	99265432	99551768	Direct-on-line (DOL)	10	Low	6
KPL.700.90.6.T.50.21.L	99265433	99551769	Direct-on-line (DOL)	10	Low	6
KPL.700.110.6.T.50.21.L	99265440	99551770	Direct-on-line (DOL)	10	Low	6

Pump type	Product number		Starting method	Cable length [m]	Pressure range	No of poles
	400 [V]	380 [V]				
KPL.700.30.8.T.50.9.L	99265441	99551771	Star-delta (Y/D)	10	Low	8
KPL.700.30.8.T.50.11.L	99265442	99551772	Star-delta (Y/D)	10	Low	8
KPL.700.30.8.T.50.13.L	99265443	99551773	Star-delta (Y/D)	10	Low	8
KPL.700.30.8.T.50.15.L	99265445	99551774	Star-delta (Y/D)	10	Low	8
KPL.700.37.8.T.50.13.L	99265452	99551775	Star-delta (Y/D)	10	Low	8
KPL.700.37.8.T.50.15.L	99265453	99551776	Star-delta (Y/D)	10	Low	8
KPL.700.37.8.T.50.17.L	99265454	99551777	Star-delta (Y/D)	10	Low	8
KPL.700.37.8.T.50.19.L	99265455	99551779	Star-delta (Y/D)	10	Low	8
KPL.700.37.8.T.50.21.L	99265456	99551780	Star-delta (Y/D)	10	Low	8
KPL.700.45.8.T.50.19.L	99265463	99551781	Star-delta (Y/D)	10	Low	8
KPL.700.45.8.T.50.21.L	99265464	99551782	Star-delta (Y/D)	10	Low	8
KPL.700.45.8.T.50.23.L	99265465	99551783	Star-delta (Y/D)	10	Low	8
KPL.700.22.8.T.50.9.E	99265748	99551784	Star-delta (Y/D)	10	Extra low	8
KPL.700.22.8.T.50.11.E	99265749	99551785	Star-delta (Y/D)	10	Extra low	8
KPL.700.22.8.T.50.13.E	99265750	99551786	Star-delta (Y/D)	10	Extra low	8
KPL.700.22.8.T.50.15.E	99265751	99551787	Star-delta (Y/D)	10	Extra low	8
KPL.700.22.8.T.50.17.E	99265752	99551788	Star-delta (Y/D)	10	Extra low	8
KPL.700.30.8.T.50.13.E	99265758	99551789	Star-delta (Y/D)	10	Extra low	8
KPL.700.30.8.T.50.15.E	99265759	99551790	Star-delta (Y/D)	10	Extra low	8
KPL.700.30.8.T.50.17.E	99265760	99551791	Star-delta (Y/D)	10	Extra low	8
KPL.700.30.8.T.50.19.E	99265761	99551792	Star-delta (Y/D)	10	Extra low	8
KPL.700.30.8.T.50.21.E	99265762	99551793	Star-delta (Y/D)	10	Extra low	8
KPL.700.37.8.T.50.21.E	99265770	99551794	Star-delta (Y/D)	10	Extra low	8
KPL.700.37.8.T.50.23.E	99265771	99551795	Star-delta (Y/D)	10	Extra low	8

5.1.5 KPL 800

Pump type	Product number		Starting method	Cable length [m]	Pressure range	No of poles
	400 [V]	380 [V]				
KPL.800.110.6.T.50.9.L	99265466	99551796	Direct-on-line (DOL)	10	Low	6
KPL.800.110.6.T.50.11.L	99265467	99551797	Direct-on-line (DOL)	10	Low	6
KPL.800.110.6.T.50.13.L	99265468	99551798	Direct-on-line (DOL)	10	Low	6
KPL.800.110.6.T.50.15.L	99265469	99551799	Direct-on-line (DOL)	10	Low	6

Pump type	Product number		Starting method	Cable length [m]	Pressure range	No of poles
	400 [V]	380 [V]				
KPL.800.45.8.T.50.9.L	99265498	99551800	Star-delta (Y/D)	10	Low	8
KPL.800.45.8.T.50.11.L	99265499	99551801	Star-delta (Y/D)	10	Low	8
KPL.800.55.8.T.50.9.L	99265506	99551802	Star-delta (Y/D)	10	Low	8
KPL.800.55.8.T.50.11.L	99265507	99551813	Star-delta (Y/D)	10	Low	8
KPL.800.55.8.T.50.13.L	99265508	99551814	Star-delta (Y/D)	10	Low	8
KPL.800.55.8.T.50.15.L	99265509	99551815	Star-delta (Y/D)	10	Low	8
KPL.800.55.8.T.50.17.L	99265510	99551816	Star-delta (Y/D)	10	Low	8
KPL.800.75.8.T.50.13.L	99265516	99551817	Star-delta (Y/D)	10	Low	8
KPL.800.75.8.T.50.15.L	99265517	99551818	Star-delta (Y/D)	10	Low	8
KPL.800.75.8.T.50.17.L	99265518	99551819	Star-delta (Y/D)	10	Low	8
KPL.800.75.8.T.50.19.L	99265519	99551820	Star-delta (Y/D)	10	Low	8
KPL.800.75.8.T.50.21.L	99265520	99551821	Star-delta (Y/D)	10	Low	8
KPL.800.75.8.T.50.23.L	99265521	99551822	Star-delta (Y/D)	10	Low	8
KPL.800.90.8.T.50.15.L	99265525	99551823	Direct-on-line (DOL)	10	Low	8
KPL.800.90.8.T.50.17.L	99265526	99551824	Direct-on-line (DOL)	10	Low	8
KPL.800.90.8.T.50.19.L	99265527	99551825	Direct-on-line (DOL)	10	Low	8
KPL.800.90.8.T.50.21.L	99265528	99551826	Direct-on-line (DOL)	10	Low	8
KPL.800.90.8.T.50.23.L	99265529	99551827	Direct-on-line (DOL)	10	Low	8
KPL.800.37.8.T.50.9.E	99265773	99551828	Star-delta (Y/D)	10	Extra low	8
KPL.800.37.8.T.50.11.E	99265774	99551829	Star-delta (Y/D)	10	Extra low	8
KPL.800.37.8.T.50.13.E	99265775	99551830	Star-delta (Y/D)	10	Extra low	8
KPL.800.45.8.T.50.11.E	99265781	99551831	Star-delta (Y/D)	10	Extra low	8
KPL.800.45.8.T.50.13.E	99265782	99551832	Star-delta (Y/D)	10	Extra low	8
KPL.800.45.8.T.50.15.E	99265783	99298445	Star-delta (Y/D)	10	Extra low	8
KPL.800.45.8.T.50.17.E	99265784	99551834	Star-delta (Y/D)	10	Extra low	8
KPL.800.55.8.T.50.15.E	99265790	99551835	Star-delta (Y/D)	10	Extra low	8
KPL.800.55.8.T.50.17.E	99265791	99551836	Star-delta (Y/D)	10	Extra low	8
KPL.800.55.8.T.50.19.E	99265792	99551837	Star-delta (Y/D)	10	Extra low	8
KPL.800.55.8.T.50.21.E	99265793	99551838	Star-delta (Y/D)	10	Extra low	8
KPL.800.75.8.T.50.19.E	99265799	99551839	Star-delta (Y/D)	10	Extra low	8
KPL.800.75.8.T.50.21.E	99265800	99551840	Star-delta (Y/D)	10	Extra low	8
KPL.800.75.8.T.50.23.E	99355488	99551841	Star-delta (Y/D)	10	Extra low	8

5.1.6 KPL 900

Pump type	Product number		Starting method	Cable length [m]	Pressure range	No of poles
	400 [V]	380 [V]				
KPL.900.132.6.T.50.13.L	99265476	99551842	Direct-on-line (DOL)	10	Low	6
KPL.900.132.6.T.50.15.L	99265477	99551843	Direct-on-line (DOL)	10	Low	6
KPL.900.132.6.T.50.17.L	99265478	99551844	Direct-on-line (DOL)	10	Low	6
KPL.900.132.6.T.50.19.L	99265479	99551845	Direct-on-line (DOL)	10	Low	6
KPL.900.160.6.T.50.17.L	99265486	99551846	Direct-on-line (DOL)	10	Low	6
KPL.900.160.6.T.50.19.L	99265487	99551847	Direct-on-line (DOL)	10	Low	6

Pump type	Product number		Starting method	Cable length [m]	Pressure range	No of poles
	400 [V]	380 [V]				
KPL.900.160.6.T.50.21.L	99265488	99551848	Direct-on-line (DOL)	10	Low	6
KPL.900.160.6.T.50.23.L	99265489	99551849	Direct-on-line (DOL)	10	Low	6
KPL.900.200.6.T.50.21.L	99265496	99551850	Direct-on-line (DOL)	10	Low	6
KPL.900.200.6.T.50.23.L	99265497	99551851	Direct-on-line (DOL)	10	Low	6

Pump type	Product number		Starting method	Cable length [m]	Pressure range	No of poles
	400 [V]	380 [V]				
KPL.900.55.8.T.50.9.E	99265801	99551852	Star-delta (Y/D)	10	Extra low	8
KPL.900.75.8.T.50.9.E	99265807	99551853	Star-delta (Y/D)	10	Extra low	8
KPL.900.75.8.T.50.11.E	99265808	99551854	Star-delta (Y/D)	10	Extra low	8
KPL.900.75.8.T.50.13.E	99265809	99551855	Star-delta (Y/D)	10	Extra low	8
KPL.900.75.8.T.50.15.E	99265810	99551856	Star-delta (Y/D)	10	Extra low	8
KPL.900.90.8.T.50.11.E	99265814	99551857	Direct-on-line (DOL)	10	Extra low	8
KPL.900.90.8.T.50.13.E	99265815	99551858	Direct-on-line (DOL)	10	Extra low	8
KPL.900.90.8.T.50.15.E	99265816	99551859	Direct-on-line (DOL)	10	Extra low	8
KPL.900.90.8.T.50.17.E	99265817	99551860	Direct-on-line (DOL)	10	Extra low	8
KPL.900.110.8.T.50.15.E	99265822	99551861	Direct-on-line (DOL)	10	Extra low	8
KPL.900.110.8.T.50.17.E	99265823	99551862	Direct-on-line (DOL)	10	Extra low	8
KPL.900.110.8.T.50.19.E	99265824	99551863	Direct-on-line (DOL)	10	Extra low	8

5.1.7 KPL 1000

Pump type	Product number		Starting method	Cable length [m]	Pressure range	No of poles
	400 [V]	380 [V]				
KPL.1000.132.8.T.50.9.L	99265530	99551864	Direct-on-line (DOL)	10	Low	8
KPL.1000.132.8.T.50.11.L	99265531	99551865	Direct-on-line (DOL)	10	Low	8
KPL.1000.160.8.T.50.9.L	99265537	99551866	Direct-on-line (DOL)	10	Low	8
KPL.1000.160.8.T.50.11.L	99265538	99551867	Direct-on-line (DOL)	10	Low	8
KPL.1000.160.8.T.50.13.L	99265539	99551868	Direct-on-line (DOL)	10	Low	8
KPL.1000.160.8.T.50.15.L	99265540	99551869	Direct-on-line (DOL)	10	Low	8
KPL.1000.200.8.T.50.13.L	99265546	99551870	Direct-on-line (DOL)	10	Low	8
KPL.1000.200.8.T.50.15.L	99265547	99551871	Direct-on-line (DOL)	10	Low	8
KPL.1000.200.8.T.50.17.L	99265548	99551872	Direct-on-line (DOL)	10	Low	8
KPL.1000.200.8.T.50.19.L	99265549	99551873	Direct-on-line (DOL)	10	Low	8
KPL.1000.250.8.T.50.17.L	99265555	99551874	Direct-on-line (DOL)	10	Low	8
KPL.1000.250.8.T.50.19.L	99265556	99551875	Direct-on-line (DOL)	10	Low	8
KPL.1000.250.8.T.50.21.L	99265557	99551876	Direct-on-line (DOL)	10	Low	8
KPL.1000.300.8.T.50.19.L	99265563	99551877	Direct-on-line (DOL)	10	Low	8
KPL.1000.300.8.T.50.21.L	99265564	99551878	Direct-on-line (DOL)	10	Low	8

Pump type	Product number		Starting method	Cable length [m]	Pressure range	No of poles
	400 [V]	380 [V]				
KPL.1000.90.10.T.50.9.L	99265565	99551880	Direct-on-line (DOL)	10	Low	10
KPL.1000.90.10.T.50.11.L	99265566	99551881	Direct-on-line (DOL)	10	Low	10
KPL.1000.90.10.T.50.13.L	99265567	99551882	Direct-on-line (DOL)	10	Low	10
KPL.1000.132.10.T.50.13.L	99265575	99551883	Direct-on-line (DOL)	10	Low	10
KPL.1000.132.10.T.50.15.L	99265576	99551884	Direct-on-line (DOL)	10	Low	10
KPL.1000.132.10.T.50.17.L	99265577	99551885	Direct-on-line (DOL)	10	Low	10
KPL.1000.132.10.T.50.19.L	99265578	99551886	Direct-on-line (DOL)	10	Low	10
KPL.1000.160.10.T.50.19.L	99265587	99551887	Direct-on-line (DOL)	10	Low	10
KPL.1000.160.10.T.50.21.L	99265588	99551888	Direct-on-line (DOL)	10	Low	10
KPL.1000.160.10.T.50.23.L	99265589	99551889	Direct-on-line (DOL)	10	Low	10
KPL.1000.200.10.T.50.23.L	99265597	99551890	Direct-on-line (DOL)	10	Low	10
KPL.1000.75.10.T.50.9.E	99265825	99551891	Direct-on-line (DOL)	10	Extra low	10
KPL.1000.75.10.T.50.11.E	99265826	99551892	Direct-on-line (DOL)	10	Extra low	10

Pump type	Product number		Starting method	Cable length [m]	Pressure range	No of poles
	400 [V]	380 [V]				
KPL.1000.75.10.T.50.13.E	99265827	99551893	Direct-on-line (DOL)	10	Extra low	10
KPL.1000.90.10.T.50.11.E	99265834	99551894	Direct-on-line (DOL)	10	Extra low	10
KPL.1000.90.10.T.50.13.E	99265835	99551895	Direct-on-line (DOL)	10	Extra low	10
KPL.1000.90.10.T.50.15.E	99265836	99551896	Direct-on-line (DOL)	10	Extra low	10
KPL.1000.90.10.T.50.17.E	99265837	99551897	Direct-on-line (DOL)	10	Extra low	10
KPL.1000.90.10.T.50.19.E	99265838	99551898	Direct-on-line (DOL)	10	Extra low	10
KPL.1000.132.10.T.50.15.E	99265844	99551899	Direct-on-line (DOL)	10	Extra low	10
KPL.1000.132.10.T.50.17.E	99265845	99551900	Direct-on-line (DOL)	10	Extra low	10
KPL.1000.132.10.T.50.19.E	99265846	99551901	Direct-on-line (DOL)	10	Extra low	10
KPL.1000.132.10.T.50.21.E	99265847	99551902	Direct-on-line (DOL)	10	Extra low	10
KPL.1000.132.10.T.50.23.E	99265848	99551903	Direct-on-line (DOL)	10	Extra low	10

5.1.8 KPL 1200

Pump type	Product number		Starting method	Cable length [m]	Pressure range	No of poles
	400 [V]	380 [V]				
KPL.1200.220.10.T.50.9.L	99265598	99551904	Direct-on-line (DOL)	10	Low	10
KPL.1200.220.10.T.50.11.L	99265599	99551905	Direct-on-line (DOL)	10	Low	10
KPL.1200.220.10.T.50.13.L	99265600	99551906	Direct-on-line (DOL)	10	Low	10
KPL.1200.250.10.T.50.11.L	99265606	99551907	Direct-on-line (DOL)	10	Low	10
KPL.1200.250.10.T.50.13.L	99265607	99070770	Direct-on-line (DOL)	10	Low	10
KPL.1200.250.10.T.50.15.L	99265608	99551909	Direct-on-line (DOL)	10	Low	10
KPL.1200.300.10.T.50.13.L	99265614	99551910	Direct-on-line (DOL)	10	Low	10
KPL.1200.300.10.T.50.15.L	99265615	99551911	Direct-on-line (DOL)	10	Low	10
KPL.1200.300.10.T.50.17.L	99265616	99551912	Direct-on-line (DOL)	10	Low	10
KPL.1200.300.10.T.50.19.L	99265617	99551913	Direct-on-line (DOL)	10	Low	10
KPL.1200.350.10.T.50.17.L	99265623	99551914	Direct-on-line (DOL)	10	Low	10
KPL.1200.350.10.T.50.19.L	99265624	99551915	Direct-on-line (DOL)	10	Low	10
KPL.1200.350.10.T.50.21.L	99265625	99551916	Direct-on-line (DOL)	10	Low	10
KPL.1200.400.10.T.50.19.L	99265631	99551917	Direct-on-line (DOL)	10	Low	10
KPL.1200.400.10.T.50.21.L	99265632	99551919	Direct-on-line (DOL)	10	Low	10

Pump type	Product number		Starting method	Cable length [m]	Pressure range	No of poles
	400 [V]	380 [V]				
KPL.1200.160.12.T.50.9.L	99265633	99551920	Direct-on-line (DOL)	10	Low	12
KPL.1200.160.12.T.50.11.L	99265634	99551921	Direct-on-line (DOL)	10	Low	12
KPL.1200.160.12.T.50.13.L	99265635	99551922	Direct-on-line (DOL)	10	Low	12
KPL.1200.160.12.T.50.15.L	99265636	99551923	Direct-on-line (DOL)	10	Low	12
KPL.1200.200.12.T.50.13.L	99265643	99551924	Direct-on-line (DOL)	10	Low	12
KPL.1200.200.12.T.50.15.L	99265644	99551925	Direct-on-line (DOL)	10	Low	12
KPL.1200.200.12.T.50.17.L	99265645	99551926	Direct-on-line (DOL)	10	Low	12
KPL.1200.200.12.T.50.19.L	99265646	99551927	Direct-on-line (DOL)	10	Low	12
KPL.1200.250.12.T.50.17.L	99265653	99551928	Direct-on-line (DOL)	10	Low	12
KPL.1200.250.12.T.50.19.L	99265654	99551929	Direct-on-line (DOL)	10	Low	12
KPL.1200.250.12.T.50.21.L	99265655	99551930	Direct-on-line (DOL)	10	Low	12
KPL.1200.250.12.T.50.23.L	99265656	99551931	Direct-on-line (DOL)	10	Low	12
KPL.1200.300.12.T.50.21.L	99265663	99551932	Direct-on-line (DOL)	10	Low	12
KPL.1200.300.12.T.50.23.L	99265664	99551933	Direct-on-line (DOL)	10	Low	12
KPL.1200.132.12.T.50.9.E	99265857	99551934	Direct-on-line (DOL)	10	Extra low	12
KPL.1200.132.12.T.50.11.E	99265859	99551935	Direct-on-line (DOL)	10	Extra low	12
KPL.1200.132.12.T.50.13.E	99265860	99551936	Direct-on-line (DOL)	10	Extra low	12
KPL.1200.132.12.T.50.15.E	99265861	99332847	Direct-on-line (DOL)	10	Extra low	12
KPL.1200.160.12.T.50.11.E	99265867	99551938	Direct-on-line (DOL)	10	Extra low	12
KPL.1200.160.12.T.50.13.E	99265868	99551939	Direct-on-line (DOL)	10	Extra low	12
KPL.1200.160.12.T.50.15.E	99265869	99551940	Direct-on-line (DOL)	10	Extra low	12

Pump type	Product number		Starting method	Cable length [m]	Pressure range	No of poles
	400 [V]	380 [V]				
KPL.1200.160.12.T.50.17.E	99265870	99332771	Direct-on-line (DOL)	10	Extra low	12
KPL.1200.160.12.T.50.19.E	99265871	99551942	Direct-on-line (DOL)	10	Extra low	12
KPL.1200.160.12.T.50.21.E	99265872	99551943	Direct-on-line (DOL)	10	Extra low	12
KPL.1200.200.12.T.50.15.E	99265887	99551944	Direct-on-line (DOL)	10	Extra low	12
KPL.1200.200.12.T.50.17.E	99265888	99551945	Direct-on-line (DOL)	10	Extra low	12
KPL.1200.200.12.T.50.19.E	99265889	99551946	Direct-on-line (DOL)	10	Extra low	12
KPL.1200.200.12.T.50.21.E	99265890	99551948	Direct-on-line (DOL)	10	Extra low	12
KPL.1200.200.12.T.50.23.E	99265891	99551949	Direct-on-line (DOL)	10	Extra low	12
KPL.1200.220.12.T.50.19.E	99265897	99551950	Direct-on-line (DOL)	10	Extra low	12
KPL.1200.220.12.T.50.21.E	99265898	99551951	Direct-on-line (DOL)	10	Extra low	12
KPL.1200.220.12.T.50.23.E	99265899	99551952	Direct-on-line (DOL)	10	Extra low	12

5.1.9 KPL 1400

Pump type	Product number		Starting method	Cable length [m]	Pressure range	No of poles
	400 [V]	380 [V]				
KPL.1400.250.12.T.50.11.L	99265674	99551955	Direct-on-line (DOL)	10	Low	12
KPL.1400.250.12.T.50.13.L	99265675	99551956	Direct-on-line (DOL)	10	Low	12
KPL.1400.300.12.T.50.13.L	99265683	99551957	Direct-on-line (DOL)	10	Low	12
KPL.1400.300.12.T.50.15.L	99265684	99551958	Direct-on-line (DOL)	10	Low	12
KPL.1400.300.12.T.50.17.L	99265685	99551959	Direct-on-line (DOL)	10	Low	12
KPL.1400.300.12.T.50.19.L	99265686	99551960	Direct-on-line (DOL)	10	Low	12
KPL.1400.350.12.T.50.15.L	99265692	99551961	Direct-on-line (DOL)	10	Low	12
KPL.1400.350.12.T.50.17.L	99265693	99551962	Direct-on-line (DOL)	10	Low	12
KPL.1400.350.12.T.50.19.L	99265694	99551963	Direct-on-line (DOL)	10	Low	12
KPL.1400.350.12.T.50.21.L	99265695	99551964	Direct-on-line (DOL)	10	Low	12
KPL.1400.400.12.T.50.17.L	99265701	99551965	Direct-on-line (DOL)	10	Low	12
KPL.1400.400.12.T.50.19.L	99265702	99551966	Direct-on-line (DOL)	10	Low	12
KPL.1400.400.12.T.50.21.L	99265703	99551967	Direct-on-line (DOL)	10	Low	12
KPL.1400.220.12.T.50.9.L	99551474	99551953	Direct-on-line (DOL)	10	Low	12
KPL.1400.220.12.T.50.11.L	99551475	99551954	Direct-on-line (DOL)	10	Low	12

Pump type	Product number		Starting method	Cable length [m]	Pressure range	No of poles
	400 [V]	380 [V]				
KPL.1400.160.14.T.50.9.L	99265705	99551968	Direct-on-line (DOL)	10	Low	14
KPL.1400.160.14.T.50.11.L	99265706	99551969	Direct-on-line (DOL)	10	Low	14
KPL.1400.160.14.T.50.13.L	99265707	99551970	Direct-on-line (DOL)	10	Low	14
KPL.1400.200.14.T.50.13.L	99265714	99551971	Direct-on-line (DOL)	10	Low	14
KPL.1400.200.14.T.50.15.L	99265715	99551972	Direct-on-line (DOL)	10	Low	14
KPL.1400.200.14.T.50.17.L	99265716	99551973	Direct-on-line (DOL)	10	Low	14
KPL.1400.200.14.T.50.19.L	99265717	99551974	Direct-on-line (DOL)	10	Low	14
KPL.1400.250.14.T.50.17.L	99265723	99551975	Direct-on-line (DOL)	10	Low	14
KPL.1400.250.14.T.50.19.L	99265724	99551976	Direct-on-line (DOL)	10	Low	14
KPL.1400.250.14.T.50.21.L	99265725	99551977	Direct-on-line (DOL)	10	Low	14
KPL.1400.300.14.T.50.21.L	99265732	99551979	Direct-on-line (DOL)	10	Low	14
KPL.1400.132.14.T.50.9.E	99265900	99551981	Direct-on-line (DOL)	10	Extra low	14
KPL.1400.132.14.T.50.11.E	99265901	99551982	Direct-on-line (DOL)	10	Extra low	14
KPL.1400.132.14.T.50.13.E	99265902	99551983	Direct-on-line (DOL)	10	Extra low	14
KPL.1400.160.14.T.50.11.E	99265909	99551984	Direct-on-line (DOL)	10	Extra low	14
KPL.1400.160.14.T.50.13.E	99265910	99551985	Direct-on-line (DOL)	10	Extra low	14
KPL.1400.160.14.T.50.15.E	99265911	99551986	Direct-on-line (DOL)	10	Extra low	14
KPL.1400.160.14.T.50.17.E	99265912	99551987	Direct-on-line (DOL)	10	Extra low	14
KPL.1400.200.14.T.50.15.E	99265919	99551988	Direct-on-line (DOL)	10	Extra low	14
KPL.1400.200.14.T.50.17.E	99265920	99551989	Direct-on-line (DOL)	10	Extra low	14
KPL.1400.200.14.T.50.19.E	99265921	99551990	Direct-on-line (DOL)	10	Extra low	14

Pump type	Product number		Starting method	Cable length [m]	Pressure range	No of poles
	400 [V]	380 [V]				
KPL.1400.200.14.T.50.21.E	99265922	99551991	Direct-on-line (DOL)	10	Extra low	14
KPL.1400.200.14.T.50.23.E	99265923	99551992	Direct-on-line (DOL)	10	Extra low	14
KPL.1400.250.14.T.50.21.E	99265930	99551993	Direct-on-line (DOL)	10	Extra low	14
KPL.1400.250.14.T.50.23.E	99265931	99551994	Direct-on-line (DOL)	10	Extra low	14
KPL.1400.250.14.T.50.23.L	99551476	99551978	Direct-on-line (DOL)	10	Low	14
KPL.1400.300.14.T.50.23.L	99551477	99551980	Direct-on-line (DOL)	10	Low	14

5.1.10 KPL 1500

Pump type	Product number		Starting method	Cable length [m]	Pressure range	No of poles
	400 [V]	380 [V]				
KPL.1500.350.12.T.50.9.L	99551478	99551995	Direct-on-line (DOL)	10	Low	12
KPL.1500.350.12.T.50.11.L	99551479	99551996	Direct-on-line (DOL)	10	Low	12
KPL.1500.350.12.T.50.13.L	99551480	99551997	Direct-on-line (DOL)	10	Low	12
KPL.1500.350.12.T.50.15.L	99551481	99551998	Direct-on-line (DOL)	10	Low	12
KPL.1500.400.12.T.50.9.L	99551482	99551999	Direct-on-line (DOL)	10	Low	12
KPL.1500.400.12.T.50.11.L	99551483	99552000	Direct-on-line (DOL)	10	Low	12
KPL.1500.400.12.T.50.13.L	99551484	99552001	Direct-on-line (DOL)	10	Low	12
KPL.1500.400.12.T.50.15.L	99551485	99552002	Direct-on-line (DOL)	10	Low	12
KPL.1500.400.12.T.50.17.L	99551486	99552003	Direct-on-line (DOL)	10	Low	12
KPL.1500.450.12.T.50.13.L	99551487	99552004	Direct-on-line (DOL)	10	Low	12
KPL.1500.450.12.T.50.15.L	99551488	99552005	Direct-on-line (DOL)	10	Low	12
KPL.1500.450.12.T.50.17.L	99551489	99552006	Direct-on-line (DOL)	10	Low	12
KPL.1500.450.12.T.50.19.L	99551490	99552007	Direct-on-line (DOL)	10	Low	12
KPL.1500.500.12.T.50.15.L	99551491	99552008	Direct-on-line (DOL)	10	Low	12
KPL.1500.500.12.T.50.17.L	99551492	99552009	Direct-on-line (DOL)	10	Low	12
KPL.1500.500.12.T.50.19.L	99551493	99552010	Direct-on-line (DOL)	10	Low	12

Pump type	Product number		Starting method	Cable length [m]	Pressure range	No of poles
	400 [V]	380 [V]				
KPL.1500.220.14.T.50.9.L	99551494	99552011	Direct-on-line (DOL)	10	Low	14
KPL.1500.220.14.T.50.11.L	99551495	99552012	Direct-on-line (DOL)	10	Low	14
KPL.1500.220.14.T.50.13.L	99551496	99552013	Direct-on-line (DOL)	10	Low	14
KPL.1500.250.14.T.50.9.L	99551497	99552014	Direct-on-line (DOL)	10	Low	14
KPL.1500.250.14.T.50.11.L	99551498	99552015	Direct-on-line (DOL)	10	Low	14
KPL.1500.250.14.T.50.13.L	99551499	99552016	Direct-on-line (DOL)	10	Low	14
KPL.1500.250.14.T.50.15.L	99551500	99552017	Direct-on-line (DOL)	10	Low	14
KPL.1500.300.14.T.50.13.L	99551501	99552018	Direct-on-line (DOL)	10	Low	14
KPL.1500.300.14.T.50.15.L	99551502	99552019	Direct-on-line (DOL)	10	Low	14
KPL.1500.300.14.T.50.17.L	99551503	99552020	Direct-on-line (DOL)	10	Low	14
KPL.1500.300.14.T.50.19.L	99551504	99552021	Direct-on-line (DOL)	10	Low	14
KPL.1500.375.14.T.50.17.L	99551505	99552022	Direct-on-line (DOL)	10	Low	14
KPL.1500.375.14.T.50.19.L	99551506	99552023	Direct-on-line (DOL)	10	Low	14
KPL.1500.375.14.T.50.21.L	99551507	99552024	Direct-on-line (DOL)	10	Low	14
KPL.1500.375.14.T.50.23.L	99551508	99552025	Direct-on-line (DOL)	10	Low	14
KPL.1500.450.14.T.50.21.L	99551509	99552026	Direct-on-line (DOL)	10	Low	14
KPL.1500.450.14.T.50.23.L	99551510	99552027	Direct-on-line (DOL)	10	Low	14
KPL.1500.200.14.T.50.9.E	99551511	99552028	Direct-on-line (DOL)	10	Extra low	14
KPL.1500.200.14.T.50.11.E	99551512	99552029	Direct-on-line (DOL)	10	Extra low	14
KPL.1500.200.14.T.50.13.E	99551513	99552030	Direct-on-line (DOL)	10	Extra low	14
KPL.1500.250.14.T.50.11.E	99551514	99552031	Direct-on-line (DOL)	10	Extra low	14
KPL.1500.250.14.T.50.13.E	99551515	99552032	Direct-on-line (DOL)	10	Extra low	14
KPL.1500.250.14.T.50.15.E	99551516	99552034	Direct-on-line (DOL)	10	Extra low	14
KPL.1500.250.14.T.50.17.E	99551517	99552035	Direct-on-line (DOL)	10	Extra low	14
KPL.1500.300.14.T.50.15.E	99551518	99552036	Direct-on-line (DOL)	10	Extra low	14

Pump type	Product number		Starting method	Cable length [m]	Pressure range	No of poles
	400 [V]	380 [V]				
KPL.1500.300.14.T.50.17.E	99551519	99552037	Direct-on-line (DOL)	10	Extra low	14
KPL.1500.300.14.T.50.19.E	99551520	99552038	Direct-on-line (DOL)	10	Extra low	14
KPL.1500.300.14.T.50.21.E	99551521	99552039	Direct-on-line (DOL)	10	Extra low	14
KPL.1500.350.14.T.50.19.E	99551522	99552040	Direct-on-line (DOL)	10	Extra low	14
KPL.1500.350.14.T.50.21.E	99551523	99552041	Direct-on-line (DOL)	10	Extra low	14

5.1.11 KPL 1600

Pump type	Product number		Starting method	Cable length [m]	Pressure range	No of poles
	400 [V]	380 [V]				
KPL.1600.350.14.T.50.9.L	99551524	99552042	Direct-on-line (DOL)	10	Low	14
KPL.1600.350.14.T.50.11.L	99551525	99552043	Direct-on-line (DOL)	10	Low	14
KPL.1600.350.14.T.50.13.L	99551526	99552044	Direct-on-line (DOL)	10	Low	14
KPL.1600.350.14.T.50.15.L	99551527	99552045	Direct-on-line (DOL)	10	Low	14
KPL.1600.400.14.T.50.11.L	99551528	99552046	Direct-on-line (DOL)	10	Low	14
KPL.1600.400.14.T.50.13.L	99551529	99552047	Direct-on-line (DOL)	10	Low	14
KPL.1600.400.14.T.50.15.L	99551530	99552048	Direct-on-line (DOL)	10	Low	14
KPL.1600.400.14.T.50.17.L	99551531	99552049	Direct-on-line (DOL)	10	Low	14
KPL.1600.400.14.T.50.19.L	99551532	99552050	Direct-on-line (DOL)	10	Low	14
KPL.1600.500.14.T.50.15.L	99551533	99552051	Direct-on-line (DOL)	10	Low	14
KPL.1600.500.14.T.50.17.L	99551534	99552052	Direct-on-line (DOL)	10	Low	14
KPL.1600.500.14.T.50.19.L	99551535	99552053	Direct-on-line (DOL)	10	Low	14
KPL.1600.500.14.T.50.21.L	99551536	99552054	Direct-on-line (DOL)	10	Low	14
KPL.1600.550.14.T.50.19.L	99551537	99552055	Direct-on-line (DOL)	10	Low	14
KPL.1600.550.14.T.50.21.L	99551538	99552056	Direct-on-line (DOL)	10	Low	14

Pump type	Product number		Starting method	Cable length [m]	Pressure range	No of poles
	400 [V]	380 [V]				
KPL.1600.250.16.T.50.9.L	99551539	99552057	Direct-on-line (DOL)	10	Low	16
KPL.1600.250.16.T.50.11.L	99551540	99552058	Direct-on-line (DOL)	10	Low	16
KPL.1600.250.16.T.50.13.L	99551541	99552059	Direct-on-line (DOL)	10	Low	16
KPL.1600.300.16.T.50.11.L	99551542	99552060	Direct-on-line (DOL)	10	Low	16
KPL.1600.300.16.T.50.13.L	99551543	99552061	Direct-on-line (DOL)	10	Low	16
KPL.1600.300.16.T.50.15.L	99551544	99552062	Direct-on-line (DOL)	10	Low	16
KPL.1600.300.16.T.50.17.L	99551545	99552063	Direct-on-line (DOL)	10	Low	16
KPL.1600.350.16.T.50.15.L	99551546	99552064	Direct-on-line (DOL)	10	Low	16
KPL.1600.350.16.T.50.17.L	99551547	99552065	Direct-on-line (DOL)	10	Low	16
KPL.1600.350.16.T.50.19.L	99551548	99552066	Direct-on-line (DOL)	10	Low	16
KPL.1600.350.16.T.50.21.L	99551549	99552067	Direct-on-line (DOL)	10	Low	16
KPL.1600.400.16.T.50.17.L	99551550	99552068	Direct-on-line (DOL)	10	Low	16
KPL.1600.400.16.T.50.19.L	99551551	99552069	Direct-on-line (DOL)	10	Low	16
KPL.1600.400.16.T.50.21.L	99551552	99552070	Direct-on-line (DOL)	10	Low	16
KPL.1600.400.16.T.50.23.L	99551553	99552071	Direct-on-line (DOL)	10	Low	16
KPL.1600.450.16.T.50.21.L	99551554	99552072	Direct-on-line (DOL)	10	Low	16
KPL.1600.450.16.T.50.23.L	99551555	99552073	Direct-on-line (DOL)	10	Low	16
KPL.1600.200.16.T.50.9.E	99551556	99552074	Direct-on-line (DOL)	10	Extra low	16
KPL.1600.200.16.T.50.11.E	99551557	99552075	Direct-on-line (DOL)	10	Extra low	16
KPL.1600.200.16.T.50.13.E	99551558	99552076	Direct-on-line (DOL)	10	Extra low	16
KPL.1600.250.16.T.50.13.E	99551559	99552077	Direct-on-line (DOL)	10	Extra low	16
KPL.1600.250.16.T.50.15.E	99551560	99552078	Direct-on-line (DOL)	10	Extra low	16
KPL.1600.250.16.T.50.17.E	99551561	99552079	Direct-on-line (DOL)	10	Extra low	16
KPL.1600.250.16.T.50.19.E	99551562	99552080	Direct-on-line (DOL)	10	Extra low	16
KPL.1600.300.16.T.50.17.E	99551563	99552081	Direct-on-line (DOL)	10	Extra low	16
KPL.1600.300.16.T.50.19.E	99551564	99552082	Direct-on-line (DOL)	10	Extra low	16
KPL.1600.300.16.T.50.21.E	99551565	99552083	Direct-on-line (DOL)	10	Extra low	16

Pump type	Product number		Starting method	Cable length [m]	Pressure range	No of poles
	400 [V]	380 [V]				
KPL.1600.350.16.T.50.19.E	99551566	99552084	Direct-on-line (DOL)	10	Extra low	16
KPL.1600.350.16.T.50.21.E	99551567	99552085	Direct-on-line (DOL)	10	Extra low	16
KPL.1600.350.16.T.50.23.E	99551568	99552086	Direct-on-line (DOL)	10	Extra low	16
KPL.1600.400.16.T.50.21.E	99551569	99552087	Direct-on-line (DOL)	10	Extra low	16
KPL.1600.400.16.T.50.23.E	99551570	99552088	Direct-on-line (DOL)	10	Extra low	16

5.1.12 KPL 1800

Pump type	Product number		Starting method	Cable length [m]	Pressure range	No of poles
	400 [V]	380 [V]				
KPL.1800.450.16.T.50.9.L	99551571	99552089	Direct-on-line (DOL)	10	Low	16
KPL.1800.450.16.T.50.11.L	99551572	99552090	Direct-on-line (DOL)	10	Low	16
KPL.1800.450.16.T.50.13.L	99551573	99552091	Direct-on-line (DOL)	10	Low	16
KPL.1800.500.16.T.50.11.L	99551574	99552092	Direct-on-line (DOL)	10	Low	16
KPL.1800.500.16.T.50.13.L	99551575	99552093	Direct-on-line (DOL)	10	Low	16
KPL.1800.500.16.T.50.15.L	99551576	99552094	Direct-on-line (DOL)	10	Low	16
KPL.1800.500.16.T.50.17.L	99551577	99552095	Direct-on-line (DOL)	10	Low	16
KPL.1800.600.16.T.50.13.L	99551578	99552096	Direct-on-line (DOL)	10	Low	16
KPL.1800.600.16.T.50.15.L	99551579	99552097	Direct-on-line (DOL)	10	Low	16
KPL.1800.600.16.T.50.17.L	99551580	99552098	Direct-on-line (DOL)	10	Low	16
KPL.1800.600.16.T.50.19.L	99551581	99552099	Direct-on-line (DOL)	10	Low	16
KPL.1800.600.16.T.50.21.L	99551582	99552100	Direct-on-line (DOL)	10	Low	16
KPL.1800.700.16.T.50.15.L	99551583	99552101	Direct-on-line (DOL)	10	Low	16
KPL.1800.700.16.T.50.17.L	99551584	99552102	Direct-on-line (DOL)	10	Low	16
KPL.1800.700.16.T.50.19.L	99551585	99552103	Direct-on-line (DOL)	10	Low	16
KPL.1800.700.16.T.50.21.L	99551586	99552104	Direct-on-line (DOL)	10	Low	16

Pump type	Product number		Starting method	Cable length [m]	Pressure range	No of poles
	400 [V]	380 [V]				
KPL.1800.300.18.T.50.9.E	99551587	99552105	Direct-on-line (DOL)	10	Extra low	18
KPL.1800.300.18.T.50.11.E	99551588	99552106	Direct-on-line (DOL)	10	Extra low	18
KPL.1800.300.18.T.50.13.E	99551589	99552107	Direct-on-line (DOL)	10	Extra low	18
KPL.1800.300.18.T.50.15.E	99551590	99552108	Direct-on-line (DOL)	10	Extra low	18
KPL.1800.350.18.T.50.13.E	99551591	99552109	Direct-on-line (DOL)	10	Extra low	18
KPL.1800.350.18.T.50.15.E	99551592	99552110	Direct-on-line (DOL)	10	Extra low	18
KPL.1800.350.18.T.50.17.E	99551593	99552111	Direct-on-line (DOL)	10	Extra low	18
KPL.1800.350.18.T.50.19.E	99551594	99552112	Direct-on-line (DOL)	10	Extra low	18
KPL.1800.400.18.T.50.15.E	99551595	99552113	Direct-on-line (DOL)	10	Extra low	18
KPL.1800.400.18.T.50.17.E	99551596	99552114	Direct-on-line (DOL)	10	Extra low	18
KPL.1800.400.18.T.50.19.E	99551597	99552115	Direct-on-line (DOL)	10	Extra low	18
KPL.1800.400.18.T.50.21.E	99551598	99552116	Direct-on-line (DOL)	10	Extra low	18
KPL.1800.450.18.T.50.19.E	99551599	99552117	Direct-on-line (DOL)	10	Extra low	18
KPL.1800.450.18.T.50.21.E	99551600	99552118	Direct-on-line (DOL)	10	Extra low	18
KPL.1800.450.18.T.50.23.E	99551601	99552119	Direct-on-line (DOL)	10	Extra low	18
KPL.1800.500.18.T.50.21.E	99551602	99552120	Direct-on-line (DOL)	10	Extra low	18
KPL.1800.500.18.T.50.23.E	99551603	99552121	Direct-on-line (DOL)	10	Extra low	18

5.2 KPG pumps

5.2.1 KPG 500 EB (bi-directional)

Pump type	Product number		Starting method	Cable length [m]	Pressure range	No of poles
	400 [V]	380 [V]				
KPG.500.11.4.T.50.9.EB	99872303	99872396	Star-delta (Y/D)	10	Extra low, bi-directional	4
KPG.500.15.4.T.50.9.EB	92544000	92544036	Star-delta (Y/D)	10	Extra low, bi-directional	4
KPG.500.15.4.T.50.11.EB	99872305	99872398	Star-delta (Y/D)	10	Extra low, bi-directional	4
KPG.500.15.4.T.50.13.EB	99872306	99872399	Star-delta (Y/D)	10	Extra low, bi-directional	4
KPG.500.15.4.T.50.15.EB	99872307	99872400	Star-delta (Y/D)	10	Extra low, bi-directional	4
KPG.500.15.4.T.50.17.EB	99872308	99872401	Star-delta (Y/D)	10	Extra low, bi-directional	4
KPG.500.19.4.T.50.9.EB	92544001	92544037	Star-delta (Y/D)	10	Extra low, bi-directional	4
KPG.500.19.4.T.50.11.EB	92544002	92544038	Star-delta (Y/D)	10	Extra low, bi-directional	4
KPG.500.19.4.T.50.13.EB	92544003	92544039	Star-delta (Y/D)	10	Extra low, bi-directional	4
KPG.500.19.4.T.50.15.EB	92544004	92544040	Star-delta (Y/D)	10	Extra low, bi-directional	4
KPG.500.19.4.T.50.17.EB	99872310	99872403	Star-delta (Y/D)	10	Extra low, bi-directional	4
KPG.500.22.4.T.50.9.EB	92544005	92544041	Star-delta (Y/D)	10	Extra low, bi-directional	4
KPG.500.22.4.T.50.11.EB	92544006	92544042	Star-delta (Y/D)	10	Extra low, bi-directional	4
KPG.500.22.4.T.50.13.EB	92544007	92544043	Star-delta (Y/D)	10	Extra low, bi-directional	4
KPG.500.22.4.T.50.15.EB	92544008	92544044	Star-delta (Y/D)	10	Extra low, bi-directional	4
KPG.500.22.4.T.50.17.EB	92544009	92544045	Star-delta (Y/D)	10	Extra low, bi-directional	4

5.2.2 KPG 600 EB (bi-directional)

Pump type	Product number		Starting method	Cable length [m]	Pressure range	No of poles
	400 [V]	380 [V]				
KPG.600.19.6.T.50.9.EB	99872316	99872409	Star-delta (Y/D)	10	Extra low, bi-directional	6
KPG.600.19.6.T.50.11.EB	99872317	99872410	Star-delta (Y/D)	10	Extra low, bi-directional	6
KPG.600.19.6.T.50.13.EB	99872318	99872411	Star-delta (Y/D)	10	Extra low, bi-directional	6
KPG.600.22.6.T.50.9.EB	92544010	92544046	Star-delta (Y/D)	10	Extra low, bi-directional	6
KPG.600.22.6.T.50.11.EB	92544011	92544047	Star-delta (Y/D)	10	Extra low, bi-directional	6
KPG.600.22.6.T.50.13.EB	99872320	99872413	Star-delta (Y/D)	10	Extra low, bi-directional	6
KPG.600.22.6.T.50.15.EB	99872321	99872414	Star-delta (Y/D)	10	Extra low, bi-directional	6
KPG.600.22.6.T.50.17.EB	99872322	99872415	Star-delta (Y/D)	10	Extra low, bi-directional	6

5.2.3 KPG 700 EB (bi-directional)

Pump type	Product number		Starting method	Cable length [m]	Pressure range	No of poles
	400 [V]	380 [V]				
KPG.700.22.8.T.50.9.EB	99872325	99872418	Star-delta (Y/D)	10	Extra low, bi-directional	8
KPG.700.30.8.T.50.9.EB	92544012	92544048	Star-delta (Y/D)	10	Extra low, bi-directional	8
KPG.700.30.8.T.50.11.EB	92544013	92544049	Star-delta (Y/D)	10	Extra low, bi-directional	8
KPG.700.30.8.T.50.13.EB	99872328	99872421	Star-delta (Y/D)	10	Extra low, bi-directional	8
KPG.700.30.8.T.50.15.EB	99872329	99872422	Star-delta (Y/D)	10	Extra low, bi-directional	8
KPG.700.37.8.T.50.11.EB	92544014	92544050	Star-delta (Y/D)	10	Extra low, bi-directional	8
KPG.700.37.8.T.50.13.EB	92544015	92544051	Star-delta (Y/D)	10	Extra low, bi-directional	8
KPG.700.37.8.T.50.15.EB	92544016	92544052	Star-delta (Y/D)	10	Extra low, bi-directional	8
KPG.700.37.8.T.50.17.EB	92544017	92544053	Star-delta (Y/D)	10	Extra low, bi-directional	8

5.2.4 KPG 800 EB (bi-directional)

Pump type	Product number		Starting method	Cable length [m]	Pressure range	No of poles
	400 [V]	380 [V]				
KPG.800.37.8.T.50.9.EB	99872335	99872428	Star-delta (Y/D)	10	Extra low, bi-directional	8
KPG.800.45.8.T.50.9.EB	99872337	99872430	Star-delta (Y/D)	10	Extra low, bi-directional	8
KPG.800.45.8.T.50.11.EB	99872338	99872431	Star-delta (Y/D)	10	Extra low, bi-directional	8
KPG.800.55.8.T.50.9.EB	92544018	92544054	Star-delta (Y/D)	10	Extra low, bi-directional	8
KPG.800.55.8.T.50.11.EB	92544019	92544055	Star-delta (Y/D)	10	Extra low, bi-directional	8
KPG.800.55.8.T.50.13.EB	99872341	99872434	Star-delta (Y/D)	10	Extra low, bi-directional	8
KPG.800.55.8.T.50.15.EB	99872342	99872435	Star-delta (Y/D)	10	Extra low, bi-directional	8
KPG.800.75.8.T.50.11.EB	92544020	92544056	Star-delta (Y/D)	10	Extra low, bi-directional	8
KPG.800.75.8.T.50.13.EB	92544021	92544057	Star-delta (Y/D)	10	Extra low, bi-directional	8
KPG.800.75.8.T.50.15.EB	92544022	92544058	Star-delta (Y/D)	10	Extra low, bi-directional	8
KPG.800.75.8.T.50.17.EB	99872345	99872438	Star-delta (Y/D)	10	Extra low, bi-directional	8

5.2.5 KPG 900 EB (bi-directional)

Pump type	Product number		Starting method	Cable length [m]	Pressure range	No of poles
	400 [V]	380 [V]				
KPG.900.75.8.T.50.9.EB	99872349	99872442	Star-delta (Y/D)	10	Extra low, bi-directional	8
KPG.900.75.8.T.50.11.EB	99872350	99872443	Star-delta (Y/D)	10	Extra low, bi-directional	8
KPG.900.90.8.T.50.9.EB	92544023	92544059	Direct-on-line (DOL)	10	Extra low, bi-directional	8
KPG.900.90.8.T.50.11.EB	99872351	99872444	Direct-on-line (DOL)	10	Extra low, bi-directional	8
KPG.900.90.8.T.50.13.EB	99872352	99872445	Direct-on-line (DOL)	10	Extra low, bi-directional	8
KPG.900.110.8.T.50.13.EB	92544024	92544060	Direct-on-line (DOL)	10	Extra low, bi-directional	8
KPG.900.110.8.T.50.15.EB	99872354	99872447	Direct-on-line (DOL)	10	Extra low, bi-directional	8
KPG.900.110.8.T.50.17.EB	99872355	99872448	Direct-on-line (DOL)	10	Extra low, bi-directional	8

5.2.6 KPG 1000 EB (bi-directional)

Pump type	Product number		Starting method	Cable length [m]	Pressure range	No of poles
	400 [V]	380 [V]				
KPG.1000.75.10.T.50.9.EB	99872357	99872450	Direct-on-line (DOL)	10	Extra low, bi-directional	10
KPG.1000.75.10.T.50.11.EB	99872358	99872451	Direct-on-line (DOL)	10	Extra low, bi-directional	10
KPG.1000.90.10.T.50.9.EB	92544025	92544061	Direct-on-line (DOL)	10	Extra low, bi-directional	10
KPG.1000.90.10.T.50.11.EB	92544026	92544062	Direct-on-line (DOL)	10	Extra low, bi-directional	10
KPG.1000.90.10.T.50.13.EB	99872360	99872453	Direct-on-line (DOL)	10	Extra low, bi-directional	10
KPG.1000.132.10.T.50.13.EB	92544027	92544063	Direct-on-line (DOL)	10	Extra low, bi-directional	10
KPG.1000.132.10.T.50.15.EB	92544028	92544064	Direct-on-line (DOL)	10	Extra low, bi-directional	10
KPG.1000.132.10.T.50.17.EB	99872363	99872456	Direct-on-line (DOL)	10	Extra low, bi-directional	10

5.2.7 KPG 1200 EB (bi-directional)

Pump type	Product number		Starting method	Cable length [m]	Pressure range	No of poles
	400 [V]	380 [V]				
KPG.1200.132.12.T.50.9.EB	99872366	99872459	Direct-on-line (DOL)	10	Extra low, bi-directional	12
KPG.1200.132.12.T.50.11.EB	99872367	99872460	Direct-on-line (DOL)	10	Extra low, bi-directional	12
KPG.1200.132.12.T.50.13.EB	99872368	99872461	Direct-on-line (DOL)	10	Extra low, bi-directional	12
KPG.1200.160.12.T.50.11.EB	92544029	92544065	Direct-on-line (DOL)	10	Extra low, bi-directional	12
KPG.1200.160.12.T.50.13.EB	99872370	99872463	Direct-on-line (DOL)	10	Extra low, bi-directional	12
KPG.1200.160.12.T.50.15.EB	99872371	99872464	Direct-on-line (DOL)	10	Extra low, bi-directional	12
KPG.1200.200.12.T.50.13.EB	92544030	92544066	Direct-on-line (DOL)	10	Extra low, bi-directional	12
KPG.1200.200.12.T.50.15.EB	92544031	92544067	Direct-on-line (DOL)	10	Extra low, bi-directional	12
KPG.1200.200.12.T.50.17.EB	99872384	99872467	Direct-on-line (DOL)	10	Extra low, bi-directional	12

5.2.8 KPG 1400 EB (bi-directional)

Pump type	Product number		Starting method	Cable length [m]	Pressure range	No of poles
	400 [V]	380 [V]				
KPG.1400.132.14.T.50.9.EB	99872387	99872470	Direct-on-line (DOL)	10	Extra low, bi-directional	14
KPG.1400.132.14.T.50.11.EB	99872388	99872471	Direct-on-line (DOL)	10	Extra low, bi-directional	14
KPG.1400.132.14.T.50.13.EB	99872389	99872472	Direct-on-line (DOL)	10	Extra low, bi-directional	14
KPG.1400.160.14.T.50.9.EB	92544032	92544068	Direct-on-line (DOL)	10	Extra low, bi-directional	14
KPG.1400.160.14.T.50.11.EB	92544033	92544069	Direct-on-line (DOL)	10	Extra low, bi-directional	14
KPG.1400.160.14.T.50.13.EB	99872390	99872473	Direct-on-line (DOL)	10	Extra low, bi-directional	14
KPG.1400.160.14.T.50.15.EB	99872391	99872474	Direct-on-line (DOL)	10	Extra low, bi-directional	14
KPG.1400.160.14.T.50.17.EB	99872392	99872475	Direct-on-line (DOL)	10	Extra low, bi-directional	14
KPG.1400.200.14.T.50.13.EB	92544034	92544070	Direct-on-line (DOL)	10	Extra low, bi-directional	14
KPG.1400.200.14.T.50.15.EB	92544035	92544072	Direct-on-line (DOL)	10	Extra low, bi-directional	14
KPG.1400.200.14.T.50.17.EB	99872393	99872476	Direct-on-line (DOL)	10	Extra low, bi-directional	14

5.2.9 KPG 500 (one-directional)

Pump type	Product number		Starting method	Cable length [m]	Pressure range	No of poles
	400 [V]	380 [V]				
KPG.500.11.4.T.50.11.L	99551621	99552217	Star-delta (Y/D)	10	Low	4
KPG.500.11.4.T.50.9.L	99551620	99552216	Star-delta (Y/D)	10	Low	4
KPG.500.15.4.T.50.11.L	99551623	99552219	Star-delta (Y/D)	10	Low	4
KPG.500.15.4.T.50.13.L	99551624	99552220	Star-delta (Y/D)	10	Low	4
KPG.500.15.4.T.50.15.L	99551625	99552221	Star-delta (Y/D)	10	Low	4
KPG.500.15.4.T.50.17.L	99551626	99552222	Star-delta (Y/D)	10	Low	4
KPG.500.15.4.T.50.9.L	99551622	99552218	Star-delta (Y/D)	10	Low	4
KPG.500.19.4.T.50.15.L	99551627	99552223	Star-delta (Y/D)	10	Low	4
KPG.500.19.4.T.50.17.L	99551628	99552224	Star-delta (Y/D)	10	Low	4

Pump type	Product number		Starting method	Cable length [m]	Pressure range	No of poles
	400 [V]	380 [V]				
KPG.500.19.4.T.50.19.L	99551629	99552225	Star-delta (Y/D)	10	Low	4
KPG.500.19.4.T.50.21.L	99551630	99552226	Star-delta (Y/D)	10	Low	4
KPG.500.22.4.T.50.19.L	99551631	99552227	Star-delta (Y/D)	10	Low	4
KPG.500.22.4.T.50.21.L	99551633	99552228	Star-delta (Y/D)	10	Low	4

5.2.10 KPG 600 (one-directional)

Pump type	Product number		Starting method	Cable length [m]	Pressure range	No of poles
	400 [V]	380 [V]				
KPG.600.19.6.T.50.9.E	99551634	99551642	Star-delta (Y/D)	10	Extra low	6
KPG.600.19.6.T.50.11.E	99551635	99552229	Star-delta (Y/D)	10	Extra low	6
KPG.600.19.6.T.50.13.E	99551636	99552230	Star-delta (Y/D)	10	Extra low	6
KPG.600.19.6.T.50.15.E	99551637	99552231	Star-delta (Y/D)	10	Extra low	6
KPG.600.19.6.T.50.17.E	99551638	99552232	Star-delta (Y/D)	10	Extra low	6
KPG.600.22.6.T.50.15.E	99551639	99552233	Star-delta (Y/D)	10	Extra low	6
KPG.600.22.6.T.50.17.E	99551640	99552234	Star-delta (Y/D)	10	Extra low	6
KPG.600.22.6.T.50.19.E	99551641	99552235	Star-delta (Y/D)	10	Extra low	6
KPG.600.22.6.T.50.21.E	99551642	99552236	Star-delta (Y/D)	10	Extra low	6

5.2.11 KPG 700 (one-directional)

Pump type	Product number		Starting method	Cable length [m]	Pressure range	No of poles
	400 [V]	380 [V]				
KPG.700.22.8.T.50.9.E	99551643	99552238	Star-delta (Y/D)	10	Extra low	8
KPG.700.22.8.T.50.11.E	99551644	99552239	Star-delta (Y/D)	10	Extra low	8
KPG.700.22.8.T.50.13.E	99551645	99552240	Star-delta (Y/D)	10	Extra low	8
KPG.700.22.8.T.50.15.E	99551646	99552241	Star-delta (Y/D)	10	Extra low	8
KPG.700.22.8.T.50.17.E	99551647	99552242	Star-delta (Y/D)	10	Extra low	8
KPG.700.30.8.T.50.13.E	99551648	99552243	Star-delta (Y/D)	10	Extra low	8
KPG.700.30.8.T.50.15.E	99551649	99552244	Star-delta (Y/D)	10	Extra low	8
KPG.700.30.8.T.50.17.E	99551650	99552245	Star-delta (Y/D)	10	Extra low	8
KPG.700.30.8.T.50.19.E	99551651	99552246	Star-delta (Y/D)	10	Extra low	8
KPG.700.30.8.T.50.21.E	99551652	99552247	Star-delta (Y/D)	10	Extra low	8
KPG.700.37.8.T.50.21.E	99551653	99552248	Star-delta (Y/D)	10	Extra low	8
KPG.700.37.8.T.50.23.E	99551654	99552249	Star-delta (Y/D)	10	Extra low	8

5.2.12 KPG 800 (one-directional)

Pump type	Product number		Starting method	Cable length [m]	Pressure range	No of poles
	400 [V]	380 [V]				
KPG.800.37.8.T.50.9.E	99551655	99552250	Star-delta (Y/D)	10	Extra low	8
KPG.800.37.8.T.50.11.E	99551656	99552251	Star-delta (Y/D)	10	Extra low	8
KPG.800.37.8.T.50.13.E	99551657	99552252	Star-delta (Y/D)	10	Extra low	8
KPG.800.45.8.T.50.11.E	99551658	99552253	Star-delta (Y/D)	10	Extra low	8
KPG.800.45.8.T.50.13.E	99551659	99552254	Star-delta (Y/D)	10	Extra low	8
KPG.800.45.8.T.50.15.E	99551660	99552255	Star-delta (Y/D)	10	Extra low	8
KPG.800.45.8.T.50.17.E	99551661	99552256	Star-delta (Y/D)	10	Extra low	8
KPG.800.55.8.T.50.15.E	99551662	99552257	Star-delta (Y/D)	10	Extra low	8
KPG.800.55.8.T.50.17.E	99551663	99552258	Star-delta (Y/D)	10	Extra low	8
KPG.800.55.8.T.50.19.E	99551664	99552259	Star-delta (Y/D)	10	Extra low	8
KPG.800.55.8.T.50.21.E	99551665	99552260	Star-delta (Y/D)	10	Extra low	8
KPG.800.75.8.T.50.19.E	99551666	99552261	Star-delta (Y/D)	10	Extra low	8
KPG.800.75.8.T.50.21.E	99551667	99552262	Star-delta (Y/D)	10	Extra low	8
KPG.800.75.8.T.50.23.E	99551668	99552263	Star-delta (Y/D)	10	Extra low	8

5.2.13 KPG 900 (one-directional)

Pump type	Product number		Starting method	Cable length [m]	Pressure range	No of poles
	400 [V]	380 [V]				
KPG.900.110.8.T.50.15.E	99551678	99552273	Direct-on-line (DOL)	10	Extra low	8
KPG.900.110.8.T.50.17.E	99551679	99552274	Direct-on-line (DOL)	10	Extra low	8
KPG.900.110.8.T.50.19.E	99551680	99552275	Direct-on-line (DOL)	10	Extra low	8
KPG.900.55.8.T.50.9.E	99551669	99552264	Star-delta (Y/D)	10	Extra low	8
KPG.900.75.8.T.50.11.E	99551671	99552266	Star-delta (Y/D)	10	Extra low	8
KPG.900.75.8.T.50.13.E	99551672	99552267	Star-delta (Y/D)	10	Extra low	8
KPG.900.75.8.T.50.15.E	99551673	99552268	Star-delta (Y/D)	10	Extra low	8
KPG.900.75.8.T.50.9.E	99551670	99552265	Star-delta (Y/D)	10	Extra low	8
KPG.900.90.8.T.50.11.E	99551674	99552269	Direct-on-line (DOL)	10	Extra low	8
KPG.900.90.8.T.50.13.E	99551675	99552270	Direct-on-line (DOL)	10	Extra low	8
KPG.900.90.8.T.50.15.E	99551676	99552271	Direct-on-line (DOL)	10	Extra low	8
KPG.900.90.8.T.50.17.E	99551677	99552272	Direct-on-line (DOL)	10	Extra low	8

5.2.14 KPG 1000 (one-directional)

Pump type	Product number		Starting method	Cable length [m]	Pressure range	No of poles
	400 [V]	380 [V]				
KPG.1000.75.10.T.50.9.E	99551681	99552276	Direct-on-line (DOL)	10	Extra low	10
KPG.1000.75.10.T.50.11.E	99551682	99552277	Direct-on-line (DOL)	10	Extra low	10
KPG.1000.75.10.T.50.13.E	99551683	99552278	Direct-on-line (DOL)	10	Extra low	10
KPG.1000.90.10.T.50.11.E	99551684	99552279	Direct-on-line (DOL)	10	Extra low	10
KPG.1000.90.10.T.50.13.E	99551685	99552280	Direct-on-line (DOL)	10	Extra low	10
KPG.1000.90.10.T.50.15.E	99551686	99552281	Direct-on-line (DOL)	10	Extra low	10
KPG.1000.90.10.T.50.17.E	99551687	99552282	Direct-on-line (DOL)	10	Extra low	10
KPG.1000.90.10.T.50.19.E	99551688	99552283	Direct-on-line (DOL)	10	Extra low	10
KPG.1000.132.10.T.50.15.E	99551689	99552284	Direct-on-line (DOL)	10	Extra low	10
KPG.1000.132.10.T.50.17.E	99551690	99552285	Direct-on-line (DOL)	10	Extra low	10
KPG.1000.132.10.T.50.19.E	99551691	99552286	Direct-on-line (DOL)	10	Extra low	10
KPG.1000.132.10.T.50.21.E	99551692	99552287	Direct-on-line (DOL)	10	Extra low	10
KPG.1000.132.10.T.50.23.E	99551693	99552288	Direct-on-line (DOL)	10	Extra low	10

5.2.15 KPG 1200 (one-directional)

Pump type	Product number		Starting method	Cable length [m]	Pressure range	No of poles
	400 [V]	380 [V]				
KPG.1200.132.12.T.50.9.E	99551694	99552289	Direct-on-line (DOL)	10	Extra low	12
KPG.1200.132.12.T.50.11.E	99551695	99552290	Direct-on-line (DOL)	10	Extra low	12
KPG.1200.132.12.T.50.13.E	99551696	99552291	Direct-on-line (DOL)	10	Extra low	12
KPG.1200.132.12.T.50.15.E	99551697	99552292	Direct-on-line (DOL)	10	Extra low	12
KPG.1200.160.12.T.50.11.E	99551698	99552293	Direct-on-line (DOL)	10	Extra low	12
KPG.1200.160.12.T.50.13.E	99551699	99552294	Direct-on-line (DOL)	10	Extra low	12
KPG.1200.160.12.T.50.15.E	99551700	99552295	Direct-on-line (DOL)	10	Extra low	12
KPG.1200.160.12.T.50.17.E	99551701	99552296	Direct-on-line (DOL)	10	Extra low	12
KPG.1200.160.12.T.50.19.E	99551702	99552297	Direct-on-line (DOL)	10	Extra low	12
KPG.1200.160.12.T.50.21.E	99551703	99552298	Direct-on-line (DOL)	10	Extra low	12
KPG.1200.200.12.T.50.15.E	99551704	99552299	Direct-on-line (DOL)	10	Extra low	12
KPG.1200.200.12.T.50.17.E	99551705	99552300	Direct-on-line (DOL)	10	Extra low	12
KPG.1200.200.12.T.50.19.E	99551706	99552301	Direct-on-line (DOL)	10	Extra low	12
KPG.1200.200.12.T.50.21.E	99551707	99552302	Direct-on-line (DOL)	10	Extra low	12
KPG.1200.200.12.T.50.23.E	99551708	99552303	Direct-on-line (DOL)	10	Extra low	12
KPG.1200.220.12.T.50.19.E	99551709	99552304	Direct-on-line (DOL)	10	Extra low	12
KPG.1200.220.12.T.50.21.E	99551710	99552305	Direct-on-line (DOL)	10	Extra low	12
KPG.1200.220.12.T.50.23.E	99551711	99552306	Direct-on-line (DOL)	10	Extra low	12

5.2.16 KPG 1400 (one-directional)

Pump type	Product number		Starting method	Cable length [m]	Pressure range	No of poles
	400 [V]	380 [V]				
KPG.1400.132.14.T.50.9.E	99551712	99552307	Direct-on-line (DOL)	10	Extra low	14
KPG.1400.132.14.T.50.11.E	99551713	99552308	Direct-on-line (DOL)	10	Extra low	14
KPG.1400.132.14.T.50.13.E	99551714	99552309	Direct-on-line (DOL)	10	Extra low	14
KPG.1400.160.14.T.50.11.E	99551715	99552310	Direct-on-line (DOL)	10	Extra low	14
KPG.1400.160.14.T.50.13.E	99551716	99552311	Direct-on-line (DOL)	10	Extra low	14
KPG.1400.160.14.T.50.15.E	99551717	99552312	Direct-on-line (DOL)	10	Extra low	14
KPG.1400.160.14.T.50.17.E	99551718	99552313	Direct-on-line (DOL)	10	Extra low	14
KPG.1400.200.14.T.50.15.E	99551719	99552314	Direct-on-line (DOL)	10	Extra low	14
KPG.1400.200.14.T.50.17.E	99551720	99552315	Direct-on-line (DOL)	10	Extra low	14
KPG.1400.200.14.T.50.19.E	99551721	99552316	Direct-on-line (DOL)	10	Extra low	14
KPG.1400.200.14.T.50.21.E	99551722	99552317	Direct-on-line (DOL)	10	Extra low	14
KPG.1400.200.14.T.50.23.E	99551723	99552318	Direct-on-line (DOL)	10	Extra low	14
KPG.1400.250.14.T.50.21.E	99551724	99552319	Direct-on-line (DOL)	10	Extra low	14
KPG.1400.250.14.T.50.23.E	99551725	99552320	Direct-on-line (DOL)	10	Extra low	14

5.3 KWM pumps

5.3.1 KWM 600

Pump type	Product number		Starting method	Cable length [m]	Pressure range	No of poles
	400 [V]	380 [V]				
KWM.600.37.4.T.50.310	99265849	99552125	Star-delta (Y/D)	10	High	4
KWM.600.45.4.T.50.315	99301513	99552122	Star-delta (Y/D)	10	Medium	4
KWM.600.45.4.T.50.320	99265855	99552126	Star-delta (Y/D)	10	High	4
KWM.600.45.6.T.50.320	99389200	-	Star-delta (Y/D)	10	High	4
KWM.600.55.4.T.50.325	99301517	99552123	Star-delta (Y/D)	10	Medium	4
KWM.600.55.4.T.50.330	99301463	99552127	Star-delta (Y/D)	10	High	4
KWM.600.55.4.T.50.340	99301464	99552128	Star-delta (Y/D)	10	High	4
KWM.600.65.4.T.50.335	99301521	99552124	Star-delta (Y/D)	10	Medium	4
KWM.600.65.4.T.50.340	99301469	99552129	Star-delta (Y/D)	10	High	4
KWM.600.65.4.T.50.350	99301470	99552130	Star-delta (Y/D)	10	High	4

5.3.2 KWM 700

Pump type	Product number		Starting method	Cable length [m]	Pressure range	No of poles
	400 [V]	380 [V]				
KWM.700.110.4.T.50.390	99301479	99552140	Direct-on-line (DOL)	10	High	4
KWM.700.45.6.T.50.410	99301522	99552131	Star-delta (Y/D)	10	Medium	6
KWM.700.55.6.T.50.410	99301527	99552132	Star-delta (Y/D)	10	Medium	6
KWM.700.55.6.T.50.422	99301528	99552133	Star-delta (Y/D)	10	Medium	6
KWM.700.75.4.T.50.360	99301471	99552138	Star-delta (Y/D)	10	High	4
KWM.700.75.6.T.50.435	99301534	99552134	Star-delta (Y/D)	10	Medium	6
KWM.700.75.6.T.50.445	99301535	99552135	Star-delta (Y/D)	10	Medium	6
KWM.700.90.4.T.50.375	99301475	99552139	Direct-on-line (DOL)	10	High	4
KWM.700.90.6.T.50.445	99301540	99552136	Direct-on-line (DOL)	10	Medium	6
KWM.700.90.6.T.50.455	99301541	99552137	Direct-on-line (DOL)	10	Medium	6

5.3.3 KWM 800

Pump type	Product number		Starting method	Cable length [m]	Pressure range	No of poles
	400 [V]	380 [V]				
KWM.800.110.6.T.50.465	99301542	99552142	Direct-on-line (DOL)	10	Medium	6
KWM.800.110.6.T.50.475	99301543	99552143	Direct-on-line (DOL)	10	Medium	6
KWM.800.110.6.T.50.480	99301483	99552151	Direct-on-line (DOL)	10	High	6
KWM.800.110.6.T.50.490	99301544	99552144	Direct-on-line (DOL)	10	Medium	6
KWM.800.110.6.T.50.510	99301484	99552152	Direct-on-line (DOL)	10	High	6
KWM.800.132.6.T.50.490	99301549	99552145	Direct-on-line (DOL)	10	Medium	6
KWM.800.132.6.T.50.500	99301550	99552146	Direct-on-line (DOL)	10	Medium	6
KWM.800.132.6.T.50.510	99301487	99552153	Direct-on-line (DOL)	10	High	6
KWM.800.132.6.T.50.510	99301551	99552147	Direct-on-line (DOL)	10	Medium	6
KWM.800.160.6.T.50.500	99301555	99552148	Direct-on-line (DOL)	10	Medium	6
KWM.800.160.6.T.50.510	99301556	99552149	Direct-on-line (DOL)	10	Medium	6
KWM.800.160.6.T.50.540	99301491	99552154	Direct-on-line (DOL)	10	High	6
KWM.800.90.6.T.50.465	99352638	99552141	Direct-on-line (DOL)	10	Medium	6
KWM.800.90.6.T.50.480	99301480	99552150	Direct-on-line (DOL)	10	High	6

5.3.4 KWM 900

Pump type	Product number		Starting method	Cable length [m]	Pressure range	No of poles
	400 [V]	380 [V]				
KWM.900.132.6.T.50.470	99301492	99552163	Direct-on-line (DOL)	10	High	6
KWM.900.132.6.T.50.500	99301557	99552155	Direct-on-line (DOL)	10	Medium	6
KWM.900.160.6.T.50.485	99551604	99552164	Direct-on-line (DOL)	10	High	6
KWM.900.160.6.T.50.520	99301564	99552156	Direct-on-line (DOL)	10	Medium	6
KWM.900.200.6.T.50.500	99551605	99552165	Direct-on-line (DOL)	10	High	6
KWM.900.200.6.T.50.525	99301572	99552157	Direct-on-line (DOL)	10	Medium	6
KWM.900.200.6.T.50.540	99301573	99552158	Direct-on-line (DOL)	10	Medium	6
KWM.900.220.6.T.50.513	99551606	99552166	Direct-on-line (DOL)	10	High	6
KWM.900.220.6.T.50.540	99301579	99552159	Direct-on-line (DOL)	10	Medium	6
KWM.900.220.6.T.50.550	99301580	99552160	Direct-on-line (DOL)	10	Medium	6
KWM.900.250.6.T.50.550	99301586	99552161	Direct-on-line (DOL)	10	Medium	6
KWM.900.250.6.T.50.560	99301587	99552162	Direct-on-line (DOL)	10	Medium	6

5.3.5 KWM 1000

Pump type	Product number		Starting method	Cable length [m]	Pressure range	No of poles
	400 [V]	380 [V]				
KWM.1000.200.8.T.50.650	99301588	99552167	Direct-on-line (DOL)	10	Medium	8
KWM.1000.220.6.T.50.580	99301496	99552172	Direct-on-line (DOL)	10	High	6
KWM.1000.220.8.T.50.660	99301594	99552168	Direct-on-line (DOL)	10	Medium	8
KWM.1000.250.6.T.50.600	99301502	99552173	Direct-on-line (DOL)	10	High	6
KWM.1000.250.8.T.50.670	99301600	99552169	Direct-on-line (DOL)	10	Medium	8
KWM.1000.300.6.T.50.615	99301507	99552174	Direct-on-line (DOL)	10	High	6
KWM.1000.300.8.T.50.680	99301606	99552170	Direct-on-line (DOL)	10	Medium	8
KWM.1000.300.8.T.50.690	99301607	99552171	Direct-on-line (DOL)	10	Medium	8
KWM.1000.350.6.T.50.630	99301512	99552175	Direct-on-line (DOL)	10	High	6

5.3.6 KWM 1200

Pump type	Product number		Starting method	Cable length [m]	Pressure range	No of poles
	400 [V]	380 [V]				
KWM.1200.200.10.T.50.740	99301633	99552185	Direct-on-line (DOL)	10	Medium	10
KWM.1200.220.10.T.50.740	99301637	99552186	Direct-on-line (DOL)	10	Medium	10
KWM.1200.220.10.T.50.760	99301638	99552187	Direct-on-line (DOL)	10	Medium	10
KWM.1200.250.10.T.50.760	99301642	99552188	Direct-on-line (DOL)	10	Medium	10
KWM.1200.300.10.T.50.780	99301647	99552189	Direct-on-line (DOL)	10	Medium	10
KWM.1200.350.10.T.50.780	99301651	99552190	Direct-on-line (DOL)	10	Medium	10
KWM.1200.350.10.T.50.800	99301652	99552191	Direct-on-line (DOL)	10	Medium	10
KWM.1200.350.8.T.50.740	99301608	99552176	Direct-on-line (DOL)	10	Medium	8
KWM.1200.400.8.T.50.740	99301613	99552177	Direct-on-line (DOL)	10	Medium	8
KWM.1200.400.8.T.50.750	99301614	99552178	Direct-on-line (DOL)	10	Medium	8
KWM.1200.450.8.T.50.750	99301619	99552179	Direct-on-line (DOL)	10	Medium	8
KWM.1200.450.8.T.50.760	99301620	99552180	Direct-on-line (DOL)	10	Medium	8
KWM.1200.500.8.T.50.760	99301625	99552181	Direct-on-line (DOL)	10	Medium	8
KWM.1200.500.8.T.50.770	99301626	99552182	Direct-on-line (DOL)	10	Medium	8
KWM.1200.550.8.T.50.770	99301631	99552183	Direct-on-line (DOL)	10	Medium	8
KWM.1200.550.8.T.50.780	99301632	99552184	Direct-on-line (DOL)	10	Medium	8

5.3.7 KWM 1400

Pump type	Product number		Starting method	Cable length [m]	Pressure range	No of poles
	400 [V]	380 [V]				
KWM.1400.300.12.T.50.880	99301671	99552204	Direct-on-line (DOL)	10	Medium	12
KWM.1400.350.12.T.50.895	99301675	99552205	Direct-on-line (DOL)	10	Medium	12
KWM.1400.400.12.T.50.910	99301679	99552206	Direct-on-line (DOL)	10	Medium	12
KWM.1400.450.10.T.50.865	99301653	99552192	Direct-on-line (DOL)	10	Medium	10
KWM.1400.450.10.T.50.880	99301654	99552193	Direct-on-line (DOL)	10	Medium	10
KWM.1400.500.10.T.50.865	99551607	99552194	Direct-on-line (DOL)	10	Medium	10
KWM.1400.500.10.T.50.880	99551608	99552195	Direct-on-line (DOL)	10	Medium	10
KWM.1400.500.10.T.50.888	99551609	99552196	Direct-on-line (DOL)	10	Medium	10
KWM.1400.550.10.T.50.888	99551610	99552197	Direct-on-line (DOL)	10	Medium	10
KWM.1400.550.10.T.50.895	99301662	99552198	Direct-on-line (DOL)	10	Medium	10
KWM.1400.600.10.T.50.895	99301665	99552199	Direct-on-line (DOL)	10	Medium	10
KWM.1400.600.10.T.50.902	99301666	99552200	Direct-on-line (DOL)	10	Medium	10
KWM.1400.650.10.T.50.902	99301669	99552202	Direct-on-line (DOL)	10	Medium	10
KWM.1400.650.10.T.50.910	99301670	99552203	Direct-on-line (DOL)	10	Medium	10

5.3.8 KWM 1600

Pump type	Product number		Starting method	Cable length [m]	Pressure range	No of poles
	400 [V]	380 [V]				
KWM.1600.500.14.T.50.1085	99551611	99552207	Direct-on-line (DOL)	10	Medium	14
KWM.1600.550.14.T.50.1100	99551612	99552208	Direct-on-line (DOL)	10	Medium	14
KWM.1600.550.14.T.50.1118	99551613	99552209	Direct-on-line (DOL)	10	Medium	14
KWM.1600.600.14.T.50.1118	99551614	99552210	Direct-on-line (DOL)	10	Medium	14
KWM.1600.600.14.T.50.1125	99551615	99552211	Direct-on-line (DOL)	10	Medium	14
KWM.1600.650.14.T.50.1125	99551616	99552212	Direct-on-line (DOL)	10	Medium	14
KWM.1600.650.14.T.50.1135	99551617	99552213	Direct-on-line (DOL)	10	Medium	14
KWM.1600.700.14.T.50.1135	99551618	99552214	Direct-on-line (DOL)	10	Medium	14
KWM.1600.700.14.T.50.1145	99551619	99552215	Direct-on-line (DOL)	10	Medium	14

5.4 Variants

For designs not included in the table, contact Grundfos.

Motor

Various cable lengths according to customer specifications	
EMC power cables according to customer specifications	Screened power cables for variable-speed drives
SM 113 built into terminal box of sensor versions	
Sensor options	Additional Pt100 sensors in windings
	Water-in-oil (WIO) sensor
	Vibration sensor (PVS 3)
Special motor	Insulation class H
	Temperature class B
	Special medium voltage / high voltage
	Reinforced insulation for frequency converter operation (motors above 500 V)
Special oil	Non-toxic Shell Ondina
Special options for VSD use	Insulated ceramic upper bearing

Materials

Impeller/propeller	AISI 304 and 316 and Duplex stainless steel
Wear ring	AISI 304 and 316 and Duplex stainless steel
Lifting bracket	AISI 316 stainless steel

Coating

Paint	300 µm average layer thickness
	450 µm average layer thickness
Special coating 1341 (Belzona)	Impeller
	Outlet casing
	Inlet casing
For seawater applications: Jotun painting + Loctite SI 5368 sealant	380 µm minimum layer thickness

Tests

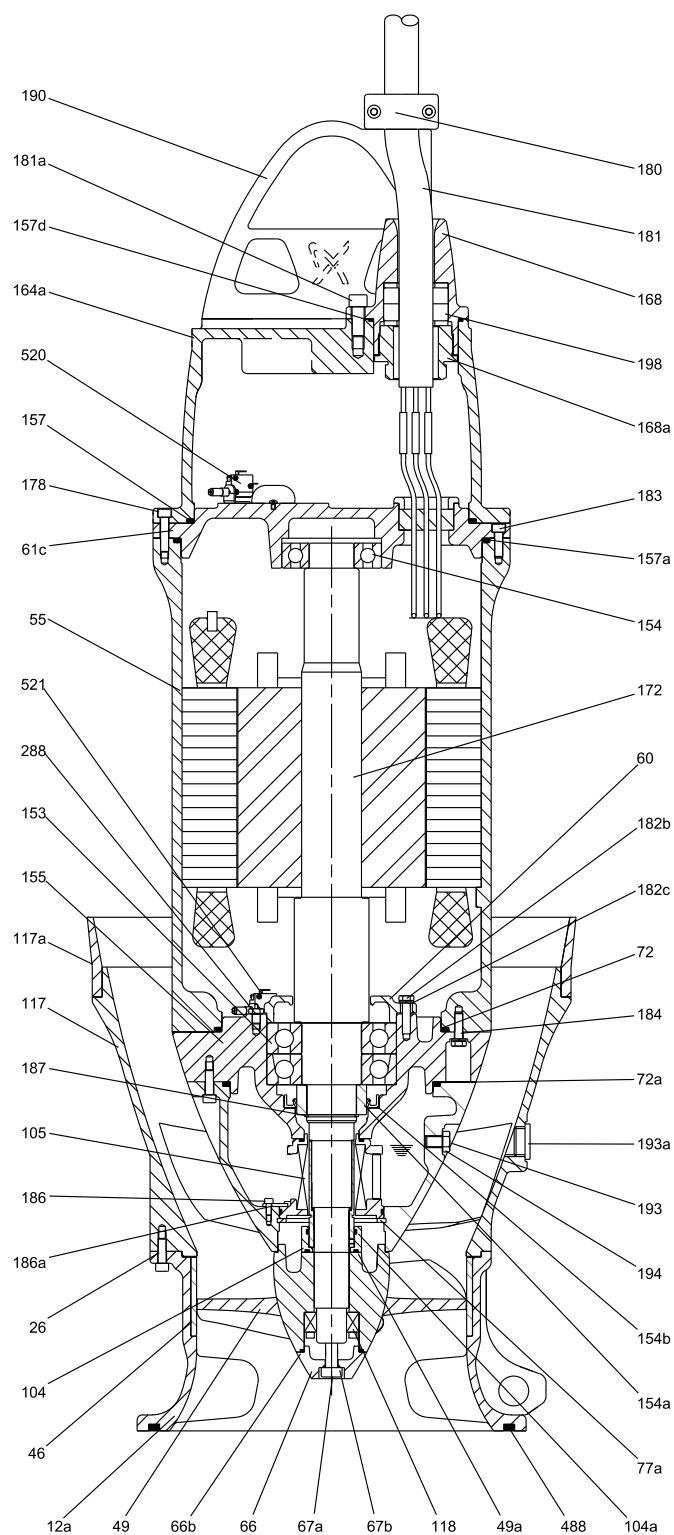
Duty-point-specific propeller/impeller	Contact Grundfos
Test at specified duty on standard propeller (KPL)	Contact Grundfos
Trimmed impeller for specified duty test	Contact Grundfos
Additional test of entire QH curve (including report)*	5-10 points on the pump performance curve (Q/H)
Duty-point verification report according to ISO 9906:2012	Grade 1 tolerances
Vibration test (including report)	Contact Grundfos
Witness test	Contact Grundfos

* Besides the selected duty point, the other test points are not guaranteed to be within ISO 9906:2012 2B tolerances

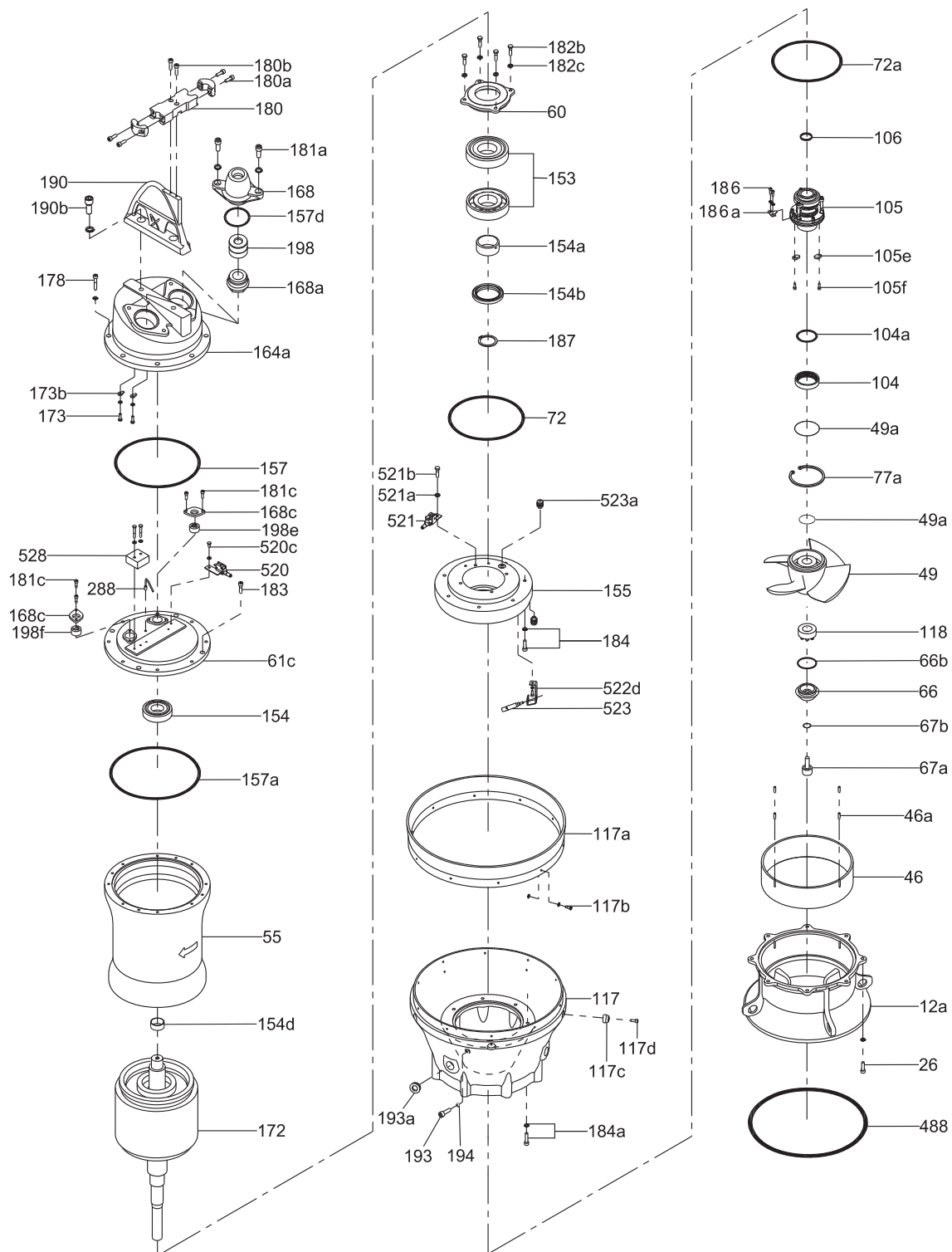
Miscellaneous

Special packaging	Contact Grundfos
Special nameplate	Contact Grundfos
Other variants	Contact Grundfos

6.1 KPL sectional and exploded views

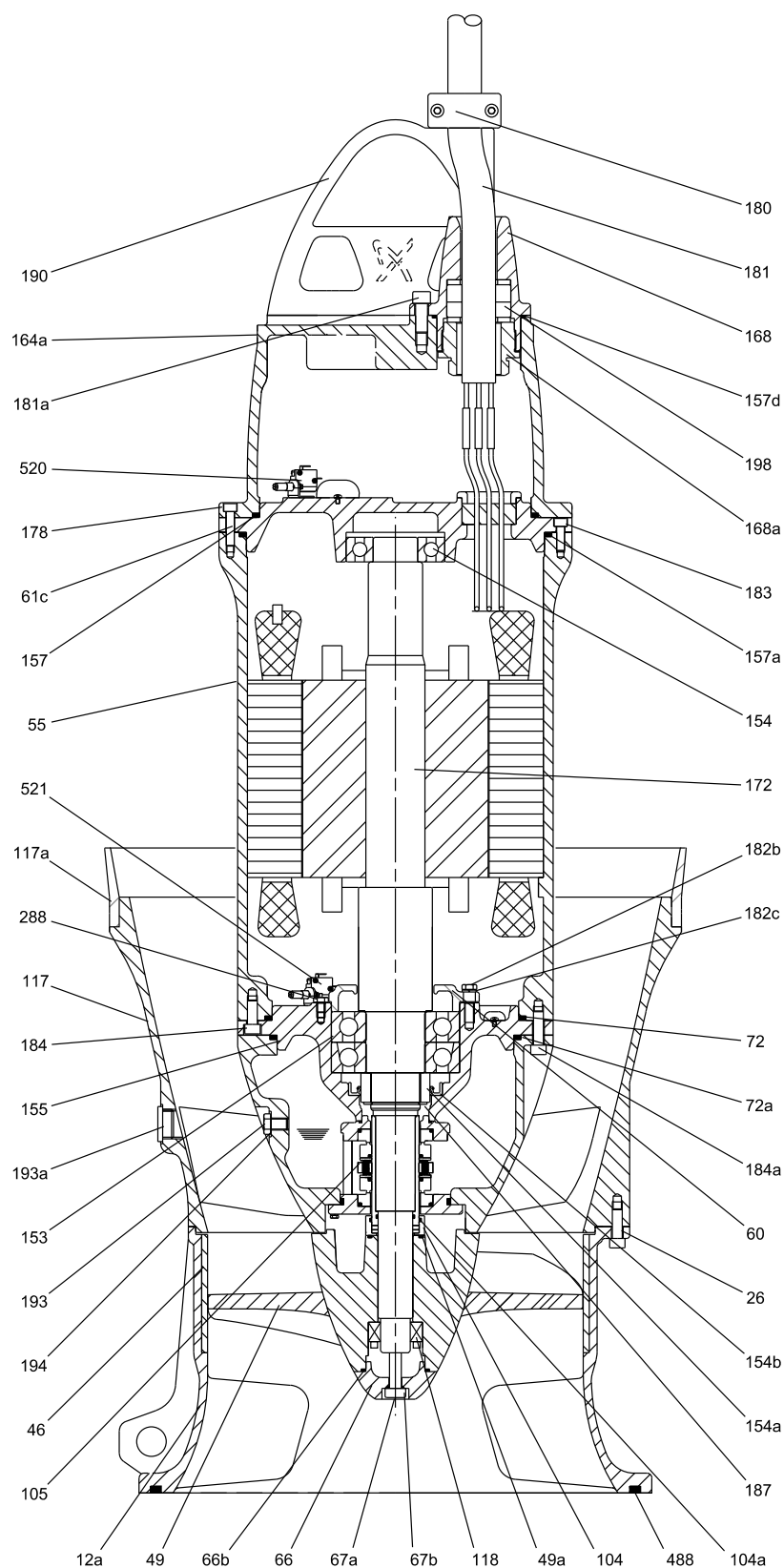


KPL.500 sectional view



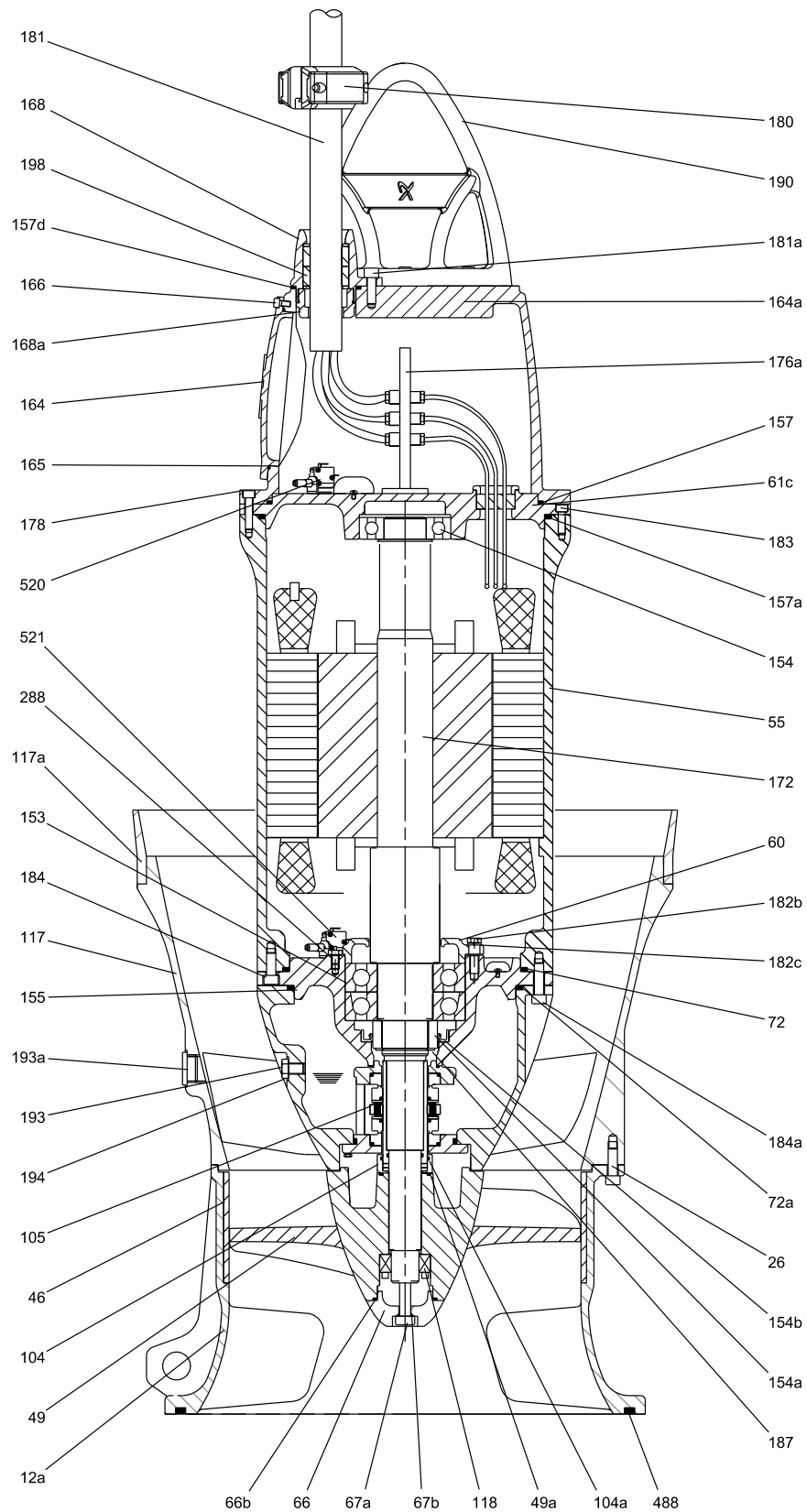
TM060241

KPL 500 exploded view



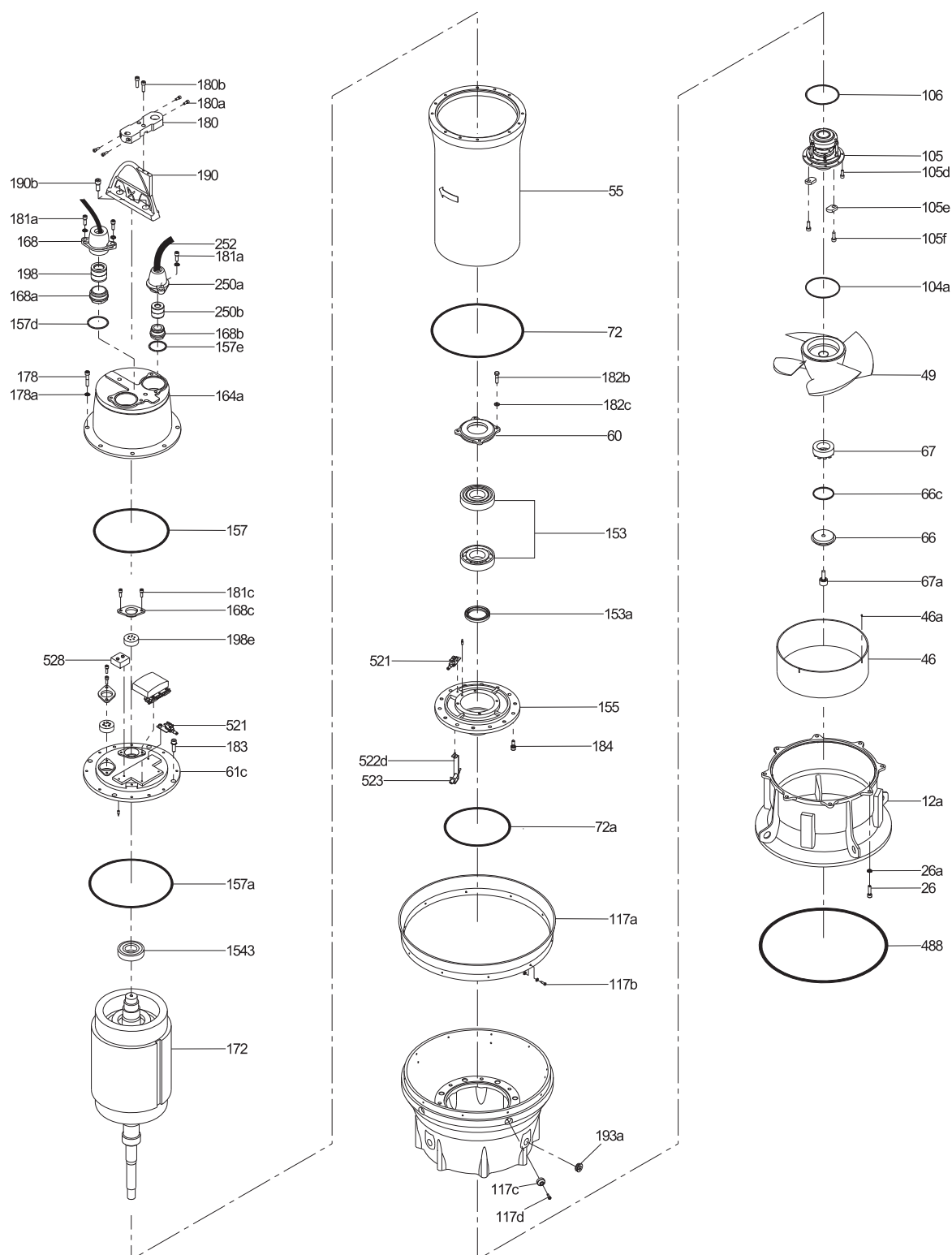
KPL 600 sectional view

TM062922

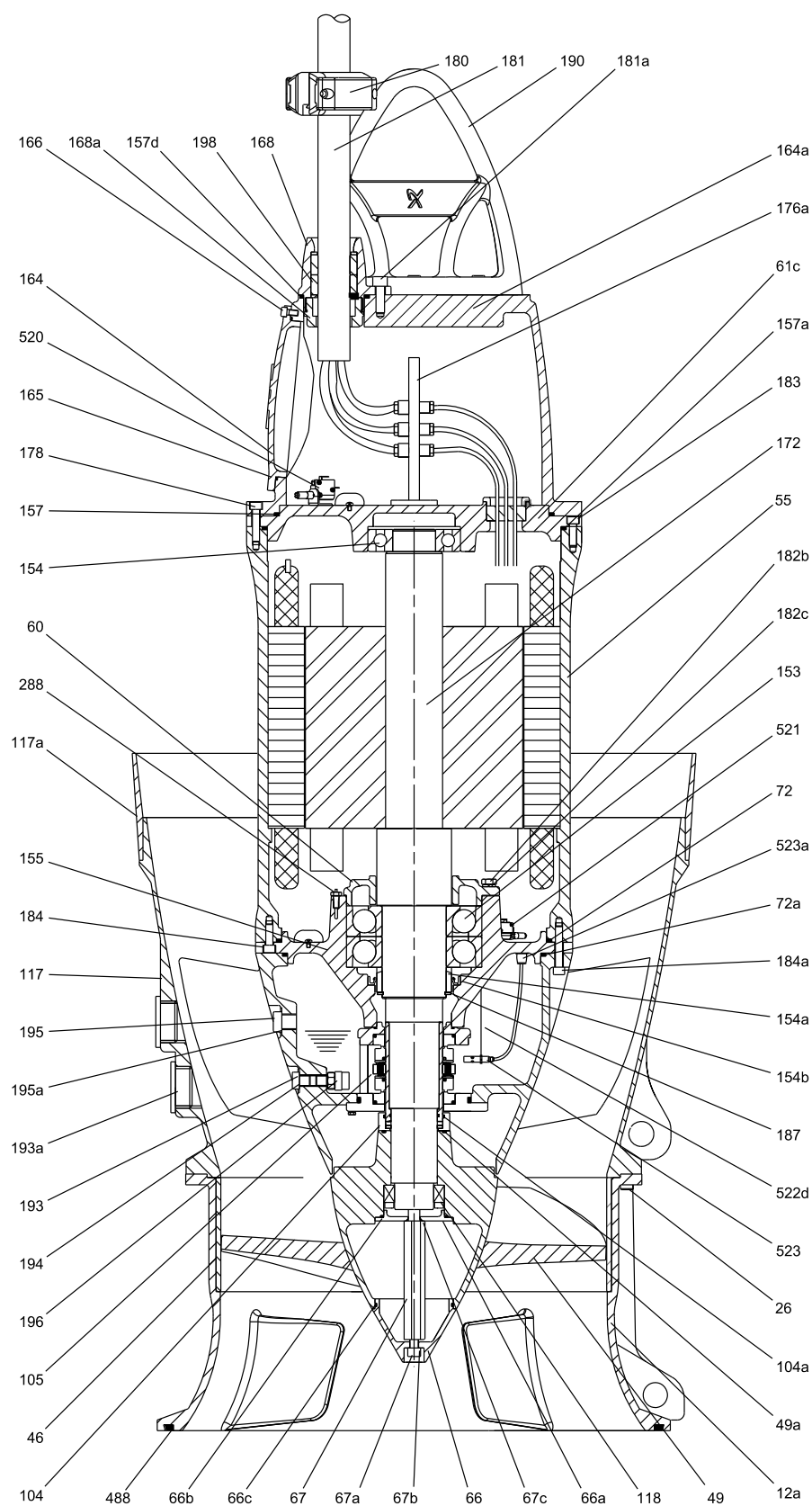


TM062923

KPL.650 sectional view

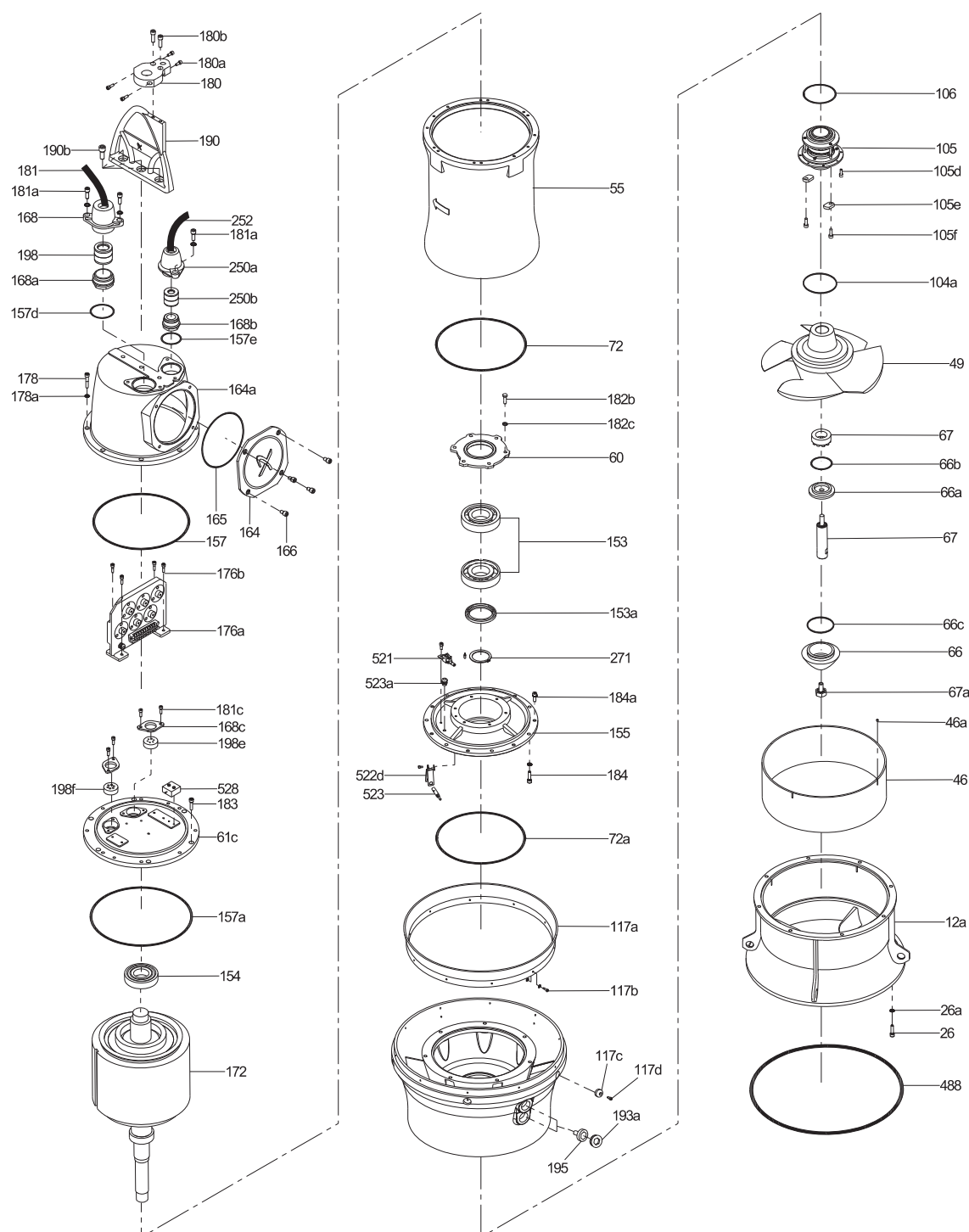


32



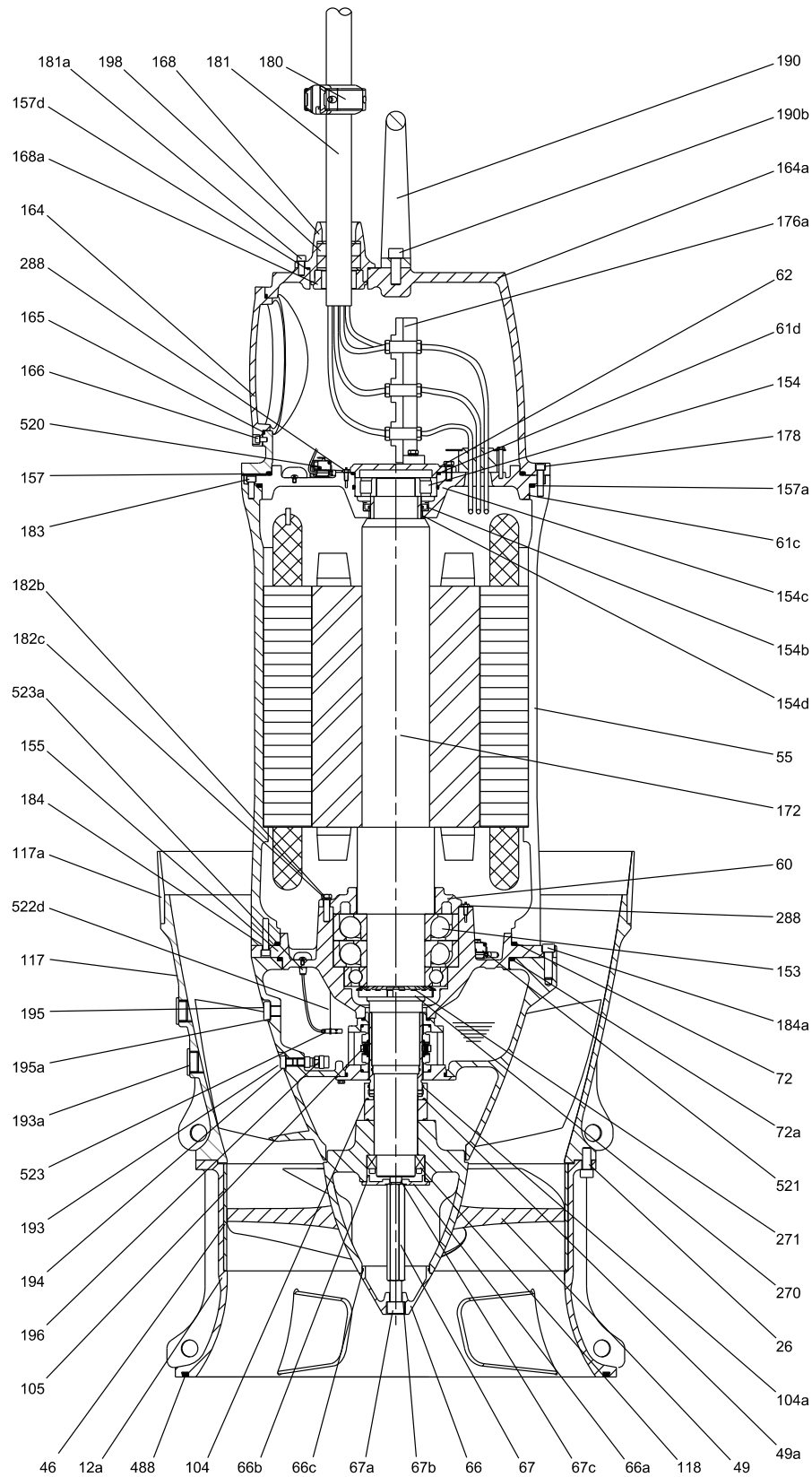
KPL.700 - 800 sectional view

TM062924



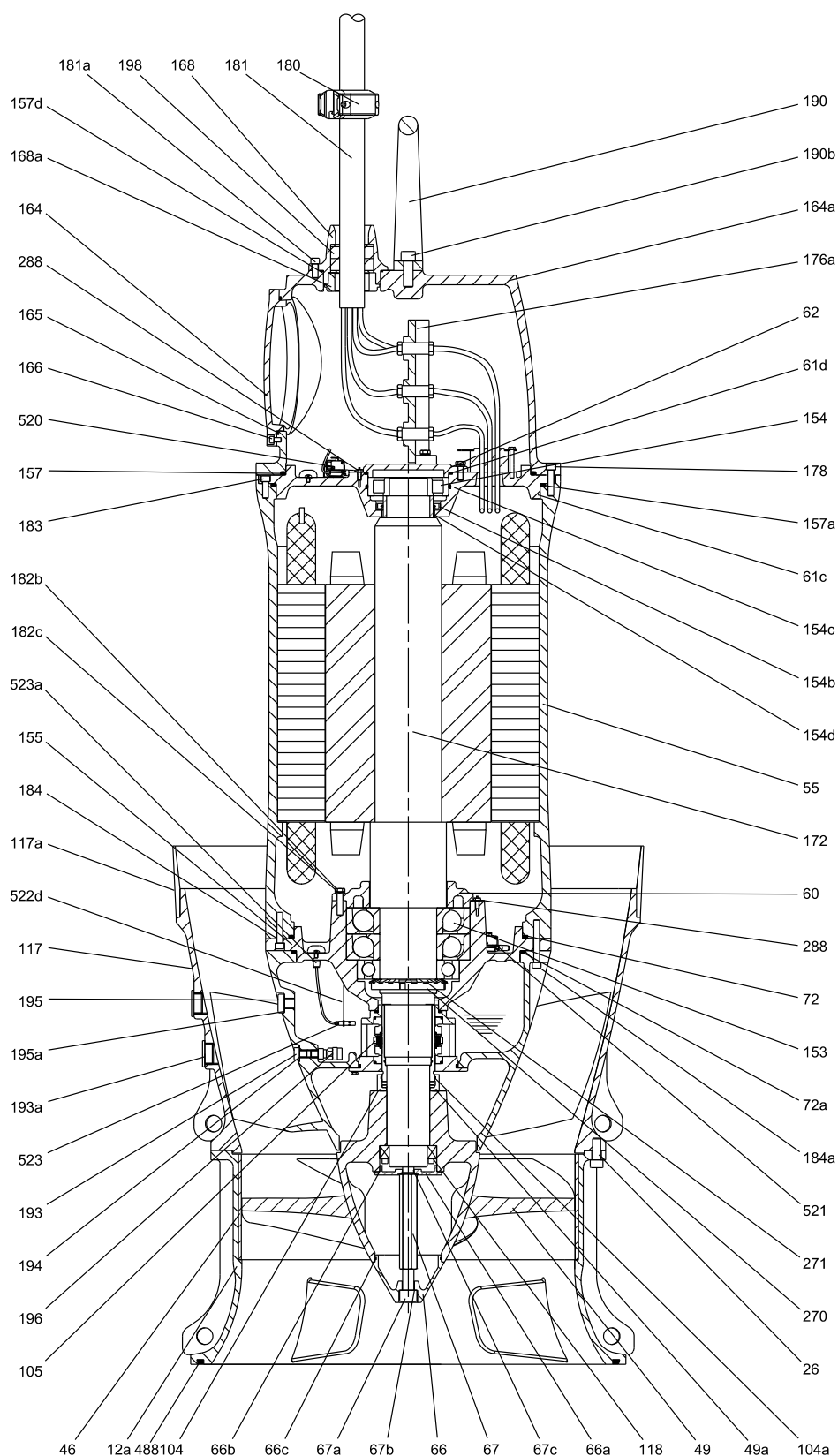
KPL.700 - 800 exploded view

TM063994



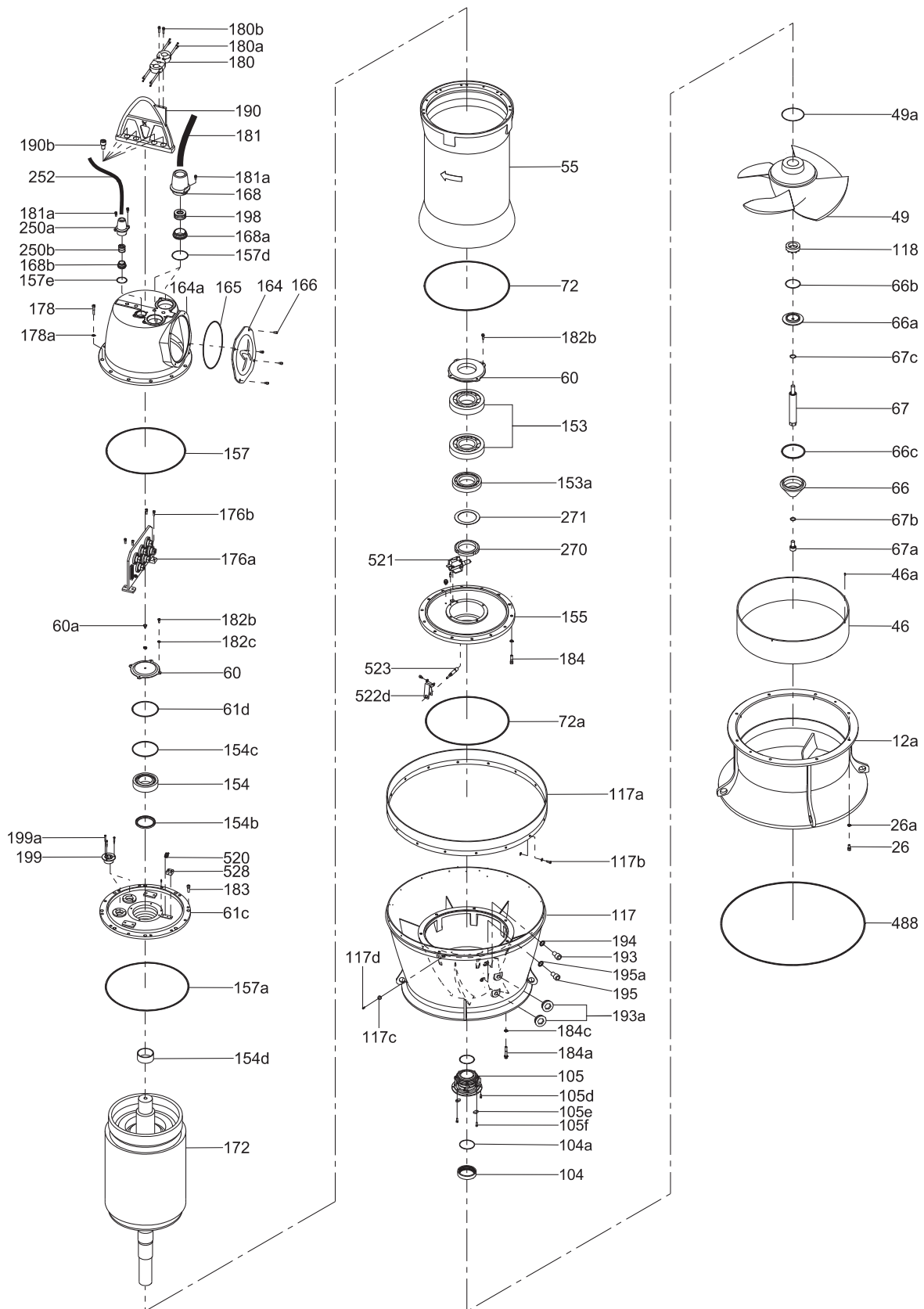
TM062925

KPL.900 sectional view



TM062926

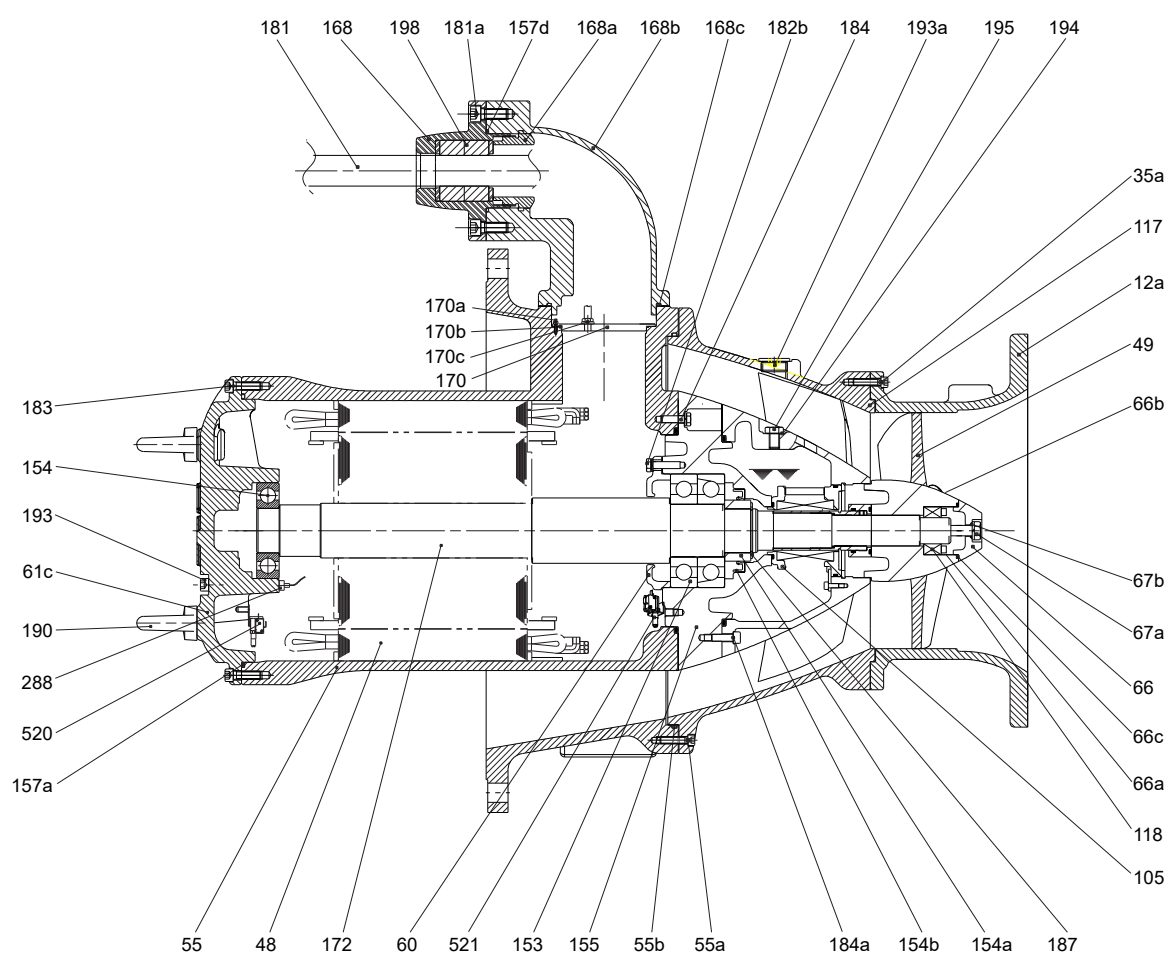
KPL.1000 - 1800 sectional view



TM061885

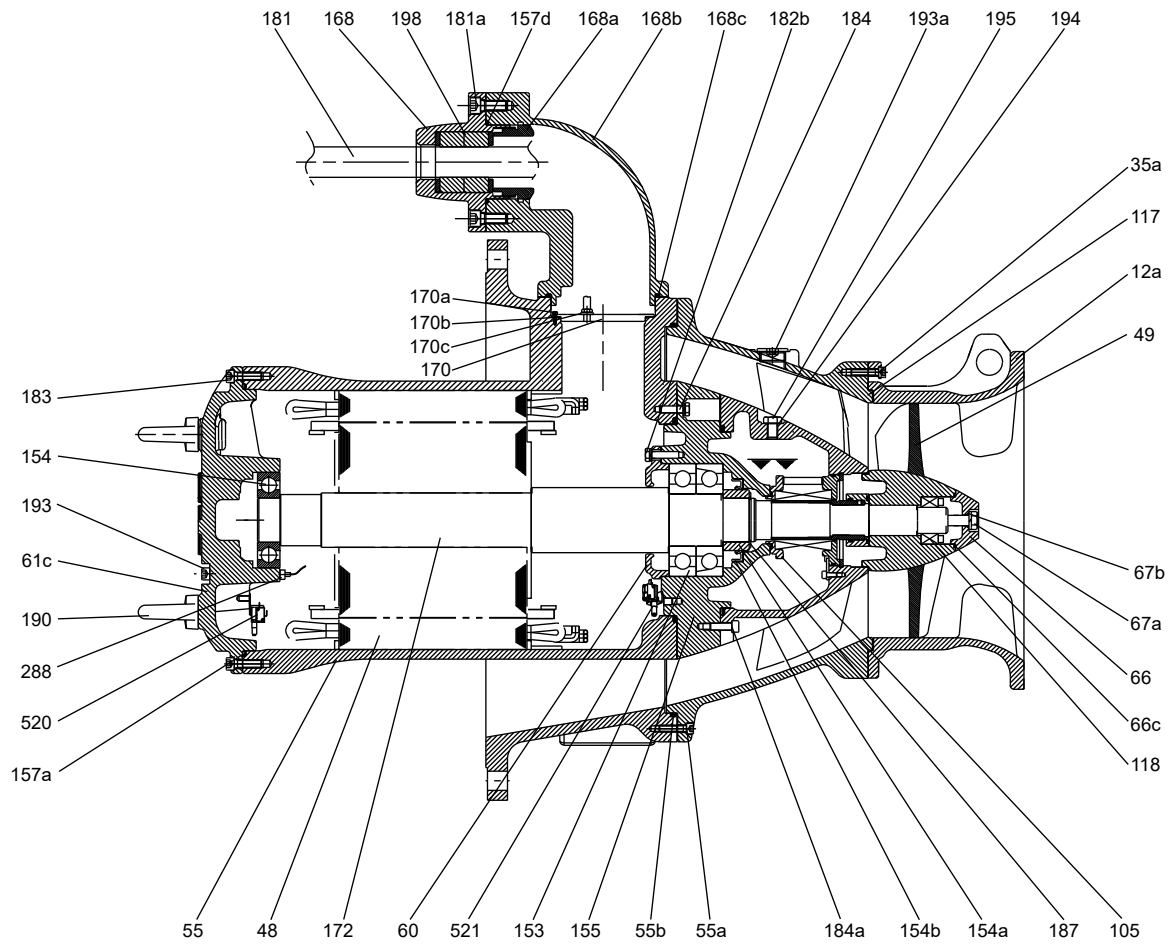
KPL 900 - 1800 exploded view

6.2 KPG sectional and exploded views



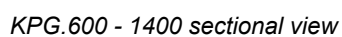
TM073696

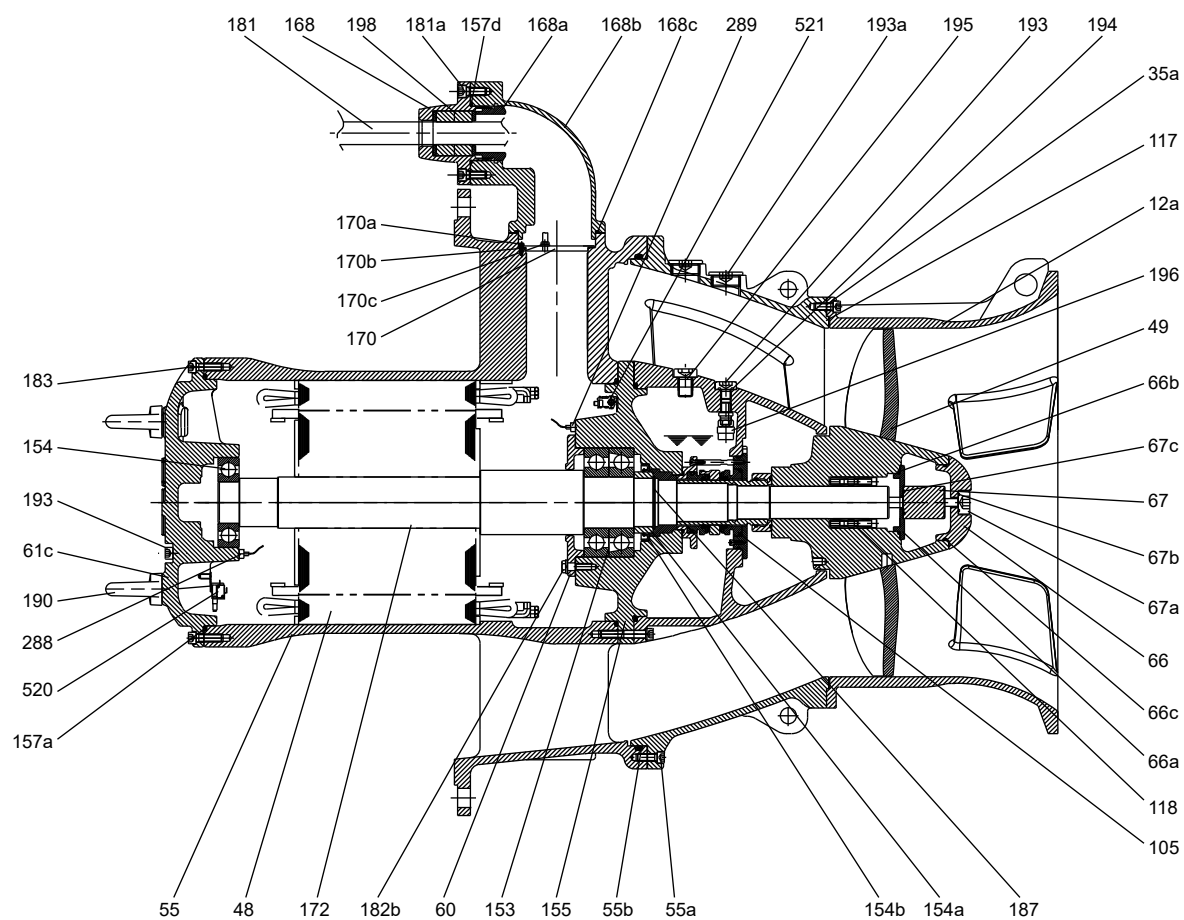
KPG.500 sectional view



TM075029

KPG.EB.500 sectional view

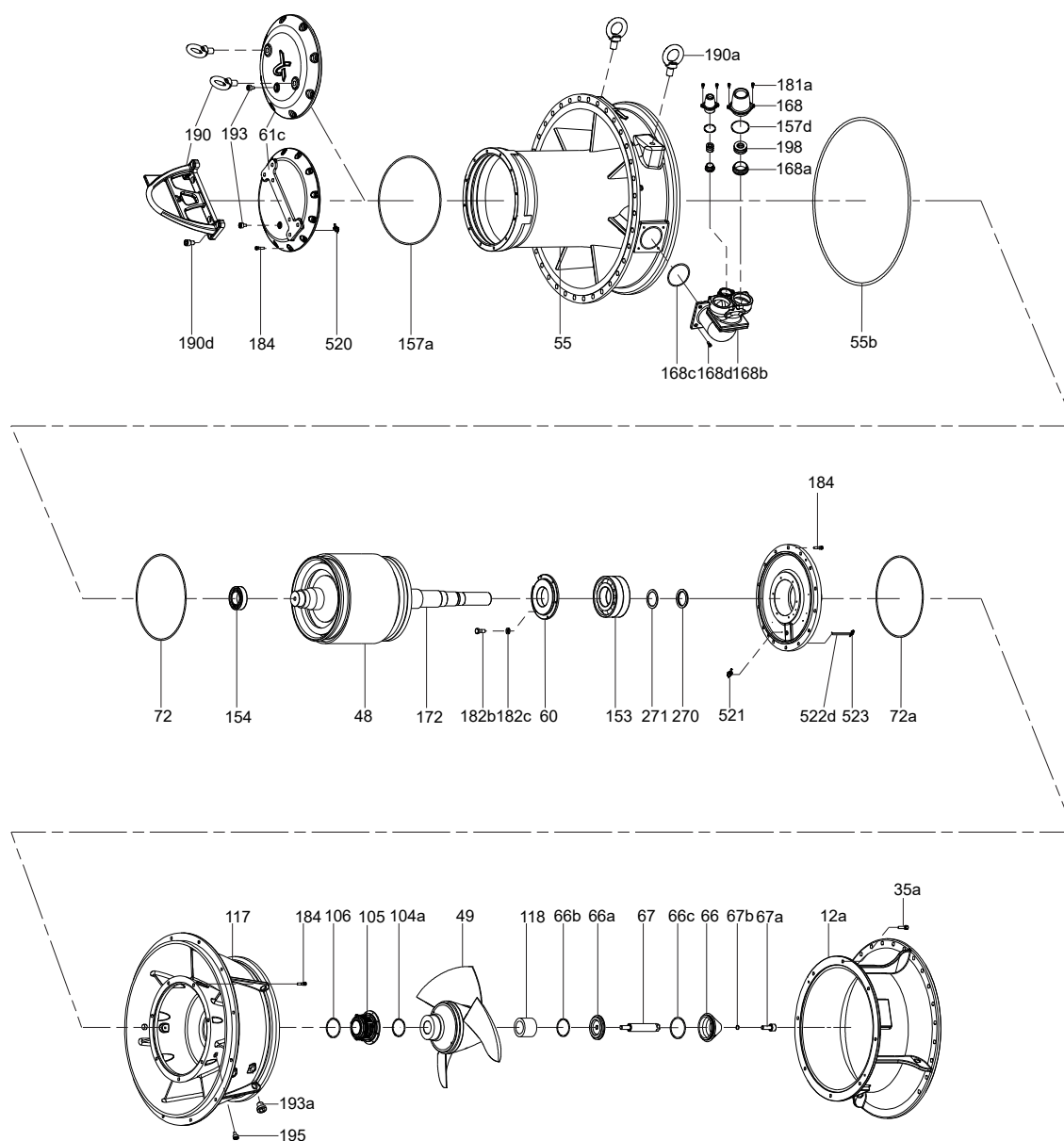




TM075030

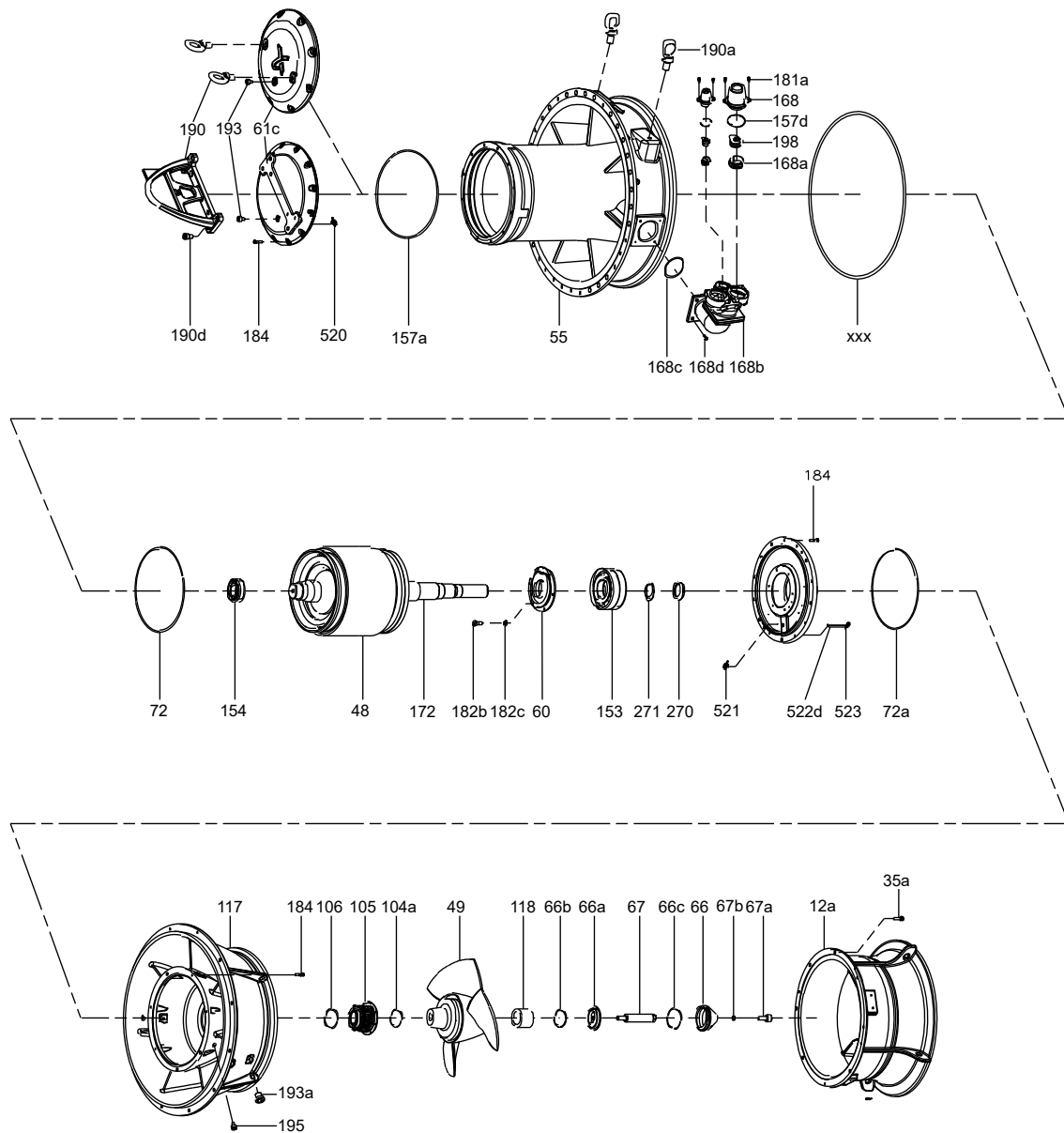
KPG.EB.600 - 1400 sectional view

Exploded views



KPG exploded view

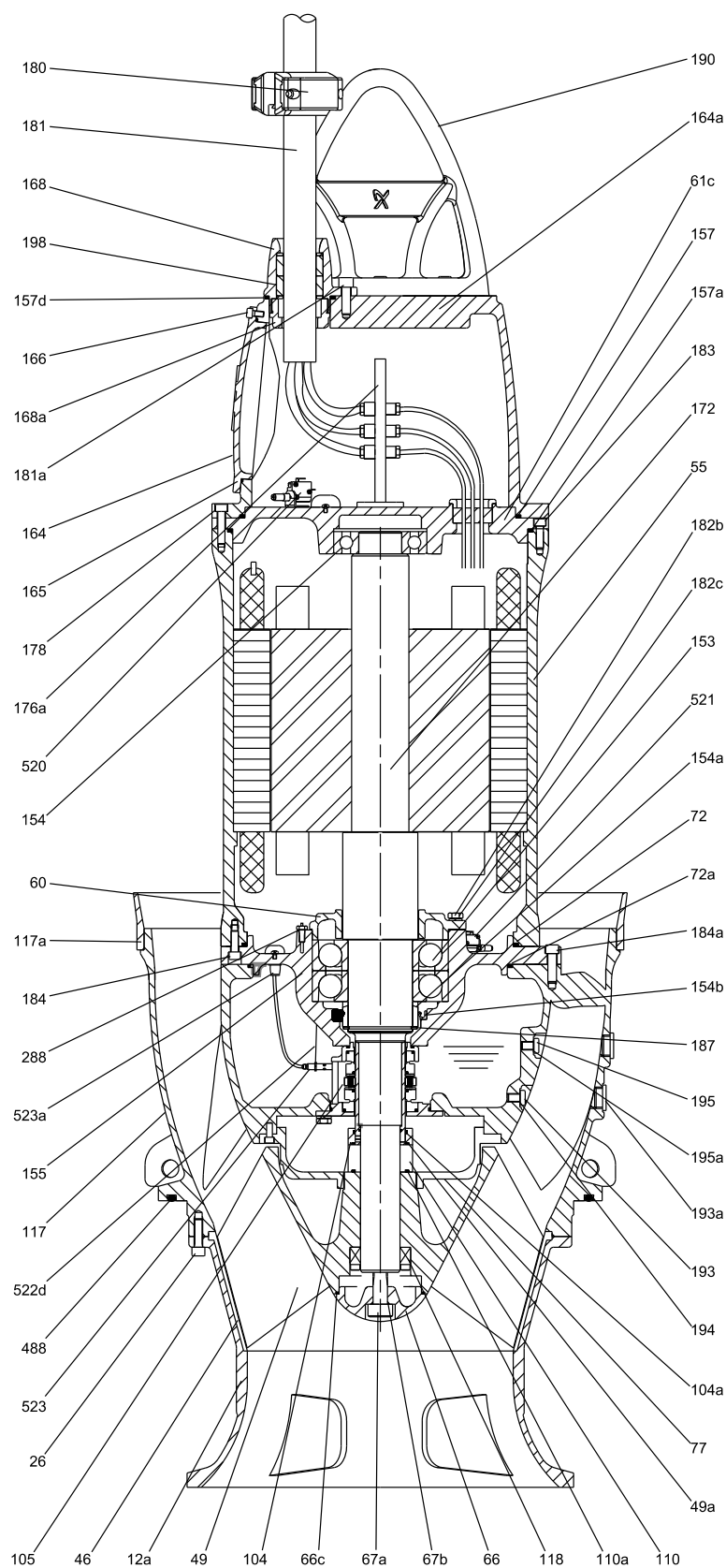
TM073695



TM075031

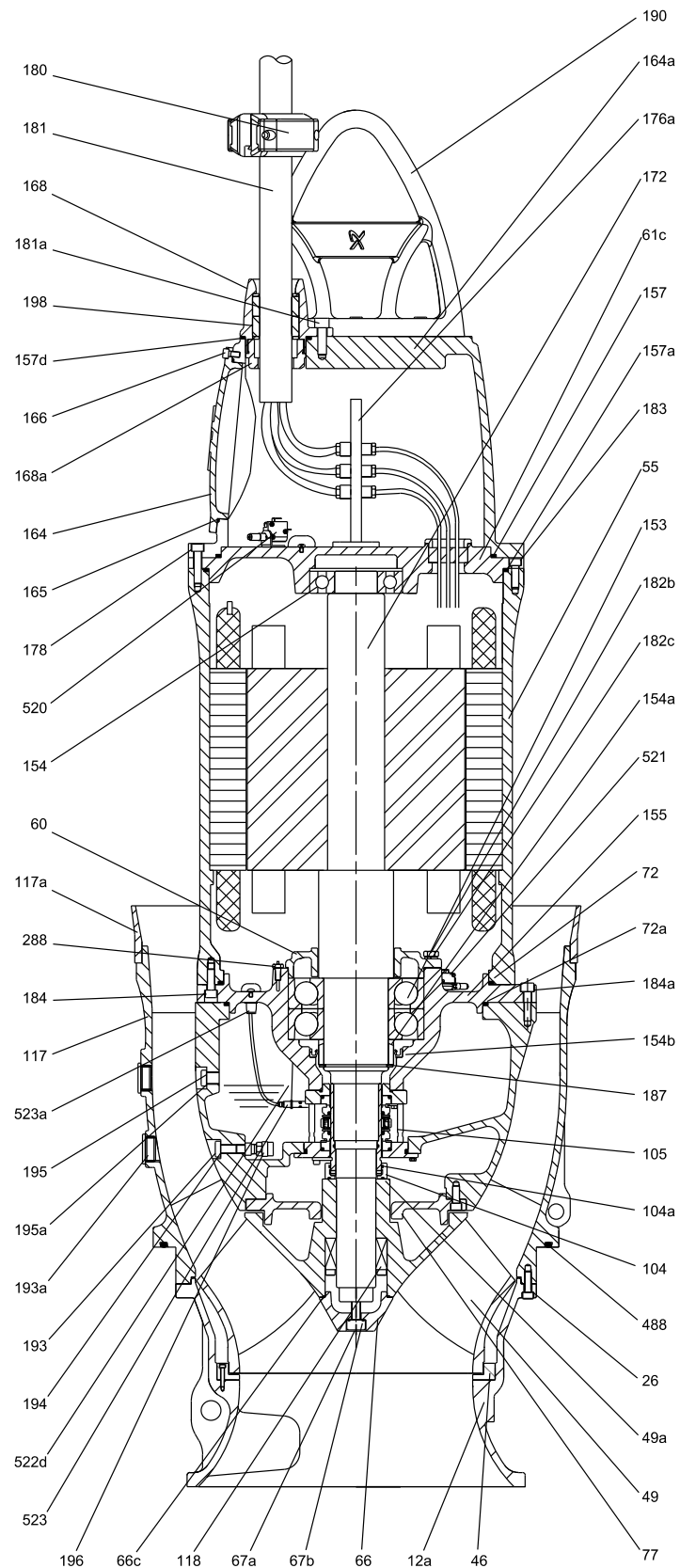
KPG.EB exploded view

6.3 KWM sectional and exploded views



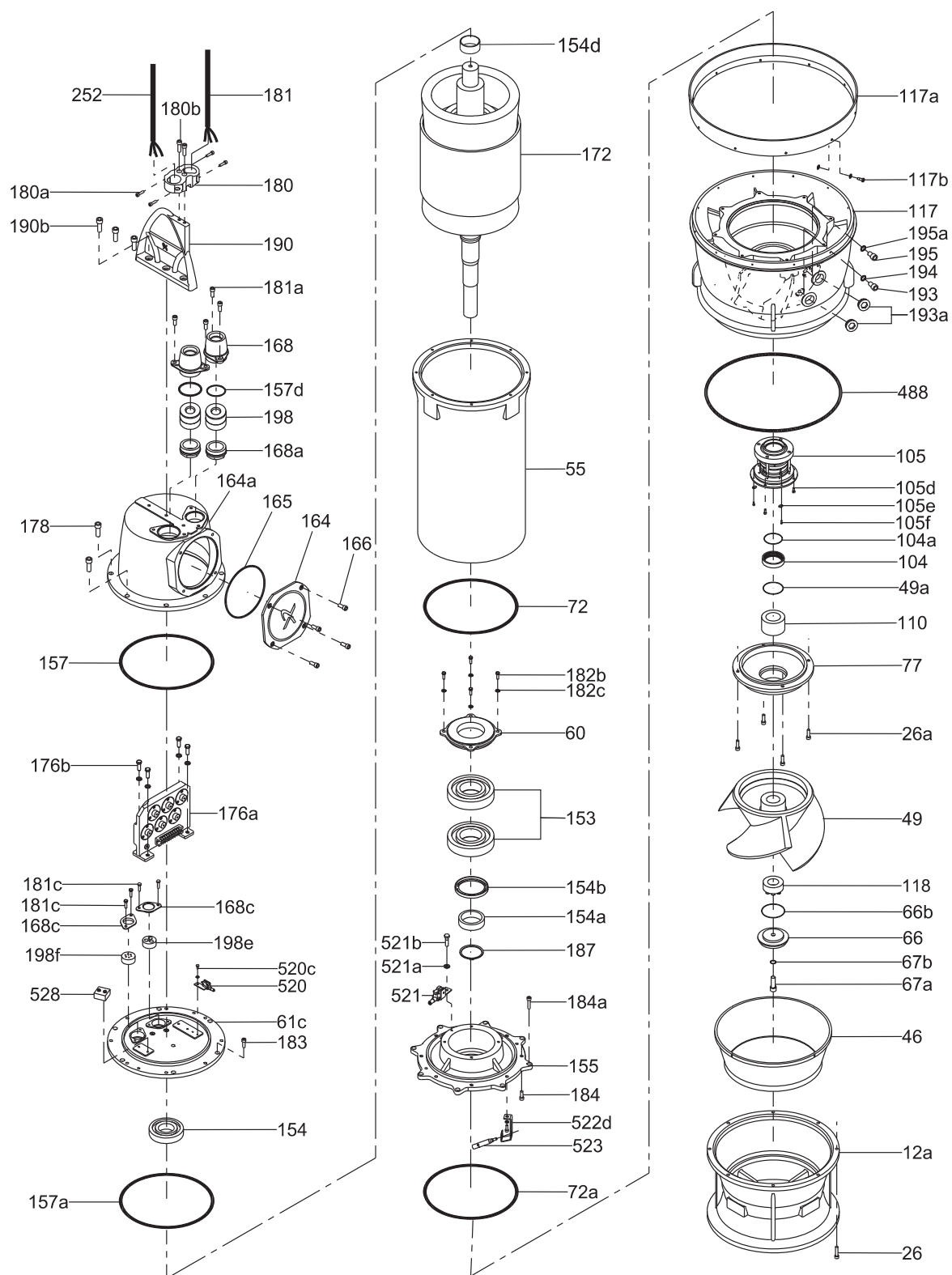
KWM.600 - 700 M sectional view

TM062927



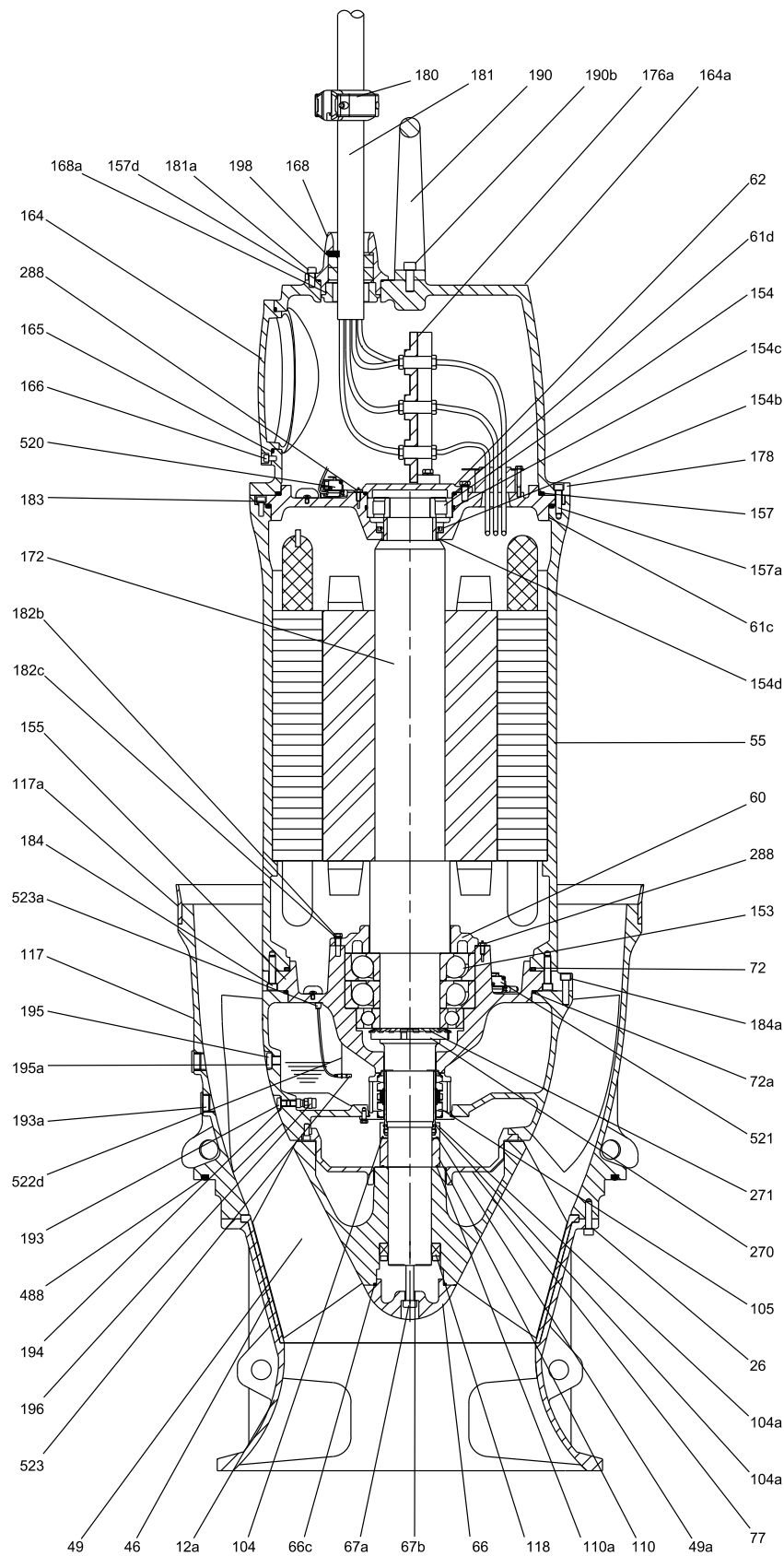
TM062928

KWM.600 - 700 H sectional view



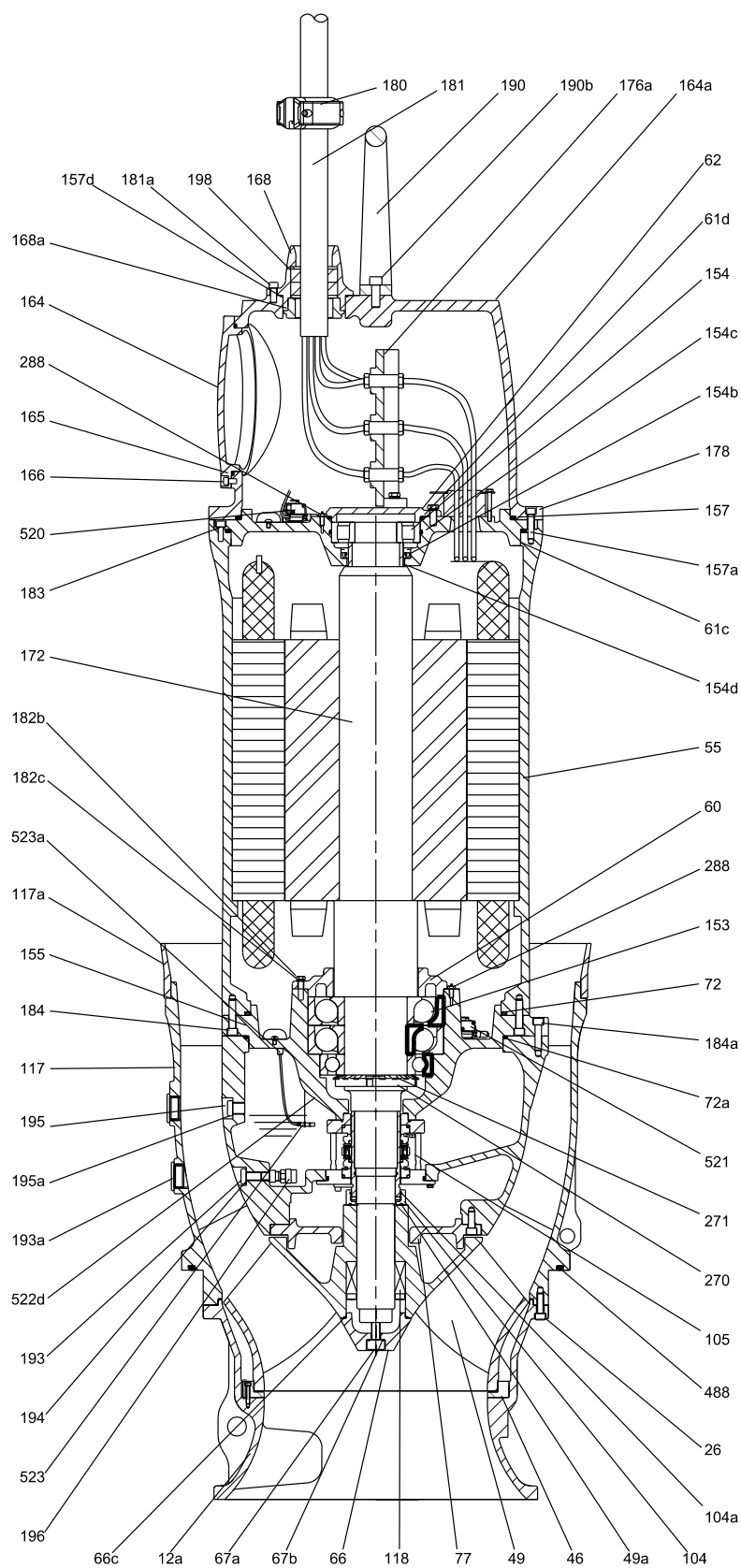
TM060239

KWM.600 - 700 exploded view



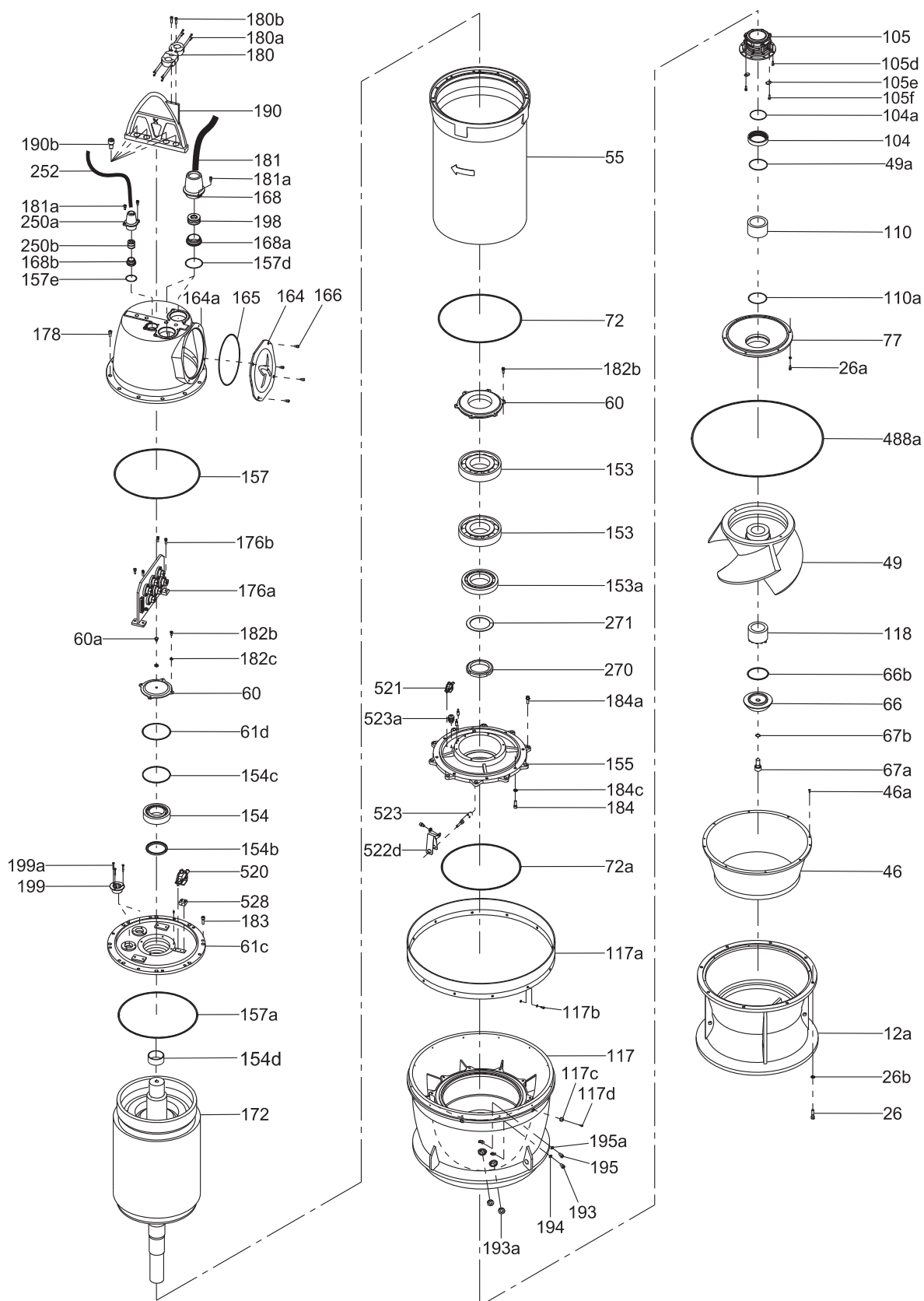
TM062929

KWM.800 - 1600 M sectional view



KWM.800 - 1600 H sectional view

TM062930



TM060240

KWM.800 - 1600 exploded view

6.4 Components and material specification

Pos.	Component	Material	DIN	ASTM
12a	Inlet casing	Cast iron	EN-GJL-250 (EN-JL-1040)	A48-CL35
26	Screw	Stainless steel	X5CrNi-189-1.4301	A276-304
46	Wear ring (KPL)	Stainless steel	X5CrNi-189-1.4301	A276-304
46	Wear ring (KWM)	Ductile cast iron	EN-GJS-450-10	A536-65-45-12
49	Impeller (KWM)	Ductile cast iron	EN-GJS-450-10	A536-65-45-12
49a	O-ring	NBR rubber		
55	Stator housing	Cast iron	EN-GJL-250 (EN-JL-1040)	A48-CL35
60	Bearing bracket cover	Cast iron	EN-GJL-250 (EN-JL-1040)	A48-CL35
61c	Upper bearing bracket	Cast iron	EN-GJL-250 (EN-JL-1040)	A48-CL35
61d	O-ring	NBR rubber		
62	Bearing cover, upper	Cast iron	EN-GJL-250 (EN-JL-1040)	A48-CL35
66	Hub cap (KPL)	Stainless steel	G-X6CrNi-189	A743-CF-8
66	Hub cap (KWM)	Ductile cast iron	EN-GJL-250 (EN-JL-1040)	A536-65-45-12
66a	Washer	Stainless steel	X5CrNi-189-1.4301	A276-304
66b	O-ring	NBR rubber		
66c	O-ring	NBR rubber		
67	Impeller screw	Stainless steel	X5CrNi-189-1.4301	A276-304
67a	Screw	Stainless steel	X5CrNi-189-1.4301	A276-304
67b	O-ring	NBR rubber		
67c	O-ring	NBR rubber		
72	O-ring	NBR rubber		
72a	O-ring	NBR rubber		
77	Water chamber	Cast iron		
77a	Circlip	Steel		
104	Seal ring	Stainless steel	X5CrNi-189-1.4301	A276-304
104a	Seal bushing	Stainless steel	X5CrNi-189-1.4301	A276-304
105	Mechanical seal	SiC/SiC		
110	Intermediate ring	Stainless steel	X5CrNi-189-1.4301	A276-304
110a	O-ring	NBR rubber		
117	Outlet casing	Cast iron	EN-GJL-250 (EN-JL-1040)	A48-CL35
117a	Turbulence Optimiser™	Rubber		
118	Tapered lock bushing	Steel		
153	Ball bearing	Steel		
154	Ball bearing	Steel		
154a	Shaft sleeve	Stainless steel/A276-304		
154b	Seal ring	NBR rubber		
154c	O-ring	NBR rubber		
154d	Sleeve (top bearing)	Stainless steel/A276-304		
155	Lower bearing bracket	Cast iron	EN-GJL-250 (EN-JL-1040)	A48-CL35
157	O-ring	NBR rubber		
157a	O-ring	NBR rubber		
157d	O-ring	NBR rubber		
164	Terminal box cover	Cast iron	EN-GJL-250 (EN-JL-1040)	A48-CL35
164a	Top cover	Cast iron	EN-GJL-250 (EN-JL-1040)	A48-CL35
165	O-ring	NBR rubber		
166	Screw	Stainless steel	X5CrNi-189-1.4301	A276-304
168	Cable entry	Stainless steel	G-X6CrNi-189	A743-CF-8
168a	Cable entry, lower	Cast iron	EN-GJL-250 (EN-JL-1040)	A48-CL35
172	Shaft with rotor	Stainless steel	X10Cr13	A276-410
176a	Terminal board with insulating bushings	Cast iron	EN-GJL-250 (EN-JL-1040)	A48-CL35
178	Screw	Stainless steel	X5CrNi-189-1.4301	A276-304
180	Cable clamp	Stainless steel	X5CrNi-189-1.4301	A276-304

Pos.	Component	Material	DIN	ASTM
181	Cable	PNCT		
181a	Screw	Stainless steel	X5CrNi-189-1.4301	A276-304
182b	Screw	Stainless steel	X5CrNi-189-1.4301	A276-304
182c	Washer	Stainless steel	X5CrNi-189-1.4301	A276-304
183	Screw	Stainless steel	X5CrNi-189-1.4301	A276-304
184	Screw	Stainless steel	X5CrNi-189-1.4301	A276-304
184a	Screw	Stainless steel	X5CrNi-189-1.4301	A276-304
186	Screw	Stainless steel	X5CrNi-189-1.4301	A276-304
186a	Seal bracket	Cast iron	EN-GJL-250 (EN-JL-1040)	A48-CL35
187	Circlip			
190	Lifting bracket	Stainless steel	G-X6CrNi-189	A743-CF-8
190b	Screw	Stainless steel	X5CrNi-189-1.4301	A276-304
193	Oil plug	Stainless steel	X5CrNi-189-1.4301	A276-304
193a	Plug	Stainless steel	X5CrNi-189-1.4301	A276-304
194	O-ring	NBR rubber		
195	Plug	Stainless steel/A276-304		
195a	O-ring	NBR rubber		
196	Non-return valve			
198	Washer/rubber seal/washer	Stainless steel/NBR rubber		
270	Lock nut	Steel		
271	Lock washer	Steel		
288	Bearing temperature sensor			
488	O-ring	NBR rubber		
520	Moisture switch, upper			
521	WIO sensor			
522d	Sensor bracket for WIO	Stainless steel/A276-304		
523	WIO sensor			
523a	Cable gland			
1112	Propeller hub	Stainless steel	G-X6CrNi-189	A743-CF-8
1162	Propeller vane (KPL)	Stainless steel	G-X6CrNi-189	A743-CF-8

Material declaration:

- Grey cast iron is manufactured according to EN 1562:1997
- Stainless steel is manufactured according to EN 10283:2010
- Conversion to other standards, such as AISI/ASTM are normative, and products are not manufactured according to those.

7. Product description

7.1 Features

7.1.1 Bearings

The bearings are lubricated for life.

Main bearings

Angular contact ball bearings and roller bearing with angle ring.

Support bearings

Single-row deep-groove ball bearing and roller bearing.

7.1.2 Shaft seal



The shaft seal separates the motor from the pumped liquid. It consists of two mechanical seals that are both made of silicon carbide.

For convenient service, the two mechanical seals are in a cartridge. This design minimises the risk of incorrect fitting and makes the assembly length shorter compared to conventional shaft seals.

7.1.3 Turbulence Optimiser™



The Turbulence Optimiser™ is an innovative solution for reducing turbulence in the gap between the pump volute and the column pipe. A further positive effect is that misalignment and production tolerances of the column pipe no longer affect efficiency. Turbulence optimisation is only possible, if the pump is mounted on the appropriate column size.

7.1.4 Motor

The motor is a watertight, enclosed motor.

- Motor insulation class: F (155 °C) as standard
- Temperature rise class: F
- Service factor: 1.10
- Enclosure class: IP68.

7.1.5 Power cables

The power cable is 0.6 / 1kV PNCT (standard) or 0.6 / 1kV PNCT-S (screened). The 0.6 kV wires are sensor wires (unused when having a separate sensor cable). The 1 kV wires are the power wires.

Standard cables are 10 m long. Other cable lengths are available on request.

- Maximum conductor temperature: + 90 °C.
- Maximum ambient temperature: + 40 °C.
- Minimum ambient temperature: - 20 °C.
- Conductor: stranded plain copper conductor, class 5 (IEC 60228).
- Insulation: extruded EP rubber.
- Sheath: extruded black rubber (CR rubber).
- Marking:
 - 4-core cable: green/yellow, white, black, red.
 - 7-core cable: green/yellow, black, black, white, white, red, red.

7.1.6 Cables

The pumps have 0.6/1kV PNCT (combined power and control cable) or screened 0.6/1kV PNCT-S (non-combined).

All pumps have standard sensor cables PNCT-S 8 x 2.5.

Pump type	P2 [kW]	No of power cables	Power/control cable [power leads] x [cross-section in mm ²] + [conductor] x [cross-section in mm ²]	Cable outer diameter [mm]	Bending radius [mm]
KPL.500	11, 15, 19, 22	1	6 x 6 + 1 x 4	24	360
KPL.600	15, 19	1	6 x 10 + 1 x 6	34	510
	19	1	6 x 10 + 1 x 6	34	510
	22, 30	1	6 x 16 + 1 x 10	34	510
	37	1	6 x 16 + 1 x 10	34	510
KPL.650		1	6 x 25 + 1 x 16	42	630
	45, 56	1	6 x 25 + 1 x 16	42	630
	75	1	6 x 35 + 1 x 25	45	675
	30	1	6 x 16 + 1 x 10	34	510
KPL.700	37, 45, 56	1	6 x 25 + 1 x 16	42	630
	75	1	6 x 35 + 1 x 25	45	675
	45, 56	1	6 x 25 + 1 x 16	42	630
	56	1	6 x 25 + 1 x 16	42	630
KPL.800	90, 112, 130	1	4 x 95	56	840
	160	1	4 x 120	65	975
	130	1	4 x 120	65	975
KPL.900		1	4 x 120	65	975
	90, 198, 250	1	4 x 95	56	840
KPL.1200	160, 198	2	4 x 95	56	840
	130	1	4 x 120	65	975
	130, 250, 300	2	4 x 120	65	975
KPL.1400	160, 198	2	4 x 95	56	840
	372	2	4 x 150	69	1035
	447	3	4 x 120	65	975
	198	2	4 x 95	56	840
	250, 300	2	4 x 120	65	975
KPL.1500	350, 372, 403	2	4 x 150	69	1035
	447	3	4 x 120	65	975
	496	3	4 x 120	65	975
	544	3	4 x 150	69	1035
	250, 300	2	4 x 120	65	975
KPL.1600	350, 403	2	4 x 150	69	1035
	447	3	4 x 120	65	975
	496	3	4 x 120	65	975

Pump type	P2 [kW]	No of power cables	Power/control cable [power leads] x [cross-section in mm ²] + [conductor] x [cross-section in mm ²]	Cable outer diameter [mm]	Bending radius [mm]
	350, 403	2	4 x 150	69	1035
	447	3	4 x 120	65	975
	496	3	4 x 120	65	975
KPL.1800	496	3	4 x 150	69	1035
	544, 597	3	4 x 150	69	1035
	694	4	4 x 150	69	1035
	790	4	4 x 150	69	1035

Pump type	P2 [kW]	No of power cables	Power/control cable [power leads] x [cross-section in mm ²] + [conductor] x [cross-section in mm ²]	Cable outer diameter [mm]	Bending radius [mm]
KPG.500	11, 15, 19, 22	1	6 x 6 + 1 x 4	24	360
KPG.600	15, 19	1	6 x 10 + 1 x 6	34	510
	19	1	6 x 10 + 1 x 6	34	510
KPG.700	22, 30	1	6 x 16 + 1 x 10	34	510
	37	1	6 x 25 + 1 x 16	42	630
	30	1	6 x 16 + 1 x 10	34	510
KPG.800	37, 45, 56	1	6 x 25 + 1 x 16	42	630
	56	1	6 x 25 + 1 x 16	42	630
KPG.900	90, 112	1	4 x 95	56	840
	130	1	4 x 120	65	975
KPG.1000	90	1	4 x 95	56	840
	160, 198	2	4 x 95	56	840
KPG.1200	130	1	4 x 120	65	975
	250	2	4 x 120	65	975
	130, 250, 300, 372	1	4 x 120	65	975
KPG.1400	250, 300	2	4 x 120	65	975
	372	2	4 x 150	69	1035
	447	3	4 x 120	65	975
	160, 198	2	4 x 95	56	840

Pump type	P2 [kW]	No of power cables	Power/control cable [power leads] x [cross-section in mm ²] + [conductor] x [cross-section in mm ²]	Cable outer diameter [mm]	Bending radius [mm]
KWM.600	30, 37	1	6 x 16 + 1 x 10	34	510
	45	1	6 x 25 + 1 x 16	42	630
	37	1	6 x 16 + 1 x 10	34	510
KWM.700	45, 56	1	6 x 25 + 1 x 16	42	630
	75	1	6 x 35 + 1 x 25	45	675
KWM.800	75	1	6 x 35 + 1 x 25	45	675
	112	1	4 x 95	56	840

Pump type	P2 [kW]	No of power cables	Power/control cable [power leads] x [cross-section in mm ²] + [conductor] x [cross-section in mm ²]	Cable outer diameter [mm]	Bending radius [mm]
KWM.900	112, 130	1	4 x 95	56	840
	160	1	4 x 120	65	975
	198	1	4 x 120	65	975
KWM.1000	160	1	4 x 120	65	975
	198	2	4 x 120	65	975
	198	2	4 x 95	56	840
	226, 250	2	4 x 95	56	840
KWM.1200	198, 226, 250	2	4 x 95	56	840
	300	2	4 x 120	65	975
	350	2	4 x 120	65	975
	403, 447	2	4 x 150	69	1035
	496	3	4 x 120	65	975
KWM.1400	300	2	4 x 120	65	975
	350	2	4 x 120	65	975
	403	2	4 x 150	69	1035
	447	2	4 x 150	69	1035
	447	3	4 x 120	65	975
	496	3	4 x 120	65	975
	544	3	4 x 150	69	1035
	597	3	4 x 150	69	1035
KWM.1600	653	3	4 x 150	69	1035
	496	3	4 x 120	65	975
	544, 597, 653	3	4 x 150	69	1035
	694, 754, 790	4	4 x 150	69	1035

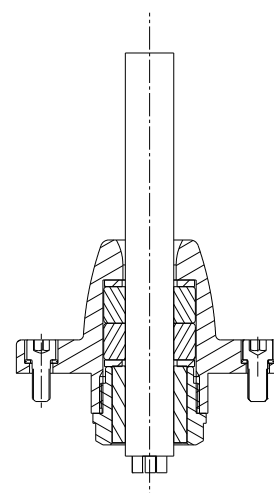
7.1.7 Cable inlet

The cable connection to the motor is watertight, the soft-shaped stainless steel cable entry has dual sealing system:

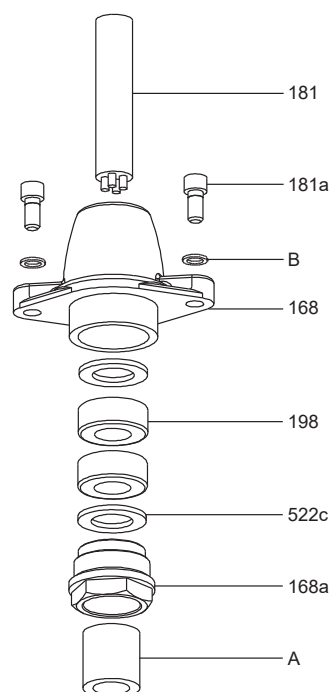
- Primary sealing system: two leak-proof rubber bushes and backup rings.
- Secondary sealing system: two-component epoxy sealing.

The cable entry enables quick and easy disconnection of the cable. Only two bolts need to be unscrewed to remove the cable inlet.

The cable inlets have conductors cast in a potting material to eliminate the risk for penetration of moisture.



Cable inlet sectional view



Cable inlet exploded view

Pos.	Description
181	Cable
181a	Screw
B	Nord lock washer
168	Cable entry
198	Washer/rubber seal/washer
522c	Trust washer
168a	Cable nut
A	Epoxy

TM077161

TM077162

7.1.8 Cable suspension system

Keep all the chains and cables tight in a pipe installation to avoid damage to the cables during operation. Loose cables and chains are exposed to wear and damage and may result in premature failure. Therefore, a reliable cable suspension system is crucial.

Note: Cable suspension system is a mandatory requirement for all column installed KPL and KWM pumps.

7.1.9 Sensors

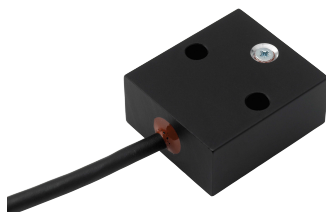
The table shows the difference between standard product and factory product variant (FPV) as to the number of sensors.

Sensor	Type	Standard [Qty]	FPV [Qty]
Stator thermal protection	Bi-metal	3	3
Stator thermal protection	Pt100	1	3 ¹
Terminal box moisture sensor	Switch	1	1
Motor housing moisture sensor	Switch	1	1
Bearing thermal protection (lower)	Pt100	1	1
Bearing thermal protection (upper)	Pt100	1	1
Water-in-oil (WIO) sensor	Analog		1
Vibration sensor	Analog		1

¹ Three Pt100 sensors are mounted in the pump at factory, but only one sensor is connected per standard. It is not possible to connect all 3 stator thermal sensors, if bearing sensors are also connected.

7.1.10 Customised sensor options

PVS 3 (pump vibration sensor)



PVS 3 vibration sensor

The vibration sensor monitors the vibration level of the pump in three axis. A change in the vibration level indicates an abnormal situation. It can be caused by a clogged propeller/impeller, worn bearings and a closed outlet valve, indicating that service inspection must be carried out as soon as possible, to protect the pump or the pipe system from being damaged.

Water-in-oil (WIO) sensor



WIO sensor

The WIO sensor measures the water content in the oil and converts the value into an analog current signal. The two sensor conductors are for power supply and for carrying the signal to the measuring device or controller. The sensor measures the water content from 0 to 20 %. It also sends a signal, if the water content is outside the normal range (warning), or if the oil level is so low that the sensor is in the air (alarm). The sensor is fitted in a stainless steel tube for mechanical protection. The WIO sensor can be connected to the Grundfos IO 113 module.

7.1.11 Testing

All pumps are tested before leaving the factory. The factory test report is based on the ISO 9906:2012, grade 2B standard. Test reports can be ordered directly with the pump or separately based on the pump serial number. The performance test is carried out without a Turbulence Optimiser™.

Other tests or third-party inspection certificates are available on request.

7.2 Operating conditions

7.2.1 Pumped liquids

pH value	4-10
Liquid temperature	0-40 °C

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

7.2.2 Number of starts

The pumps are designed for continuous or intermittent operation. See the maximum number of starts allowed in the table below.

Motor power	Max. number of starts
≤ 90 kW	15 starts per hour
> 90 kW - ≤ 200 kW	10 starts per hour
> 200 kW	10 starts per hour (soft starter)
Max. 5000 starts per year	

In order to avoid overloading of windings, seals and bearings, the above numbers of starts must not be exceeded.

7.2.3 Motor range

KPL

Shaft power [kW]	Number of poles
11	4
15	4
19	4/6
22	4/6
30	6/8
37	6/8
45	8
55	6/8
75	6/8/10
90	6/8/10
110	6/8
132	6/8/10/12/14
160	6/8/10/12/14
200	6/8/10/12/14/16
220	10/12/14
250	8/10/12/14/16
300	8/10/12/14/16
350	10/12/14/16
375	14
400	10/12/14/16
450	12/14/16
500	12/14/16
550	14
600	16
700	16

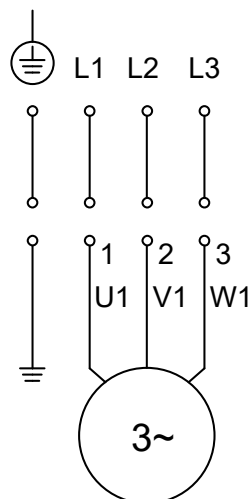
KPG

Shaft power [kW]	Number of poles
11	4/6
15	4/6
19	4/6
22	4/6/8
30	8
37	8
45	8
55	8
75	8/10
90	8/10
110	8
132	10/12/14
160	12/14
200	12/14/16
220	12
250	14

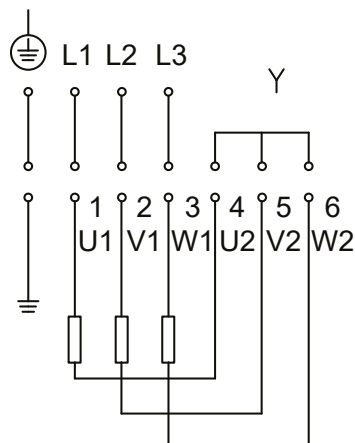
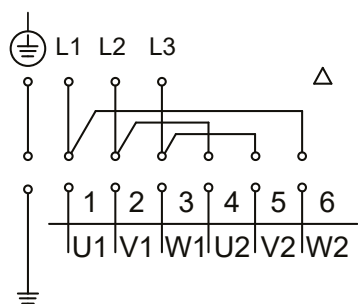
KWM

Shaft power [kW]	Number of poles
37	4
45	4/6
55	4/6
65	4
75	4/6
90	4/6
110	4/6
132	6
160	6
200	6/8/10
220	6/8/10
250	6/8/10
300	6/8/10/12
350	6/8/10/12
400	8/12
450	8/10
500	8/10/14
550	8/10/14
600	10/14
650	10/14

7.2.4 Wiring diagrams



Direct-On-Line start



Star-Delta start

7.3 Controllers

7.3.1 Level controllers



Grundfos DC

Grundfos Dedicated Controls (DC) are ideal for KPL, KPG and KWM pumps.

Grundfos DC is a control system designed for installation in municipal wastewater transportation, commercial buildings or network pumping stations with up to six pumps and an optional mixer or a flush valve. Grundfos DC provides advanced control and data communication. The control cabinets are delivered with a built-in main switch and thermal magnetic circuit breaker.

Features and benefits

- Advanced flow calculation
- Automatic energy optimisation
- Easy installation and configuration
- Configuration wizard
- Electrical overview
- Advanced data communication
- Advanced alarm and warning priority
- Supports several languages
- Daily emptying
- Mixer control or flush valve
- User-defined functions
- Anti-blocking
- Start level variation
- Advanced pump alternation with pump groups
- SMS scheduling
- Communication to SCADA, BMS, GRM or cell phone.

Grundfos DC is available either with or without a built-in CIM communication interface module. The communication module enables the possibility for fieldbus protocol (e.g. PROFIBUS DP, Modbus RTU and PROFINET IO/Modbus TCP) and the communication line.

For further product information about Grundfos DC, see the following documents at Grundfos Product Center:

- Grundfos Dedicated Controls, brochure (publication no. 96925597)
- Grundfos iSolutions, data booklet (publication no. 98390992)

- Grundfos Controls Guide (publication no. 97954965)
- Grundfos Dedicated Controls, data booklet (publication no. 97722329).

7.3.2 IO 113



TM077033

IO 113 module

IO 113 is a protection module for Grundfos storm- and wastewater pumps. IO 113 has inputs for digital and analog pump sensors, and can stop the pump, if a sensor indicates a fault. IO 113 can be connected to the Grundfos DC system and allows advanced monitoring functions:

- motor temperature
- moisture in motor
- water in oil
- insulation resistance.

7.3.3 SM 113



TM077034

SM 113 module

SM 113 is used for collection and transfer of sensor data in pumps with multiple sensors. SM 113 can be placed either inside the pump (allowing fewer sensor leads out of the pump) or in the control cabinet next to the pump installation.

SM 113 works together with IO 113 through power-line communication using the Grundfos GENIbus protocol. SM 113 can collect data from:

- 3 current sensors, 4-20 mA
- 3 Pt100 or 3 Pt1000 thermal sensors
- 1 PTC thermal sensor
- 1 digital input.

7.3.4 CU 362 operating panel



TM073841

Pos.	Description
1	Display
2	Right
3	Help
4	Back
5	OK (accept)
6	Home
7	Contrast
8	Indicator light, operation (green)
9	Indicator light, fault (red)

7.3.5 MP 204



TM073846

MP 204

MP 204 can be used as a stand-alone motor protector. MP 204 may also be incorporated in a Grundfos DC system, in which it functions as a motor protector. The pump is protected secondarily by measuring the temperature with a Pt100 sensor and a PTC sensor or thermal switch.

In addition, MP 204 offers the following features:

- anti-blocking
- monitoring of:
 - voltage
 - current
 - current asymmetry
 - phase sequence
 - power factor ($\cos \phi$)
 - power
 - energy
 - insulation resistance
 - temperature, Pt100/Pt1000
 - temperature, PTC
 - temperature, Tempcon.

7.3.6 Frequency converter



All KPL, KPG and KWM pumps can be connected to a frequency converter - ideally to a Grundfos CUE, - or a soft starter, depending on choice. When pumps are connected to a frequency converter pay attention to the motor insulation system.

The minimum frequency depends on the type of application and the design of the discharge piping. Always consider the following when determining the minimum frequency:

- mass of the water above the propeller
- the force required to keep valves open
- the velocity reaction forces.

These factors vary from case to case. The minimum frequency has to produce the necessary torque and force from the impeller and propeller to overcome the above mentioned factors.

In environments with high content of sand, for example water treatment plants, a self-cleaning velocity of at least 1 m/s must be ensured in the column's largest diameter.

Ramp down over 30 seconds is recommended to the minimum frequency of positive flow.

7.3.7 Additional features, CUE or VFD

The optional CUE or VFD, which is either a Grundfos or a general variable frequency converter, offers better pump protection and a more steady flow through the pipe system.

In addition, Grundfos CUE and VFD offer the following features:

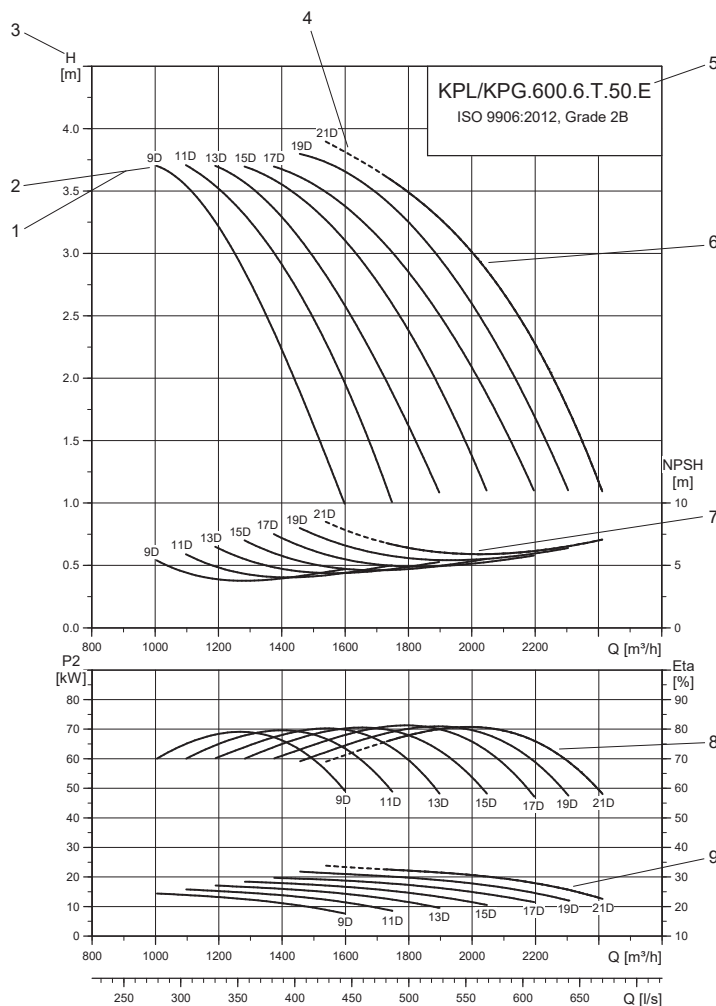
- anti-blocking
- automatic energy optimisation
- specific-energy test
- output frequency
- monitoring of:
 - voltage¹
 - current¹
 - phase sequence¹
 - power¹
 - energy¹
 - torque¹
- reverse start

Note: Reverse start results in damage to the pump and column pipe. KPL and KWM pumps are forbidden to reverse start / operate.
- run flushing
- stop flushing
- PID control.

¹ These functions are only available with Grundfos CUE.

8. Performance curves and technical data

8.1 How to read the performance curves



TM073842

Pos.	Description
1	KPL/KPG - Propeller number
2	KWM - Impeller diameter: xxx mm
3	Total pump head: $H = H_{\text{total}}$
4	Limited P2 $P2_{\text{max}} = \text{xx kW}$
5	Pump type
6	$P2_{\text{max}}$ range exceeded
7	NPSH curve Note: When sizing the pump, add at least 0.5 metre safety margin.
8	Hydraulic efficiency
9	Pump shaft power (P2)

The pumps are tested according to ISO 9906:2012, 2B tolerance. Testing equipment and measuring instruments are designed and calibrated according to the standards mentioned. The pumps are approved according to tolerances for entire curves, specified in grade 2B.

8.2 Curve conditions

These guidelines apply to the curves indicated in the performance charts:

- Tolerances according to ISO 9906:2012, grade 2B
- The curves indicate pump performance with different impeller/propeller diameters at rated speed.
- NPSH: the curves indicate average values calculated under the same conditions as the performance curves.
- Consider setting up the pump based on the maximum and minimum inlet and outlet levels and select the duty point as close to the normal operating point as possible.
- Take both the net positive suction head (NPSH) and minimum water level (MWL) into consideration to avoid vortex dragging air into the pump inlet.

Calculation of total 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 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.

Related information

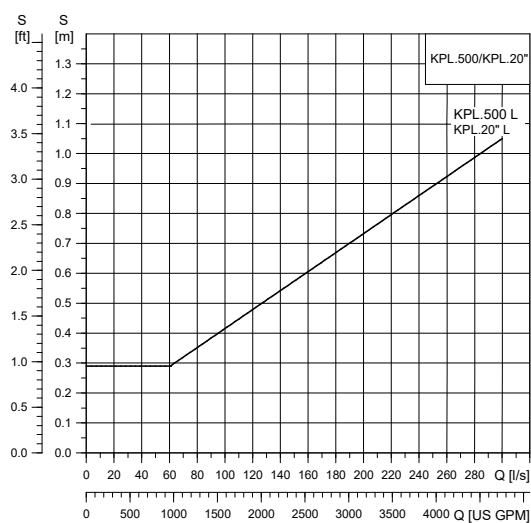
[8.4 Minimum water levels](#)

8.3 Performance tests

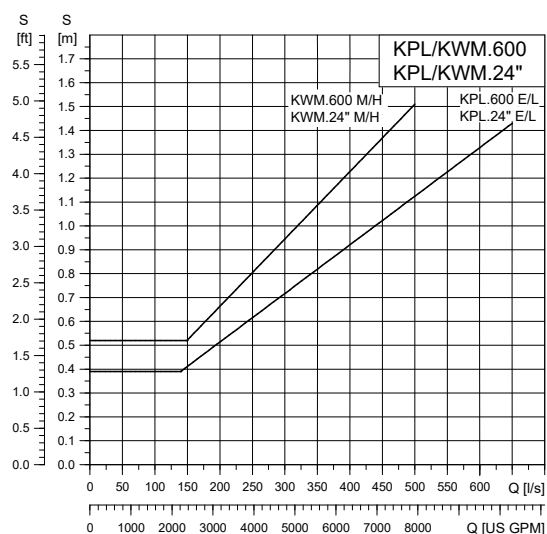
The requested duty point for each pump is tested according to ISO 9906:2012, grade 2B, and without certification.

8.4 Minimum water levels

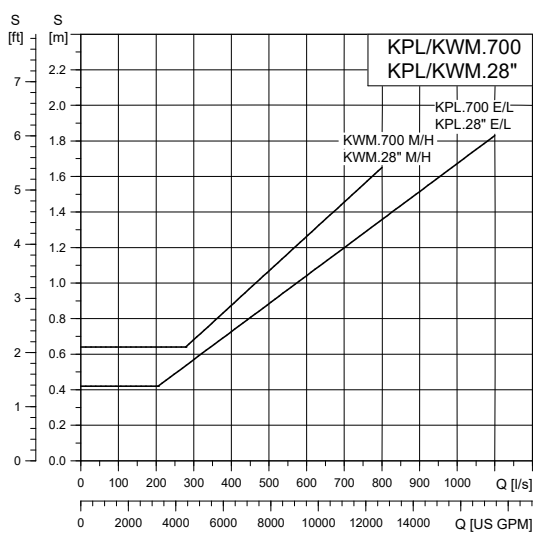
The curves charts below show the relation between flow rate and recommended minimum submergence (S).



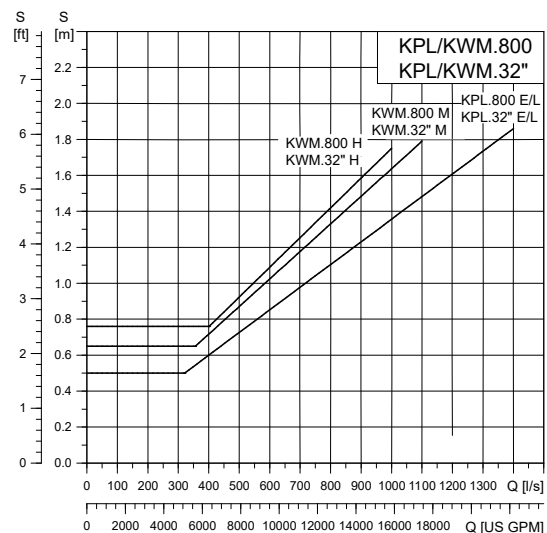
TM078864



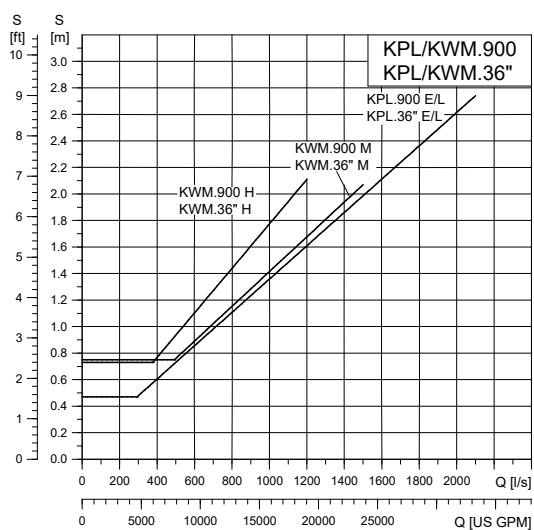
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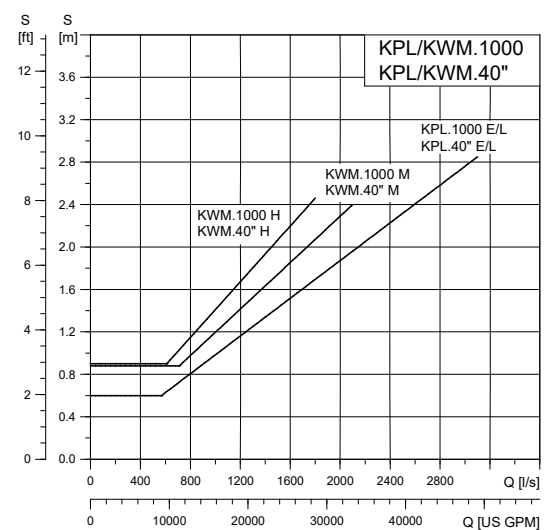
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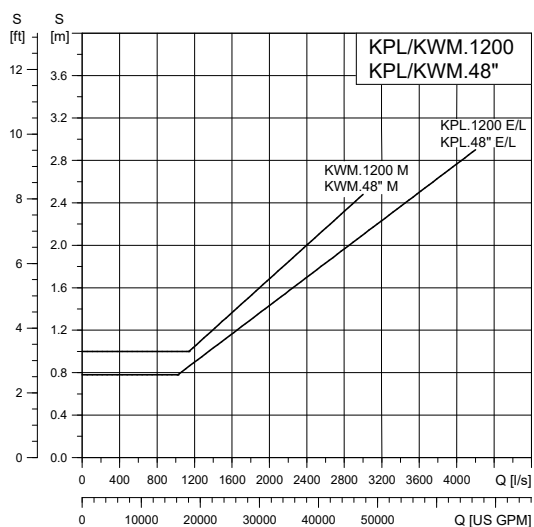
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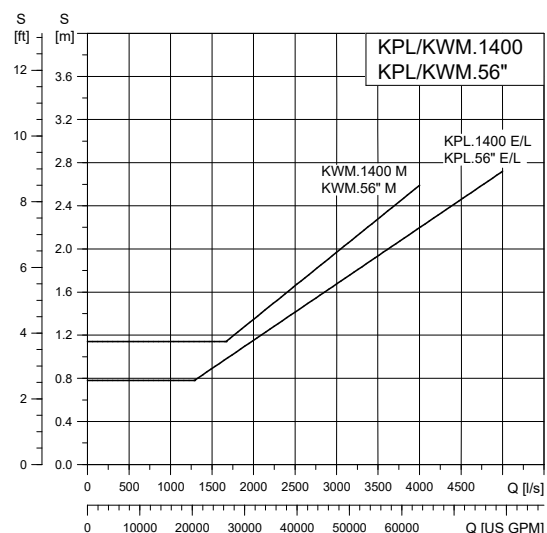
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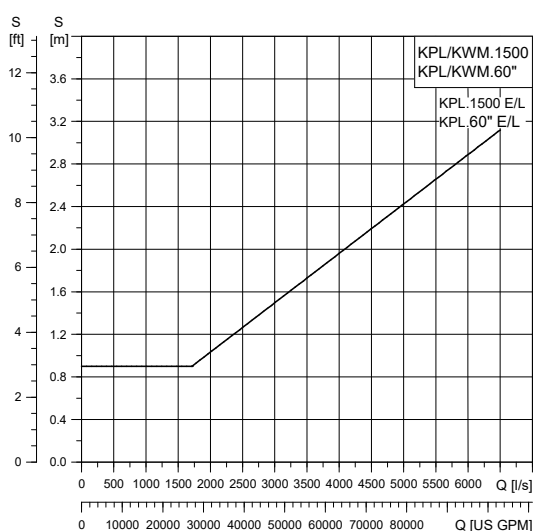
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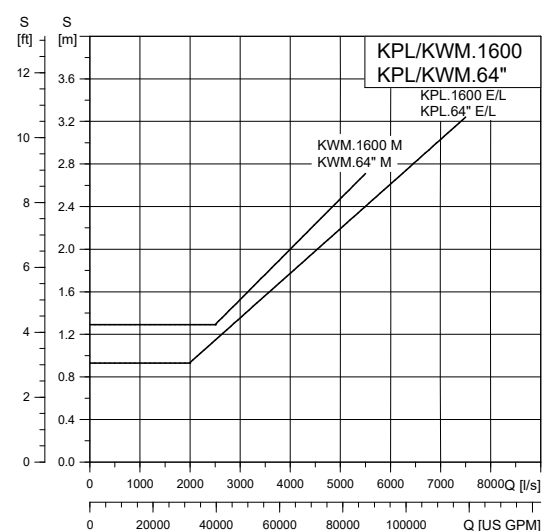
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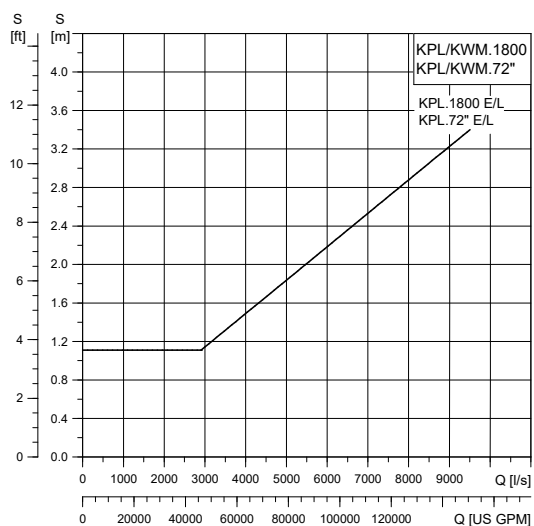
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TM078872



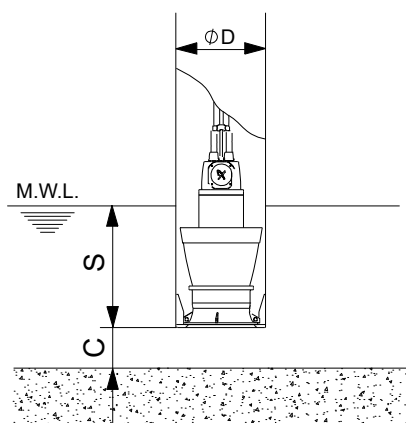
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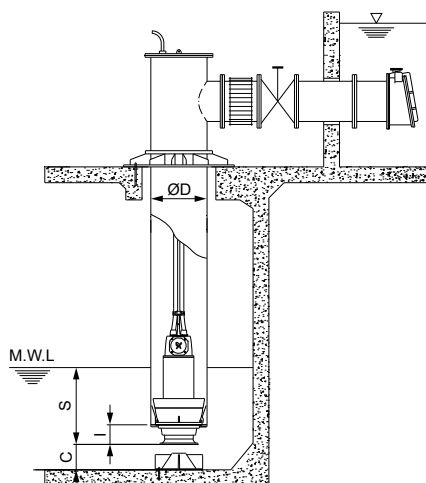
8.4.1 KPL installation requirements

$$M.W.L. = C + S$$



TM074054

Installation dimensions, KPL



TM059455

Installation dimensions, KPL pump, ACC installed

Requirements for installation

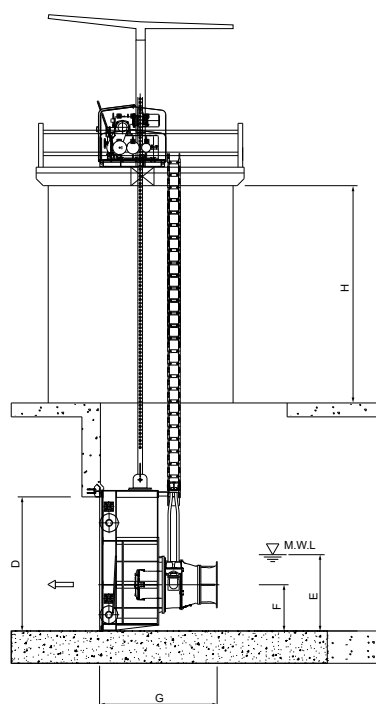
ØD [mm]	C [mm]
500	250
600	300
650	325
700	350
800	400
900	450
1000	500
1200	600
1400	700
1500	750
1600	800
1800	900

8.4.2 KPG installation requirements

The requirements for installation are indicated in the table below. The figures show installation examples.

Note: All distances in the table below are minimum dimensions

Model	Outlet diameter	D [mm]	E [mm]	F [mm]	G [mm]	H [mm]
KPG.500	DN 500	1450	900	500	1250	3700
KPG.600	DN 600	1700	1050	600	1500	4200
KPG.700	DN 700	1700	1250	700	1500	4500
KPG.800	DN 800	1950	1400	800	1750	4500
KPG.900	DN 900	2200	1600	850	2000	5200
KPG.1000	DN 1000	2200	1750	900	2000	5200
KPG.1200	DN 1200	2450	2000	1100	2250	5700
KPG.1400	DN 1400	2450	2250	1300	2250	5700

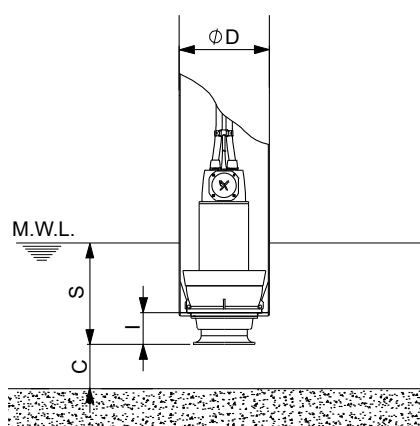


Installation dimensions, KPG

TM073741

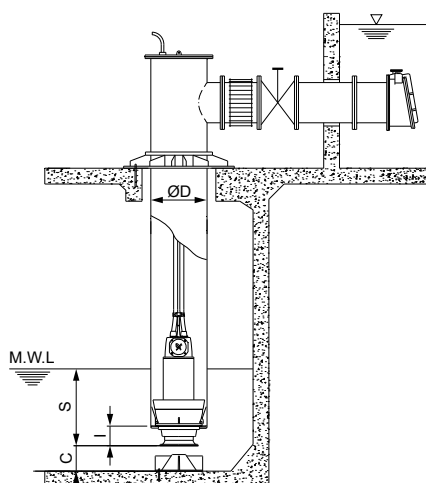
8.4.3 KWM installation requirements

$$M.W.L. = C + S$$



TM074053

Installation dimensions, KWM pump



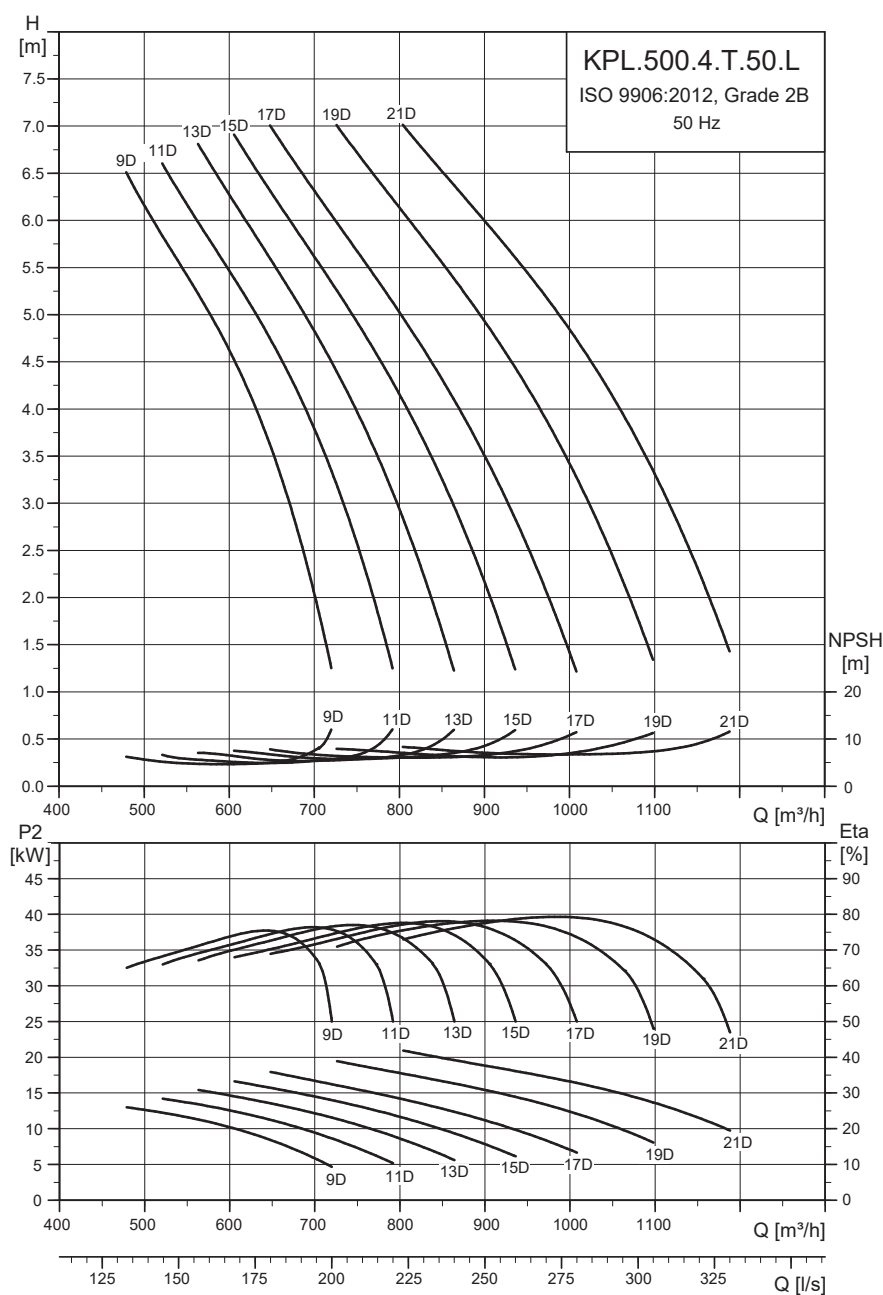
TM059455

Installation dimensions, KWM pump, ACC installed

Requirements for installation

ØD [mm]	C [mm]	I [mm]
600M	300	280
600H	300	270
700	350	400
800M	400	440
800H	400	425
900	450	575
1000M	500	650
1000H	500	575
1200	600	740
1400	700	835
1600	800	940

8.5 KPL.500.---.4.T.50.L



TM065024

Pump data

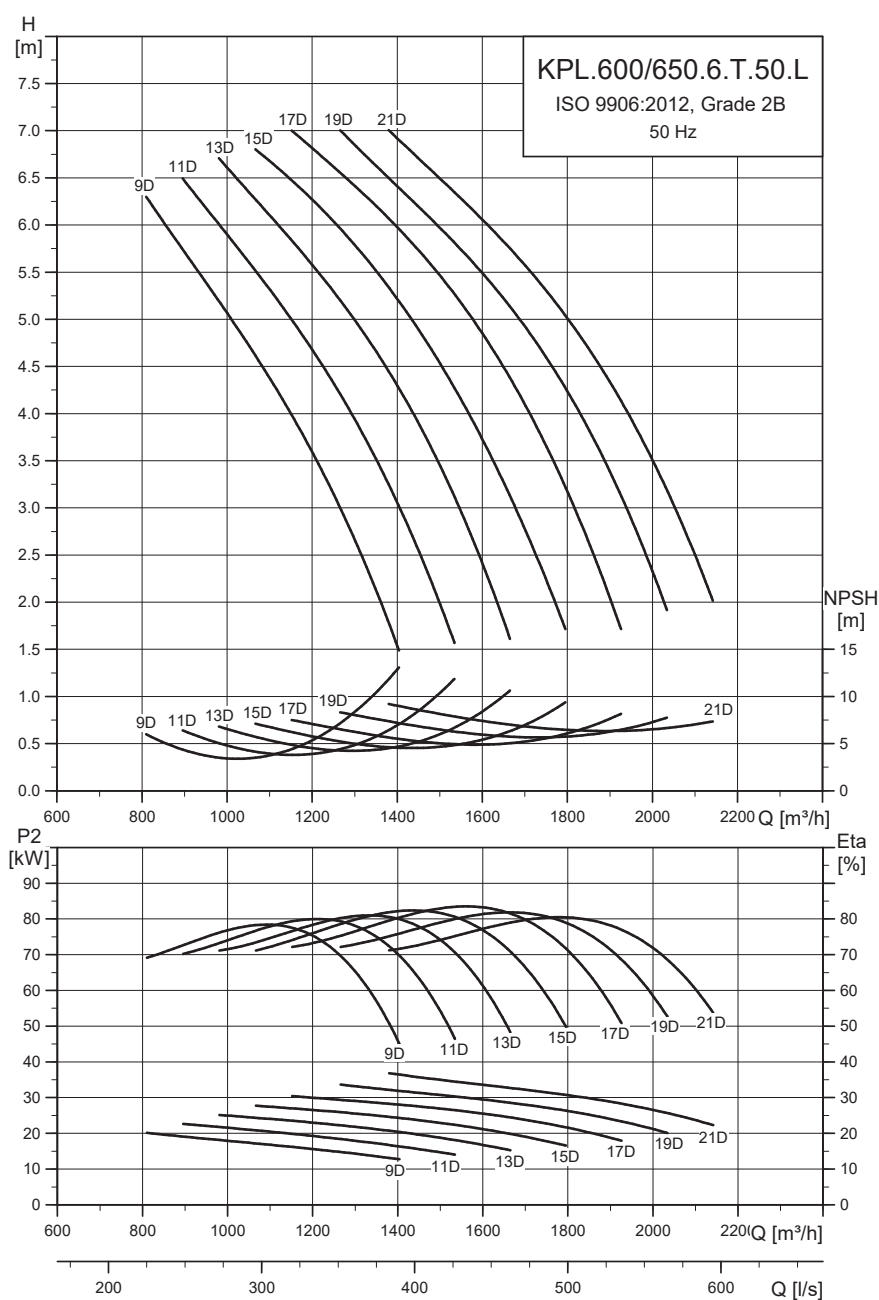
Model	No of poles	Discharge column size [mm]	Propeller no	Propeller diam. [mm]	No of blades	Free passage [mm]	Min. flow rate [m³/h]	Moment of inertia [kgm²]	
								Motor	Propeller
KPL.500.11.4.T.50.9.L.40	4	500	9	270	4	35	576	0.29	0.038
KPL.500.11.4.T.50.11.L.40	4	500	11	270	4	40	674	0.29	0.038
KPL.500.15.4.T.50.9.L.40	4	500	9	270	4	35	479	0.39	0.038
KPL.500.15.4.T.50.11.L.40	4	500	11	270	4	40	521	0.39	0.038
KPL.500.15.4.T.50.13.L.40	4	500	13	270	4	45	563	0.39	0.038
KPL.500.15.4.T.50.15.L.40	4	500	15	270	4	48	695	0.39	0.038
KPL.500.15.4.T.50.17.L.40	4	500	17	270	4	50	775	0.39	0.038
KPL.500.19.4.T.50.15.L.40	4	500	15	270	4	48	606	0.58	0.038
KPL.500.19.4.T.50.17.L.40	4	500	17	270	4	50	648	0.58	0.038

Model	No of poles	Discharge column size [mm]	Propeller no	Propeller diam. [mm]	No of blades	Free passage [mm]	Min. flow rate [m ³ /h]	Moment of inertia [kgm ²]	
								Motor	Propeller
KPL.500.19.4.T.50.19.L.40	4	500	19	270	4	55	726	0.58	0.038
KPL.500.19.4.T.50.21.L.40	4	500	21	270	4	60	884	0.58	0.038
KPL.500.22.4.T.50.19.L.40	4	500	19	270	4	55	726	0.66	0.038
KPL.500.22.4.T.50.21.L.40	4	500	21	270	4	60	804	0.66	0.038

Electrical data

Model	P2 [kW]	min ⁻¹	I _{start} [A]		I _N [A]		η _{motor} [%]			Cos φ			Breakdown torque [Nm]
			380 V	400 V	380 V	400 V	1/2	3/4	1/1	1/2	3/4	1/1	
KPL.500.11.4.T.50.9.L	11	1450	131.2	124.6	23.4	22.3	84.5	86.5	87.0	67.0	77.0	82.0	180
KPL.500.11.4.T.50.11.L	11	1450	131.2	124.6	23.4	22.3	84.5	86.5	87.0	67.0	77.0	82.0	180
KPL.500.15.4.T.50.9.L	15	1450	175.8	167.0	31.4	29.8	85.5	87.5	88.0	67.5	77.5	82.5	245
KPL.500.15.4.T.50.11.L	15	1450	175.8	167.0	31.4	29.8	85.5	87.5	88.0	67.5	77.5	82.5	245
KPL.500.15.4.T.50.13.L	15	1450	175.8	167.0	31.4	29.8	85.5	87.5	88.0	67.5	77.5	82.5	245
KPL.500.15.4.T.50.15.L	15	1450	175.8	167.0	31.4	29.8	85.5	87.5	88.0	67.5	77.5	82.5	245
KPL.500.15.4.T.50.17.L	15	1450	175.8	167.0	31.4	29.8	85.5	87.5	88.0	67.5	77.5	82.5	245
KPL.500.19.4.T.50.15.L	19	1450	221.4	210.3	39.5	37.6	86.0	88.0	88.5	67.5	77.5	82.5	298
KPL.500.19.4.T.50.17.L	19	1450	221.4	210.3	39.5	37.6	86.0	88.0	88.5	67.5	77.5	82.5	298
KPL.500.19.4.T.50.19.L	19	1450	221.4	210.3	39.5	37.6	86.0	88.0	88.5	67.5	77.5	82.5	298
KPL.500.19.4.T.50.21.L	19	1450	221.4	210.3	39.5	37.6	86.0	88.0	88.5	67.5	77.5	82.5	298
KPL.500.22.4.T.50.19.L	22	1450	251.9	239.3	45.0	42.7	86.5	88.5	89.0	68.5	78.5	83.5	346
KPL.500.22.4.T.50.21.L	22	1450	251.9	239.3	45.0	42.7	86.5	88.5	89.0	68.5	78.5	83.5	346

8.6 KPL.600/650.---.6.T.50.L



TM065023

Pump data

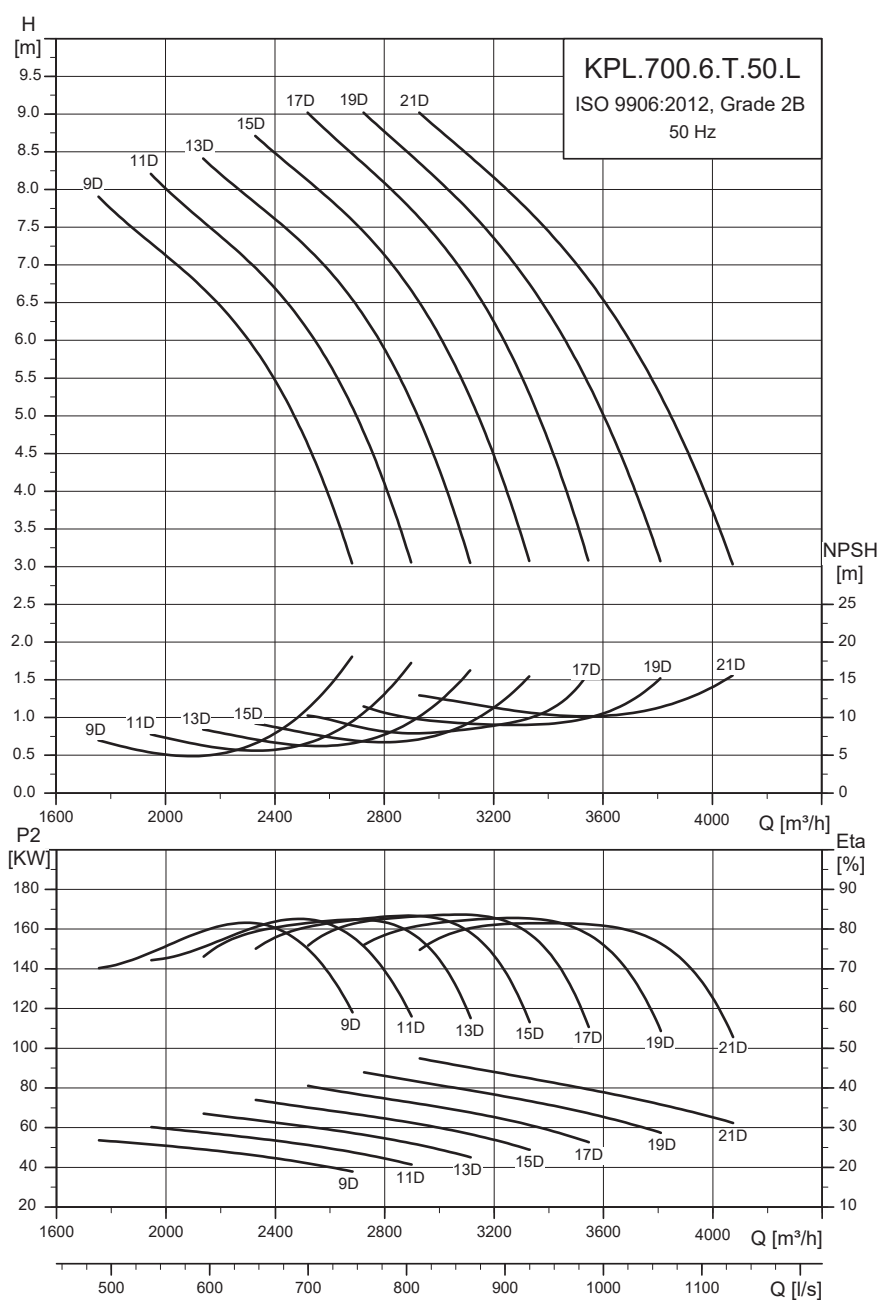
Model	No of poles	Discharge column size [mm]	Propeller no	Propeller diam. [mm]	No of blades	Free passage [mm]	Min. flow rate [m³/h]	Moment of inertia [kgm²]	
								Motor	Propeller
KPL.600.19.6.T.50.9.L	6	600	9	380	4	50	920	0.61	0.21
KPL.600.19.6.T.50.11.L	6	600	11	380	4	55	1228	0.61	0.21
KPL.600.19.6.T.50.13.L	6	600	13	380	4	60	1488	0.61	0.21
KPL.600.22.6.T.50.9.L	6	600	9	380	4	50	810	0.67	0.21
KPL.600.22.6.T.50.11.L	6	600	11	380	4	55	950	0.67	0.21
KPL.600.22.6.T.50.13.L	6	600	13	380	4	60	1260	0.67	0.21
KPL.600.22.6.T.50.15.L	6	600	15	380	4	65	1550	0.67	0.21
KPL.650.30.6.T.50.15.L	6	650	15	380	4	65	1067	3.7	0.21

Model	No of poles	Discharge column size [mm]	Propeller no	Propeller diam. [mm]	No of blades	Free passage [mm]	Min. flow rate [m³/h]	Moment of inertia [kgm²]	
								Motor	Propeller
KPL.650.30.6.T.50.17.L	6	650	17	380	4	70	1152	3.7	0.21
KPL.650.30.6.T.50.19.L	6	650	19	380	4	75	1475	3.7	0.21
KPL.650.30.6.T.50.21.L	6	650	21	380	4	80	1800	3.7	0.21
KPL.650.37.6.T.50.21.L	6	650	21	380	4	80	1380	4.3	0.21

Electrical data

Model	P2 [kW]	min ⁻¹	I _{start} [A]		I _N [A]		η _{motor} [%]			Cos φ			Breakdown torque [Nm]
			380 V	400 V	380 V	400 V	1/2	3/4	1/1	1/2	3/4	1/1	
KPL.600.19.6.T.50.9.L	19	950	234.0	222.3	41.8	39.7	85.5	87.5	88.0	60.5	72.5	78.5	470
KPL.600.19.6.T.50.11.L	19	950	234.0	222.3	41.8	39.7	85.5	87.5	88.0	60.5	72.5	78.5	470
KPL.600.19.6.T.50.13.L	19	950	234.0	222.3	41.8	39.7	85.5	87.5	88.0	60.5	72.5	78.5	470
KPL.600.22.6.T.50.9.L	22	950	266.1	252.8	47.5	45.1	86.0	88.0	88.5	62.0	73.5	79.5	545
KPL.600.22.6.T.50.11.L	22	950	266.1	252.8	47.5	45.1	86.0	88.0	88.5	62.0	73.5	79.5	545
KPL.600.22.6.T.50.13.L	22	950	266.1	252.8	47.5	45.1	86.0	88.0	88.5	62.0	73.5	79.5	545
KPL.600.22.6.T.50.15.L	22	950	266.1	252.8	47.5	45.1	86.0	88.0	88.5	62.0	73.5	79.5	545
KPL.650.30.6.T.50.15.L	30	950	356.3	338.5	63.6	60.4	86.5	88.5	89.0	62.5	74.5	80.5	713
KPL.650.30.6.T.50.17.L	30	950	356.3	338.5	63.6	60.4	86.5	88.5	89.0	62.5	74.5	80.5	713
KPL.650.30.6.T.50.19.L	30	950	356.3	338.5	63.6	60.4	86.5	88.5	89.0	62.5	74.5	80.5	713
KPL.650.30.6.T.50.21.L	30	950	356.3	338.5	63.6	60.4	86.5	88.5	89.0	62.5	74.5	80.5	713
KPL.650.37.6.T.50.21.L	37	950	434.3	412.5	77.5	73.7	87.0	89.0	89.5	63.0	75.0	81.0	878

8.7 KPL.700.---.6.T.50.L



TM065022

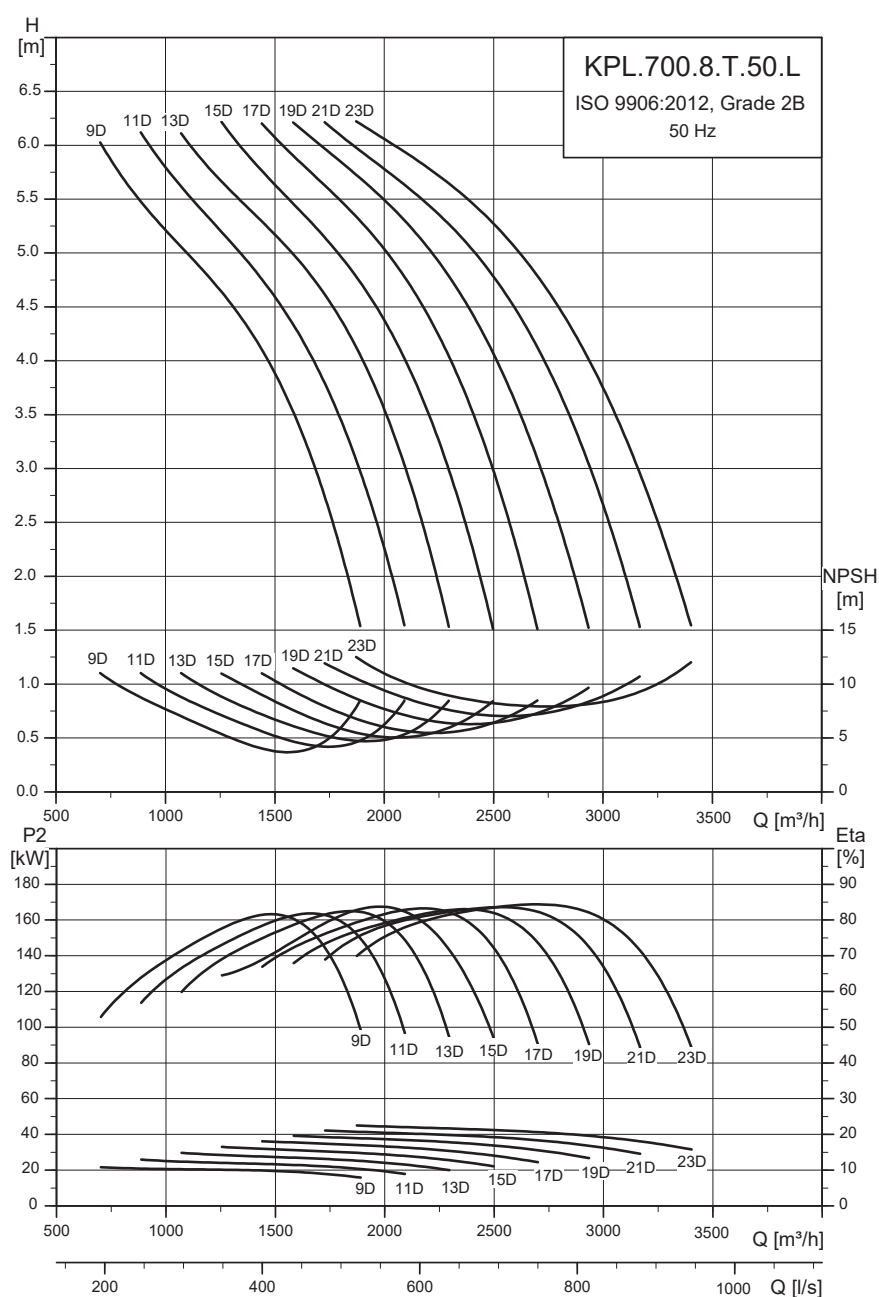
Pump data

Model	No of poles	Discharge column size [mm]	Propeller no	Propeller diam. [mm]	No of blades	Free passage [mm]	Min. flow rate [m³/h]	Moment of inertia [kgm²]	
								Motor	Propeller
KPL.700.55.6.T.50.9.L	6	700	9	470	4	70	1755	6.1	0.63
KPL.700.55.6.T.50.11.L	6	700	11	470	4	75	2200	6.1	0.63
KPL.700.55.6.T.50.13.L	6	700	13	470	4	80	2745	6.1	0.63
KPL.700.75.6.T.50.13.L	6	700	13	470	4	80	2138	13.6	0.63
KPL.700.75.6.T.50.15.L	6	700	15	470	4	88	2329	13.6	0.63
KPL.700.75.6.T.50.17.L	6	700	17	470	4	95	2520	13.6	0.63
KPL.700.75.6.T.50.19.L	6	700	19	470	4	100	3280	13.6	0.63
KPL.700.75.6.T.50.21.L	6	700	21	470	4	105	3685	13.6	0.63
KPL.700.90.6.T.50.19.L	6	700	19	470	4	100	2723	17.8	0.63
KPL.700.90.6.T.50.21.L	6	700	21	470	4	105	3130	17.8	0.63
KPL.700.110.6.T.50.21.L	6	700	21	470	4	105	2928	24.5	0.63

Electrical data

Model	P2 [kW]	min ⁻¹	I _{start} [A]		I _N [A]		η _{motor} [%]			Cos φ			Breakdown torque [Nm]
			380 V	400 V	380 V	400 V	1/2	3/4	1/1	1/2	3/4	1/1	
KPL.700.55.6.T.50.9.L	55	950	626.5	595.1	111.9	106.3	87.5	89.5	90.0	66.0	77.5	83	1251
KPL.700.55.6.T.50.11.L	55	950	626.5	595.1	111.9	106.3	87.5	89.5	90.0	66.0	77.5	83	1251
KPL.700.55.6.T.50.13.L	55	950	626.5	595.1	111.9	106.3	87.5	89.5	90.0	66.0	77.5	83	1251
KPL.700.75.6.T.50.13.L	75	950	842.2	800.1	150.4	142.9	87.8	89.8	90.2	67.0	78.5	84	1707
KPL.700.75.6.T.50.15.L	75	950	842.2	800.1	150.4	142.9	87.8	89.8	90.2	67.0	78.5	84	1707
KPL.700.75.6.T.50.17.L	75	950	842.2	800.1	150.4	142.9	87.8	89.8	90.2	67.0	78.5	84	1707
KPL.700.75.6.T.50.19.L	75	950	842.2	800.1	150.4	142.9	87.8	89.8	90.2	67.0	78.5	84	1707
KPL.700.75.6.T.50.21.L	75	950	842.2	800.1	150.4	142.9	87.8	89.8	90.2	67.0	78.5	84	1707
KPL.700.90.6.T.50.19.L	90	950	995.5	945.7	177.8	168.9	88.0	90.0	90.5	68.0	79.5	85	1958
KPL.700.90.6.T.50.21.L	90	950	995.5	945.7	177.8	168.9	88.0	90.0	90.5	68.0	79.5	85	1958
KPL.700.110.6.T.50.21.L	110	950	1199.9	1139.9	214.3	203.6	88.3	90.3	90.7	69.0	80.5	86	2385.7

8.8 KPL.700.---.8.T.50.L



TM065021

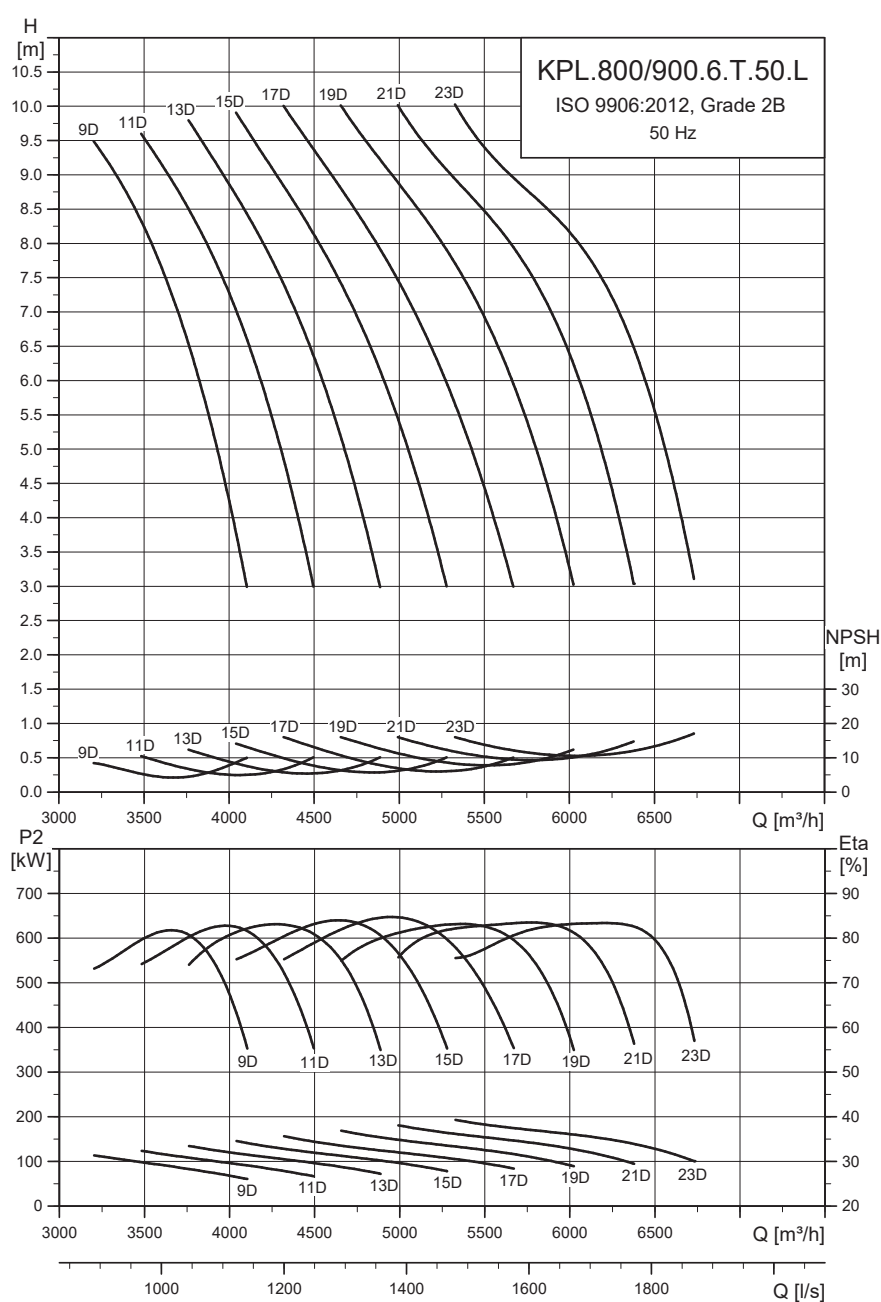
Pump data

Model	No of poles	Discharge column size [mm]	Propeller no	Propeller diam. [mm]	No of blades	Free passage [mm]	Min. flow rate [m³/h]	Moment of inertia [kgm²]	
								Motor	Propeller
KPL.700.30.8.T.50.9.L	8	700	9	470	4	70	702	5.7	0.63
KPL.700.30.8.T.50.11.L	8	700	11	470	4	75	887	5.7	0.63
KPL.700.30.8.T.50.13.L	8	700	13	470	4	80	1071	5.7	0.63
KPL.700.30.8.T.50.15.L	8	700	15	470	4	88	1692	5.7	0.63
KPL.700.37.8.T.50.13.L	8	700	13	470	4	80	1071	6.3	0.63
KPL.700.37.8.T.50.15.L	8	700	15	470	4	88	1256	6.3	0.63
KPL.700.37.8.T.50.17.L	8	700	17	470	4	95	1440	6.3	0.63
KPL.700.37.8.T.50.19.L	8	700	19	470	4	100	2088	6.3	0.63
KPL.700.37.8.T.50.21.L	8	700	21	470	4	105	2710	6.3	0.63
KPL.700.45.8.T.50.19.L	8	700	19	470	4	100	1584	7.2	0.63
KPL.700.45.8.T.50.21.L	8	700	21	470	4	105	1728	7.2	0.63
KPL.700.45.8.T.50.23.L	8	700	23	470	4	110	1872	7.2	0.63

Electrical data

Model	P2 [kW]	min ⁻¹	I _{start} [A]		I _N [A]		η _{motor} [%]			Cos φ			Breakdown torque [Nm]
			380 V	400 V	380 V	400 V	1/2	3/4	1/1	1/2	3/4	1/1	
KPL.700.30.8.T.50.9.L	30	720	370.0	351.5	67.3	63.9	86.0	87.8	88.0	60.0	72.0	77.0	869
KPL.700.30.8.T.50.11.L	30	720	370.0	351.5	67.3	63.9	86.0	87.8	88.0	60.0	72.0	77.0	869
KPL.700.30.8.T.50.13.L	30	720	370.0	351.5	67.3	63.9	86.0	87.8	88.0	60.0	72.0	77.0	869
KPL.700.30.8.T.50.15.L	30	720	370.0	351.5	67.3	63.9	86.0	87.8	88.0	60.0	72.0	77.0	869
KPL.700.37.8.T.50.13.L	37	720	453.7	431.0	82.5	78.4	86.5	88.3	88.5	60.0	72.0	77.0	1071
KPL.700.37.8.T.50.15.L	37	720	453.7	431.0	82.5	78.4	86.5	88.3	88.5	60.0	72.0	77.0	1071
KPL.700.37.8.T.50.17.L	37	720	453.7	431.0	82.5	78.4	86.5	88.3	88.5	60.0	72.0	77.0	1071
KPL.700.37.8.T.50.19.L	37	720	453.7	431.0	82.5	78.4	86.5	88.3	88.5	60.0	72.0	77.0	1071
KPL.700.37.8.T.50.21.L	37	720	453.7	431.0	82.5	78.4	86.5	88.3	88.5	60.0	72.0	77.0	1071
KPL.700.45.8.T.50.19.L	45	720	545.2	517.9	99.1	94.2	87.0	88.8	89.0	60.5	72.5	77.5	1245
KPL.700.45.8.T.50.21.L	45	720	545.2	517.9	99.1	94.2	87.0	88.8	89.0	60.5	72.5	77.5	1245
KPL.700.45.8.T.50.23.L	45	720	545.2	517.9	99.1	94.2	87.0	88.8	89.0	60.5	72.5	77.5	1245

8.9 KPL.800/900.---.6.T.50.L



TM065020

Pump data

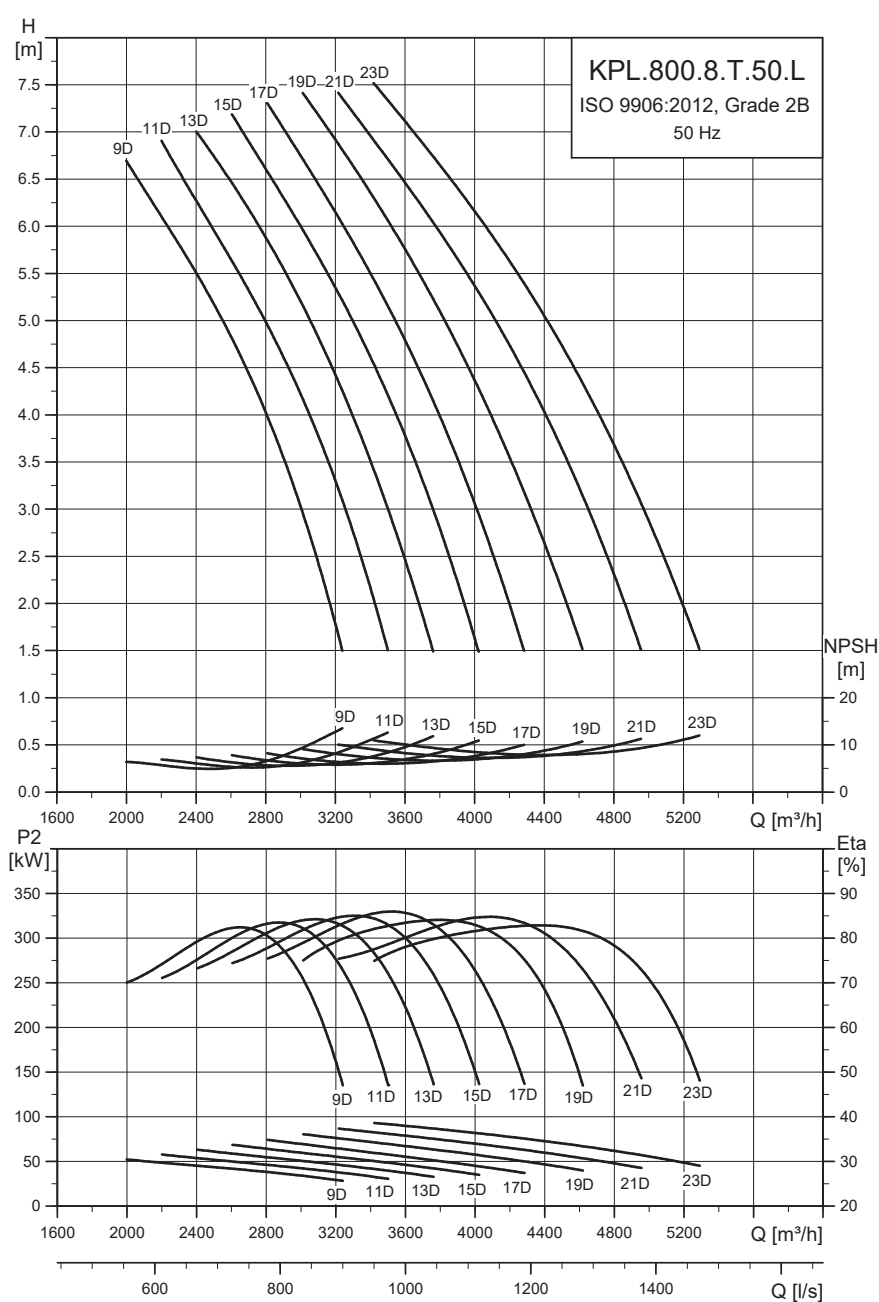
Model	No of poles	Discharge column size [mm]	Propeller no	Propeller diam. [mm]	No of blades	Free passage [mm]	Min. flow rate [m³/h]	Moment of inertia [kgm²]	
								Motor	Propeller
KPL.800.110.6.T.50.9.L	6	800	9	540	4	80	3204	24.5	1.15
KPL.800.110.6.T.50.11.L	6	800	11	540	4	85	3650	24.5	1.15
KPL.800.110.6.T.50.13.L	6	800	13	540	4	90	4243	24.5	1.15
KPL.800.110.6.T.50.15.L	6	800	15	540	4	95	4762	24.5	1.15
KPL.900.132.6.T.50.13.L	6	900	13	540	4	90	3762	27.8	1.15
KPL.900.132.6.T.50.15.L	6	900	15	540	4	95	4200	27.8	1.15
KPL.900.132.6.T.50.17.L	6	900	17	540	4	105	4750	27.8	1.15
KPL.900.132.6.T.50.19.L	6	900	19	540	4	110	5248	27.8	1.15
KPL.900.160.6.T.50.17.L	6	900	17	540	4	105	4320	38.9	1.15
KPL.900.160.6.T.50.19.L	6	900	19	540	4	110	4656	38.9	1.15

KPL.900.160.6.T.50.21.L	6	900	21	540	4	118	5327	38.9	1.15
KPL.900.160.6.T.50.23.L	6	900	23	540	4	125	5975	38.9	1.15
KPL.900.200.6.T.50.21.L	6	900	21	540	4	118	4991	42.4	1.15
KPL.900.200.6.T.50.23.L	6	900	23	540	4	125	5328	42.4	1.15

Electrical data

Model	P2 [kW]	min ⁻¹	I _{start} [A]		I _N [A]		η _{motor} [%]			Cos φ			Breakdown torque [Nm]
			380 V	400 V	380 V	400 V	1/2	3/4	1/1	1/2	3/4	1/1	
KPL.800.110.6.T.50.9.L	110	950	1199.9	1139.9	214.3	203.6	88.3	90.3	90.7	69.0	80.5	86.0	2385.7
KPL.800.110.6.T.50.11.L	110	950	1199.9	1139.9	214.3	203.6	88.3	90.3	90.7	69.0	80.5	86.0	2385.7
KPL.800.110.6.T.50.13.L	110	950	1199.9	1139.9	214.3	203.6	88.3	90.3	90.7	69.0	80.5	86.0	2385.7
KPL.800.110.6.T.50.15.L	110	950	1199.9	1139.9	214.3	203.6	88.3	90.3	90.7	69.0	80.5	86.0	2385.7
KPL.900.132.6.T.50.13.L	132	950	1475.0	1401.3	254.3	241.6	91.4	91.6	91.7	76.1	83.8	86.0	3082.9
KPL.900.132.6.T.50.15.L	132	950	1475.0	1401.3	254.3	241.6	91.4	91.6	91.7	76.1	83.8	86.0	3082.9
KPL.900.132.6.T.50.17.L	132	950	1475.0	1401.3	254.3	241.6	91.4	91.6	91.7	76.1	83.8	86.0	3082.9
KPL.900.132.6.T.50.19.L	132	950	1475.0	1401.3	254.3	241.6	91.4	91.6	91.7	76.1	83.8	86.0	3082.9
KPL.900.160.6.T.50.17.L	160	950	1716.1	1630.3	306.4	291.1	91.4	91.5	91.5	75.2	83.2	86.7	3837.9
KPL.900.160.6.T.50.19.L	160	950	1716.1	1630.3	306.4	291.1	91.4	91.5	91.5	75.2	83.2	86.7	3837.9
KPL.900.160.6.T.50.21.L	160	950	1716.1	1630.3	306.4	291.1	91.4	91.5	91.5	75.2	83.2	86.7	3837.9
KPL.900.160.6.T.50.23.L	160	950	1716.1	1630.3	306.4	291.1	91.4	91.5	91.5	75.2	83.2	86.7	3837.9
KPL.900.200.6.T.50.21.L	200	950	2126.1	2019.8	379.7	360.7	91.8	91.9	92.0	78.6	85.1	87.0	4087.1
KPL.900.200.6.T.50.23.L	200	950	2126.1	2019.8	379.7	360.7	91.8	91.9	92.0	78.6	85.1	87.0	4087.1

8.10 KPL.800.---.8.T.50.L



TM065019

Pump data

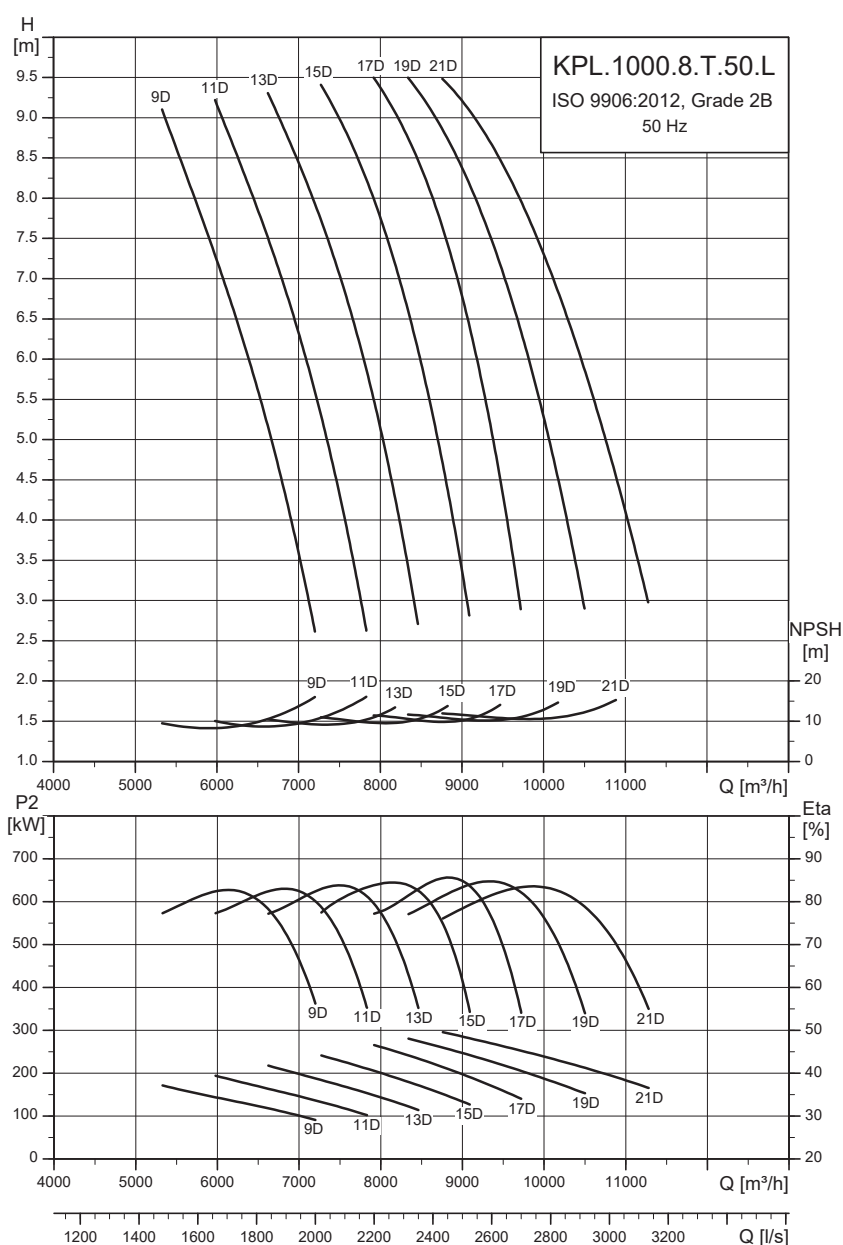
Model	No of poles	Discharge column size [mm]	Propeller no	Propeller diam. [mm]	No of blades	Free passage [mm]	Min. flow rate [m³/h]	Moment of inertia [kgm²]	
								Motor	Propeller
KPL.800.45.8.T.50.9.L	8	800	9	540	4	80	2430	7.2	1.15
KPL.800.45.8.T.50.11.L	8	800	11	540	4	85	2822	7.2	1.15
KPL.800.55.8.T.50.9.L	8	800	9	540	4	80	1998	15.5	1.15
KPL.800.55.8.T.50.11.L	8	800	11	540	4	85	2201	15.5	1.15
KPL.800.55.8.T.50.13.L	8	800	13	540	4	90	2852	15.5	1.15
KPL.800.55.8.T.50.15.L	8	800	15	540	4	95	2900	15.5	1.15
KPL.800.55.8.T.50.17.L	8	800	17	540	4	105	3195	15.5	1.15
KPL.800.75.8.T.50.13.L	8	800	13	540	4	90	2403	18.4	1.15
KPL.800.75.8.T.50.15.L	8	800	15	540	4	95	2606	18.4	1.15
KPL.800.75.8.T.50.17.L	8	800	17	540	4	105	2808	18.4	1.15
KPL.800.75.8.T.50.19.L	8	800	19	540	4	110	3251	18.4	1.15
KPL.800.75.8.T.50.21.L	8	800	21	540	4	118	3780	18.4	1.15

Model	No of poles	Discharge column size [mm]	Propeller no	Propeller diam. [mm]	No of blades	Free passage [mm]	Min. flow rate [m³/h]	Moment of inertia [kgm²]	
								Motor	Propeller
KPL.800.75.8.T.50.23.L	8	800	23	540	4	125	4265	18.4	1.15
KPL.800.90.8.T.50.15.L	8	800	15	540	4	95	2606	22.1	1.15
KPL.800.90.8.T.50.17.L	8	800	17	540	4	105	2808	22.1	1.15
KPL.800.90.8.T.50.19.L	8	800	19	540	4	110	3012	22.1	1.15
KPL.800.90.8.T.50.21.L	8	800	21	540	4	118	3215	22.1	1.15
KPL.800.90.8.T.50.23.L	8	800	23	540	4	125	3420	22.1	1.15

Electrical data

Model	P2 [kW]	min ⁻¹	I _{start} [A]		I _N [A]		η _{motor} [%]			Cos φ			Breakdown torque [Nm]
			380 V	400 V	380 V	400 V	1/2	3/4	1/1	1/2	3/4	1/1	
KPL.800.45.8.T.50.9.L	45	720	545.2	517.9	99.1	94.2	87.0	88.8	89.0	60.5	72.5	77.5	1245
KPL.800.45.8.T.50.11.L	45	720	545.2	517.9	99.1	94.2	87.0	88.8	89.0	60.5	72.5	77.5	1245
KPL.800.55.8.T.50.9.L	55	720	654.2	621.5	118.9	113.0	87.5	89.3	89.5	61.5	73.5	78.5	1520
KPL.800.55.8.T.50.11.L	55	720	654.2	621.5	118.9	113.0	87.5	89.3	89.5	61.5	73.5	78.5	1520
KPL.800.55.8.T.50.13.L	55	720	654.2	621.5	118.9	113.0	87.5	89.3	89.5	61.5	73.5	78.5	1520
KPL.800.55.8.T.50.15.L	55	720	654.2	621.5	118.9	113.0	87.5	89.3	89.5	61.5	73.5	78.5	1520
KPL.800.55.8.T.50.17.L	55	720	654.2	621.5	118.9	113.0	87.5	89.3	89.5	61.5	73.5	78.5	1520
KPL.800.75.8.T.50.13.L	75	720	881.5	837.4	160.3	152.3	88.0	89.8	90.0	62.5	74.0	79.0	2073
KPL.800.75.8.T.50.15.L	75	720	881.5	837.4	160.3	152.3	88.0	89.8	90.0	62.5	74.0	79.0	2073
KPL.800.75.8.T.50.17.L	75	720	881.5	837.4	160.3	152.3	88.0	89.8	90.0	62.5	74.0	79.0	2073
KPL.800.75.8.T.50.19.L	75	720	881.5	837.4	160.3	152.3	88.0	89.8	90.0	62.5	74.0	79.0	2073
KPL.800.75.8.T.50.21.L	75	720	881.5	837.4	160.3	152.3	88.0	89.8	90.0	62.5	74.0	79.0	2073
KPL.800.75.8.T.50.23.L	75	720	881.5	837.4	160.3	152.3	88.0	89.8	90.0	62.5	74.0	79.0	2073
KPL.800.90.8.T.50.15.L	90	720	1048.8	996.4	190.7	181.2	88.2	90.0	90.2	64.0	74.5	79.5	2607
KPL.800.90.8.T.50.17.L	90	720	1048.8	996.4	190.7	181.2	88.2	90.0	90.2	64.0	74.5	79.5	2607
KPL.800.90.8.T.50.19.L	90	720	1048.8	996.4	190.7	181.2	88.2	90.0	90.2	64.0	74.5	79.5	2607
KPL.800.90.8.T.50.21.L	90	720	1048.8	996.4	190.7	181.2	88.2	90.0	90.2	64.0	74.5	79.5	2607
KPL.800.90.8.T.50.23.L	90	720	1048.8	996.4	190.7	181.2	88.2	90.0	90.2	64.0	74.5	79.5	2607

8.11 KPL.1000.---.8.T.50.L



TM065018

Pump data

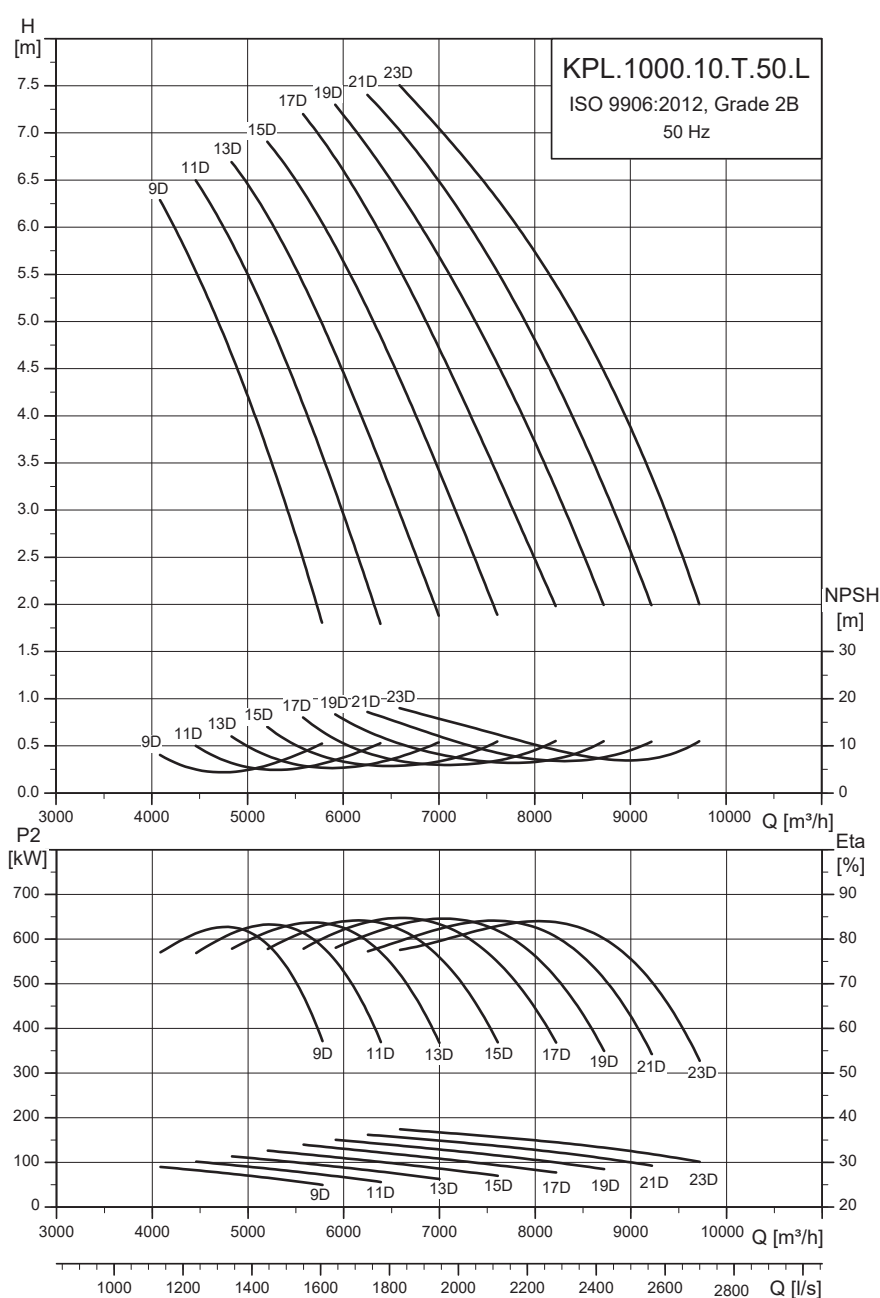
Model	No of poles	Discharge column size [mm]	Propeller no	Propeller diam. [mm]	No of blades	Free passage [mm]	Min. flow rate [m³/h]	Moment of inertia [kgm²]	
								Motor	Propeller
KPL.1000.132.8.T.50.9.L	8	1000	9	700	4	95	6317	39.5	4.37
KPL.1000.132.8.T.50.11.L	8	1000	11	700	4	100	7200	39.5	4.37
KPL.1000.160.8.T.50.9.L	8	1000	9	700	4	95	5328	40.3	4.37
KPL.1000.160.8.T.50.11.L	8	1000	11	700	4	100	6652	40.3	4.37
KPL.1000.160.8.T.50.13.L	8	1000	13	700	4	110	7725	40.3	4.37
KPL.1000.160.8.T.50.15.L	8	1000	15	700	4	120	8590	40.3	4.37
KPL.1000.200.8.T.50.13.L	8	1000	13	700	4	110	6800	46.1	4.37
KPL.1000.200.8.T.50.15.L	8	1000	15	700	4	120	7976	46.1	4.37
KPL.1000.200.8.T.50.17.L	8	1000	17	700	4	130	8945	46.1	4.37
KPL.1000.200.8.T.50.19.L	8	1000	19	700	4	140	9754	46.1	4.37
KPL.1000.250.8.T.50.17.L	8	1000	17	700	4	130	8200	69.9	4.37
KPL.1000.250.8.T.50.19.L	8	1000	19	700	4	140	8900	69.9	4.37

Model	No of poles	Discharge column size [mm]	Propeller no	Propeller diam. [mm]	No of blades	Free passage [mm]	Min. flow rate [m³/h]	Moment of inertia [kgm²]	
								Motor	Propeller
KPL.1000.250.8.T.50.21.L	8	1000	21	700	4	156	9720	69.9	4.37
KPL.1000.300.8.T.50.19.L	8	1000	19	700	4	140	8340	124	4.37
KPL.1000.300.8.T.50.21.L	8	1000	21	700	4	156	8760	124	4.37
KPL.1000.300.8.T.50.23.L	8	1000	23	700	4	160	8760	124	4.37

Electrical data

Model	P2 [kW]	min ⁻¹	I _{start} [A]		I _N [A]		η _{motor} [%]			Cos φ			Breakdown torque [Nm]
			380 V	400 V	380 V	400 V	1/2	3/4	1/1	1/2	3/4	1/1	
KPL.1000.132.8.T.50.9.L	132	720	1567.5	1489.1	270.3	256.7	90.4	90.5	90.5	71.6	79.1	82.0	4119.9
KPL.1000.132.8.T.50.11.L	132	720	1567.5	1489.1	270.3	256.7	90.4	90.5	90.5	71.6	79.1	82.0	4119.9
KPL.1000.160.8.T.50.9.L	160	720	1924.3	1828.1	320.7	304.7	91.8	92.0	92.1	71.9	79.5	82.3	5035.2
KPL.1000.160.8.T.50.11.L	160	720	1924.3	1828.1	320.7	304.7	91.8	92.0	92.1	71.9	79.5	82.3	5035.2
KPL.1000.160.8.T.50.13.L	160	720	1924.3	1828.1	320.7	304.7	91.8	92.0	92.1	71.9	79.5	82.3	5035.2
KPL.1000.160.8.T.50.15.L	160	720	1924.3	1828.1	320.7	304.7	91.8	92.0	92.1	71.9	79.5	82.3	5035.2
KPL.1000.200.8.T.50.13.L	200	720	2295.7	2180.9	395.8	376.0	92.4	92.5	92.5	69.9	77.6	83.0	6622.7
KPL.1000.200.8.T.50.15.L	200	720	2295.7	2180.9	395.8	376.0	92.4	92.5	92.5	69.9	77.6	83.0	6622.7
KPL.1000.200.8.T.50.17.L	200	720	2295.7	2180.9	395.8	376.0	92.4	92.5	92.5	69.9	77.6	83.0	6622.7
KPL.1000.200.8.T.50.19.L	200	720	2295.7	2180.9	395.8	376.0	92.4	92.5	92.5	69.9	77.6	83.0	6622.7
KPL.1000.250.8.T.50.17.L	250	720	2758.1	2620.2	483.9	459.7	92.7	92.8	92.9	70.4	78.9	84.5	7315.5
KPL.1000.250.8.T.50.19.L	250	720	2758.1	2620.2	483.9	459.7	92.7	92.8	92.9	70.4	78.9	84.5	7315.5
KPL.1000.250.8.T.50.21.L	250	720	2758.1	2620.2	483.9	459.7	92.7	92.8	92.9	70.4	78.9	84.5	7315.5
KPL.1000.300.8.T.50.19.L	300	720	3222.1	3061.0	575.4	546.6	93.1	93.2	93.2	71.6	79.3	85.0	8583.8
KPL.1000.300.8.T.50.21.L	300	720	3222.1	3061.0	575.4	546.6	93.1	93.2	93.2	71.6	79.3	85.0	8583.8
KPL.1000.300.8.T.50.23.L	300	720	3222.1	3061.0	575.4	546.6	93.1	93.2	93.2	71.6	79.3	85.0	8583.8

8.12 KPL.1000.---.10.T.50.L



TM065017

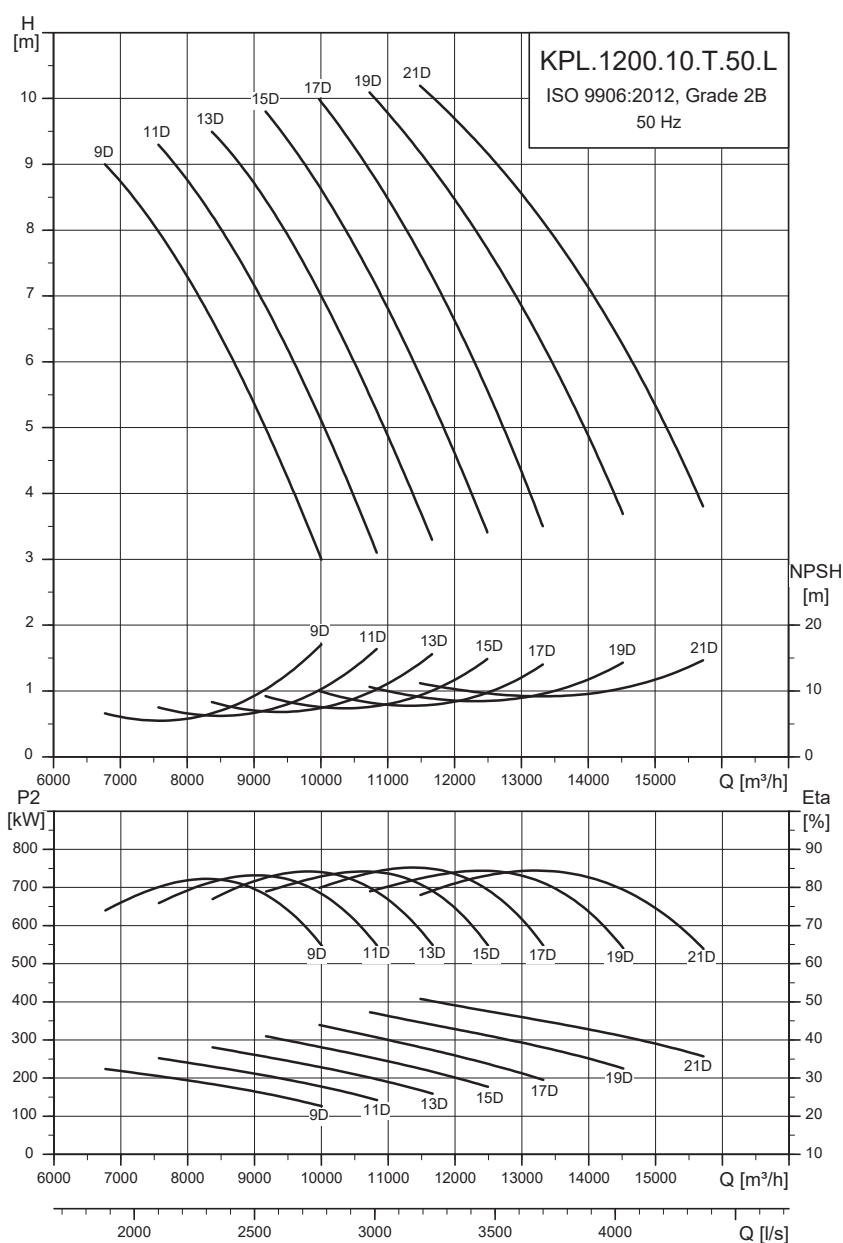
Pump data

Model	No of poles	Discharge column size [mm]	Propeller no	Propeller diam. [mm]	No of blades	Free passage [mm]	Min. flow rate [m³/h]	Moment of inertia [kgm²]	
								Motor	Propeller
KPL.1000.90.10.T.50.9.L	10	1000	9	700	4	95	4086	39.3	4.37
KPL.1000.90.10.T.50.11.L	10	1000	11	700	4	100	5012	39.3	4.37
KPL.1000.90.10.T.50.13.L	10	1000	13	700	4	110	6000	39.3	4.37
KPL.1000.132.10.T.50.13.L	10	1000	13	700	4	110	4833	44	4.37
KPL.1000.132.10.T.50.15.L	10	1000	15	700	4	120	5207	44	4.37
KPL.1000.132.10.T.50.17.L	10	1000	17	700	4	130	5900	44	4.37
KPL.1000.132.10.T.50.19.L	10	1000	19	700	4	140	6800	44	4.37
KPL.1000.160.10.T.50.19.L	10	1000	19	700	4	140	5916	68.8	4.37
KPL.1000.160.10.T.50.21.L	10	1000	21	700	4	156	6252	68.8	4.37
KPL.1000.160.10.T.50.23.L	10	1000	23	700	4	160	7300	68.8	4.37
KPL.1000.200.10.T.50.23.L	10	1000	23	700	4	160	6588	78.8	4.37

Electrical data

Model	P2 [kW]	min ⁻¹	I _{start} [A]		I _N [A]		η _{motor} [%]			Cos φ			Breakdown torque [Nm]
			380 V	400 V	380 V	400 V	1/2	3/4	1/1	1/2	3/4	1/1	
KPL.1000.90.10.T.50.9.L	90	580	944.2	897.0	171.7	163.1	88.7	88.9	89.0	89.3	87.5	89.5	3196.4
KPL.1000.90.10.T.50.11.L	90	580	944.2	897.0	171.7	163.1	88.7	88.9	89.0	89.3	87.5	89.5	3196.4
KPL.1000.90.10.T.50.13.L	90	580	944.2	897.0	171.7	163.1	88.7	88.9	89.0	89.3	87.5	89.5	3196.4
KPL.1000.132.10.T.50.13.L	132	580	1439.0	1367.1	287.8	273.4	90.3	90.4	90.5	60.6	71.6	77.0	4240.6
KPL.1000.132.10.T.50.15.L	132	580	1439.0	1367.1	287.8	273.4	90.3	90.4	90.5	60.6	71.6	77.0	4240.6
KPL.1000.132.10.T.50.17.L	132	580	1439.0	1367.1	287.8	273.4	90.3	90.4	90.5	60.6	71.6	77.0	4240.6
KPL.1000.132.10.T.50.19.L	132	580	1439.0	1367.1	287.8	273.4	90.3	90.4	90.5	60.6	71.6	77.0	4240.6
KPL.1000.160.10.T.50.19.L	160	580	1729.0	1642.5	288.2	273.8	91.1	91.3	91.4	92.3	92.1	92.3	6456.9
KPL.1000.160.10.T.50.21.L	160	580	1729.0	1642.5	288.2	273.8	91.1	91.3	91.4	92.3	92.1	92.3	6456.9
KPL.1000.160.10.T.50.23.L	160	580	1729.0	1642.5	288.2	273.8	91.1	91.3	91.4	92.3	92.1	92.3	6456.9
KPL.1000.200.10.T.50.23.L	200	580	2458.8	2335.8	423.9	402.7	91.7	91.8	91.9	63.4	73.2	78.0	7911.2

8.13 KPL.1200.---.10.T.50.L



TM065016

Pump data

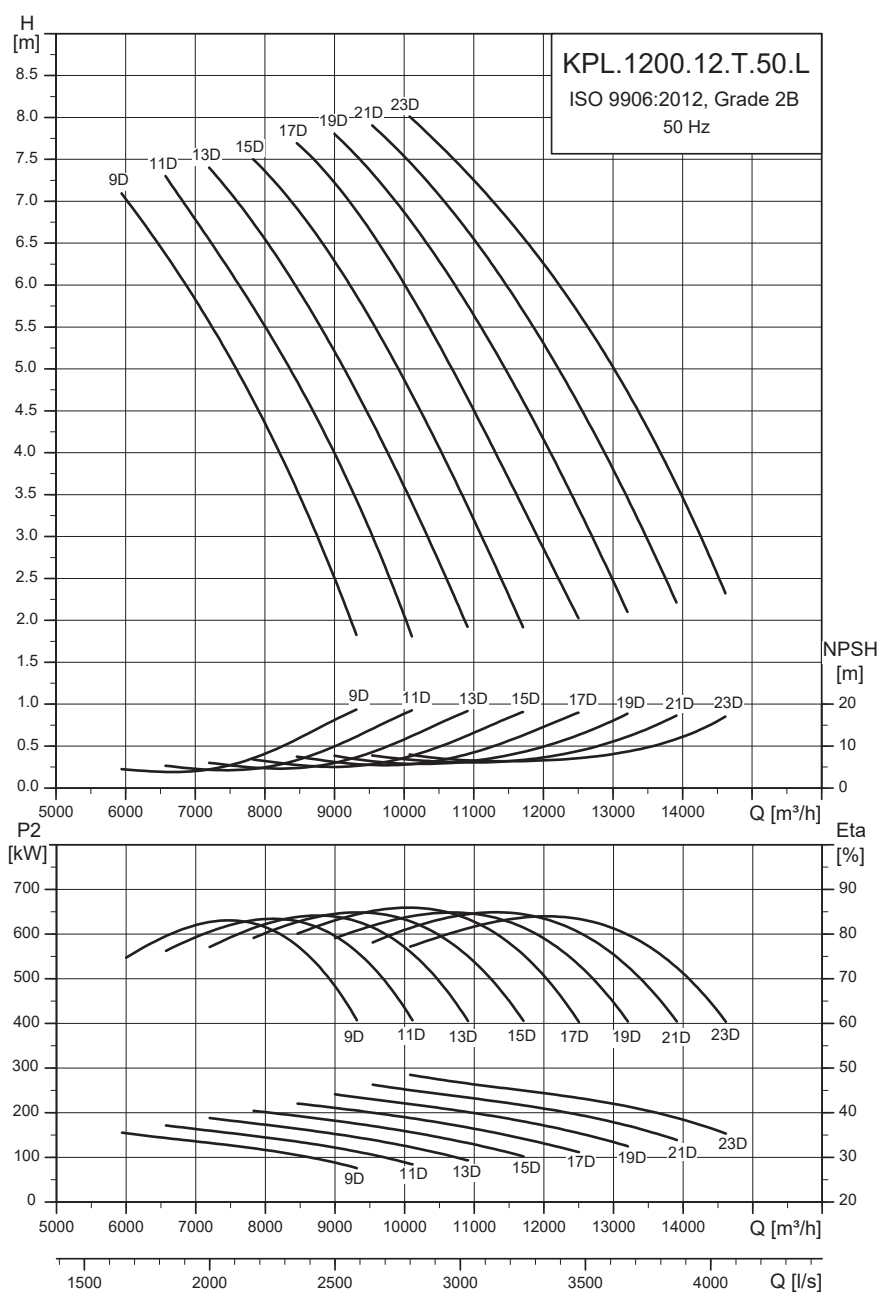
Model	No of poles	Discharge column size [mm]	Propeller no	Propeller diam. [mm]	No of blades	Free passage [mm]	Min. flow rate [m³/h]	Moment of inertia [kgm²]	
								Motor	Propeller
KPL.1200.220.10.T.50.9.L	10	1200	9	860	4	120	6768	76.4	9.83
KPL.1200.220.10.T.50.11.L	10	1200	11	860	4	130	8860	76.4	9.83
KPL.1200.220.10.T.50.13.L	10	1200	13	860	4	140	10080	76.4	9.83
KPL.1200.250.10.T.50.11.L	10	1200	11	860	4	130	7569	83.9	9.83
KPL.1200.250.10.T.50.13.L	10	1200	13	860	4	140	9070	83.9	9.83
KPL.1200.250.10.T.50.15.L	10	1200	15	860	4	150	10835	83.9	9.83
KPL.1200.300.10.T.50.13.L	10	1200	13	860	4	140	8370	142.8	9.83
KPL.1200.300.10.T.50.15.L	10	1200	15	860	4	150	9171	142.8	9.83
KPL.1200.300.10.T.50.17.L	10	1200	17	860	4	160	11140	142.8	9.83
KPL.1200.300.10.T.50.19.L	10	1200	19	860	4	170	12565	142.8	9.83
KPL.1200.350.10.T.50.17.L	10	1200	17	860	4	160	9972	155.9	9.83

Model	No of poles	Discharge column size [mm]	Propeller no	Propeller diam. [mm]	No of blades	Free passage [mm]	Min. flow rate [m³/h]	Moment of inertia [kgm²]	
								Motor	Propeller
KPL.1200.350.10.T.50.19.L	10	1200	19	860	4	170	11375	155.9	9.83
KPL.1200.350.10.T.50.21.L	10	1200	21	860	4	190	13400	155.9	9.83
KPL.1200.400.10.T.50.19.L	10	1200	19	860	4	170	107300	193.5	9.83
KPL.1200.400.10.T.50.21.L	10	1200	21	860	4	190	11484	193.5	9.83

Electrical data

Model	P2 [kW]	min ⁻¹	I _{start} [A]		I _N [A]		η _{motor} [%]			Cos φ			Breakdown torque [Nm]
			380 V	400 V	380 V	400 V	1/2	3/4	1/1	1/2	3/4	1/1	
KPL.1200.220.10.T.50.9.L	220	580	2551.4	2423.9	455.6	432.8	92.3	92.4	92.4	64.1	75.5	79.4	8097.6
KPL.1200.220.10.T.50.11.L	220	580	2551.4	2423.9	455.6	432.8	92.3	92.4	92.4	64.1	75.5	79.4	8097.6
KPL.1200.220.10.T.50.13.L	220	580	2551.4	2423.9	455.6	432.8	92.3	92.4	92.4	64.1	75.5	79.4	8097.6
KPL.1200.250.10.T.50.11.L	250	580	2844.7	2702.5	517.2	491.4	91.5	91.7	91.8	67.3	77.6	80.0	9162.4
KPL.1200.250.10.T.50.13.L	250	580	2844.7	2702.5	517.2	491.4	91.5	91.7	91.8	67.3	77.6	80.0	9162.4
KPL.1200.250.10.T.50.15.L	250	580	2844.7	2702.5	517.2	491.4	91.5	91.7	91.8	67.3	77.6	80.0	9162.4
KPL.1200.300.10.T.50.13.L	300	580	3364.2	3196.0	611.7	581.1	91.8	91.9	92.0	68.1	78.4	81.0	10800.2
KPL.1200.300.10.T.50.15.L	300	580	3364.2	3196.0	611.7	581.1	91.8	91.9	92.0	68.1	78.4	81.0	10800.2
KPL.1200.300.10.T.50.17.L	300	580	3364.2	3196.0	611.7	581.1	91.8	91.9	92.0	68.1	78.4	81.0	10800.2
KPL.1200.300.10.T.50.19.L	300	580	3364.2	3196.0	611.7	581.1	91.8	91.9	92.0	68.1	78.4	81.0	10800.2
KPL.1200.350.10.T.50.17.L	350	580	3889.3	3694.8	707.1	671.8	92.4	92.5	92.5	68.5	78.8	81.3	12317.8
KPL.1200.350.10.T.50.19.L	350	580	3889.3	3694.8	707.1	671.8	92.4	92.5	92.5	68.5	78.8	81.3	12317.8
KPL.1200.350.10.T.50.21.L	350	580	3889.3	3694.8	707.1	671.8	92.4	92.5	92.5	68.5	78.8	81.3	12317.8
KPL.1200.400.10.T.50.19.L	400	580	4424.4	4203.2	804.4	764.2	92.6	92.7	92.7	78.9	68.7	81.5	13884.3
KPL.1200.400.10.T.50.21.L	400	580	4424.4	4203.2	804.4	764.2	92.6	92.7	92.7	78.9	68.7	81.5	13884.3

8.14 KPL.1200.---.12.T.50.L



TM065015

Pump data

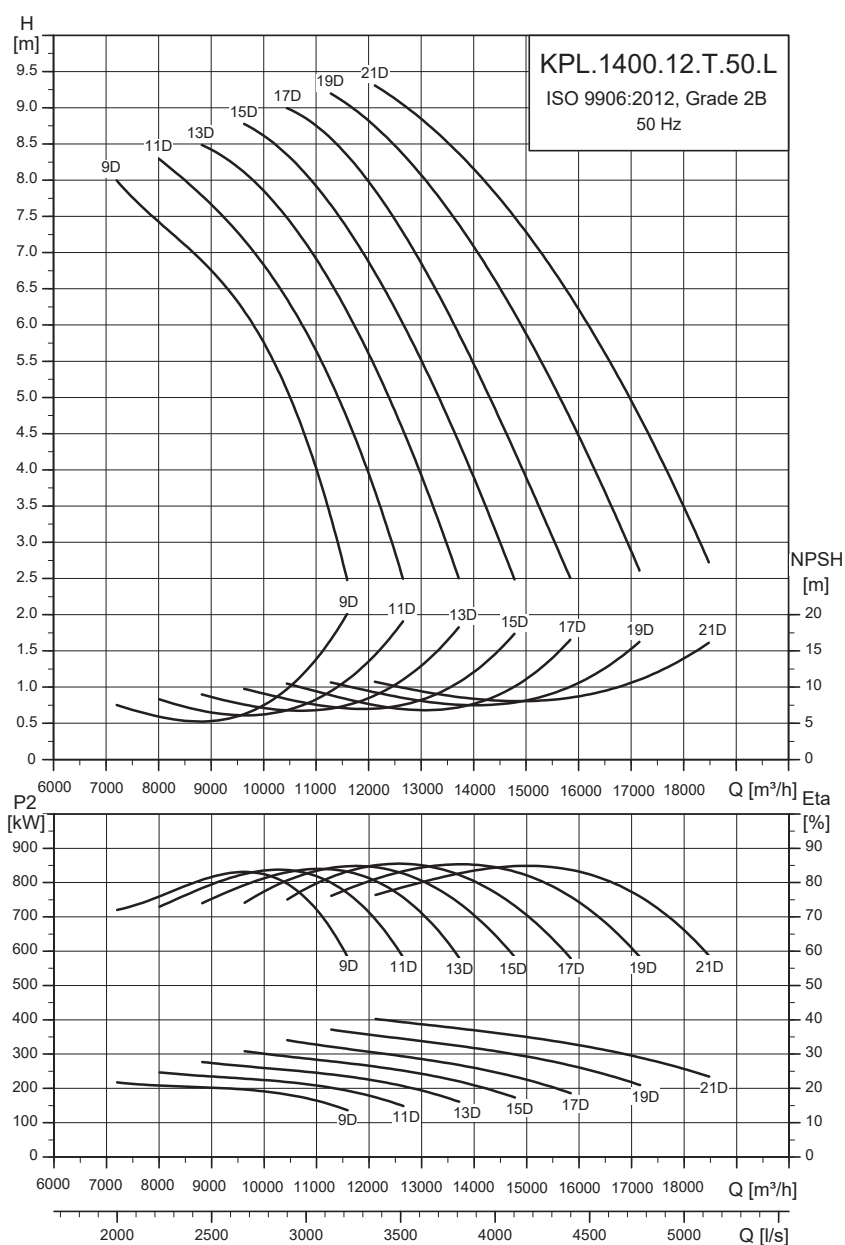
Model	No of poles	Discharge column size [mm]	Propeller no	Propeller diam. [mm]	No of blades	Free passage [mm]	Min. flow rate [m³/h]	Moment of inertia [kgm²]	
								Motor	Propeller
KPL.1200.160.12.T.50.9.L	12	1200	9	860	4	120	5940	79.3	9.83
KPL.1200.160.12.T.50.11.L	12	1200	11	860	4	130	6570	79.3	9.83
KPL.1200.160.12.T.50.13.L	12	1200	13	860	4	140	8450	79.3	9.83
KPL.1200.160.12.T.50.15.L	12	1200	15	860	4	150	9730	79.3	9.83
KPL.1200.200.12.T.50.13.L	12	1200	13	860	4	140	7200	116.9	9.83
KPL.1200.200.12.T.50.15.L	12	1200	15	860	4	150	7830	116.9	9.83
KPL.1200.200.12.T.50.17.L	12	1200	17	860	4	160	9180	116.9	9.83
KPL.1200.200.12.T.50.19.L	12	1200	19	860	4	170	10700	116.9	9.83
KPL.1200.250.12.T.50.17.L	12	1200	17	860	4	160	8460	130.6	9.83
KPL.1200.250.12.T.50.19.L	12	1200	19	860	4	170	9000	130.6	9.83

Model	No of poles	Discharge column size [mm]	Propeller no	Propeller diam. [mm]	No of blades	Free passage [mm]	Min. flow rate [m³/h]	Moment of inertia [kgm²]	
								Motor	Propeller
KPL.1200.250.12.T.50.21.L	12	1200	21	860	4	190	10380	130.6	9.83
KPL.1200.250.12.T.50.23.L	12	1200	23	860	4	200	11200	130.6	9.83
KPL.1200.300.12.T.50.21.L	12	1200	21	860	4	190	9540	146.4	9.83
KPL.1200.300.12.T.50.23.L	12	1200	23	860	4	200	10080	146.4	9.83

Electrical data

Model	P2 [kW]	min ⁻¹	I _{start} [A]		I _N [A]		η _{motor} [%]			Cos φ			Breakdown torque [Nm]
			380 V	400 V	380 V	400 V	1/2	3/4	1/1	1/2	3/4	1/1	
KPL.1200.160.12.T.50.9.L	160	485	2111.4	2005.8	351.9	334.3	91.4	91.5	91.5	60.6	70.6	75.5	8450.3
KPL.1200.160.12.T.50.11.L	160	485	2111.4	2005.8	351.9	334.3	91.4	91.5	91.5	60.6	70.6	75.5	8450.3
KPL.1200.160.12.T.50.13.L	160	485	2111.4	2005.8	351.9	334.3	91.4	91.5	91.5	60.6	70.6	75.5	8450.3
KPL.1200.160.12.T.50.15.L	160	485	2111.4	2005.8	351.9	334.3	91.4	91.5	91.5	60.6	70.6	75.5	8450.3
KPL.1200.200.12.T.50.13.L	200	485	2523.5	2397.3	435.1	413.3	91.8	91.9	91.9	63.2	74.7	76.0	8764.8
KPL.1200.200.12.T.50.15.L	200	485	2523.5	2397.3	435.1	413.3	91.8	91.9	91.9	63.2	74.7	76.0	8764.8
KPL.1200.200.12.T.50.17.L	200	485	2523.5	2397.3	435.1	413.3	91.8	91.9	91.9	63.2	74.7	76.0	8764.8
KPL.1200.200.12.T.50.19.L	200	485	2523.5	2397.3	435.1	413.3	91.8	91.9	91.9	63.2	74.7	76.0	8764.8
KPL.1200.250.12.T.50.17.L	250	485	3002.7	2852.6	536.2	509.4	91.8	91.5	92.0	75.5	64.2	77.0	11320.8
KPL.1200.250.12.T.50.19.L	250	485	3002.7	2852.6	536.2	509.4	91.8	91.5	92.0	75.5	64.2	77.0	11320.8
KPL.1200.250.12.T.50.21.L	250	485	3002.7	2852.6	536.2	509.4	91.8	91.5	92.0	75.5	64.2	77.0	11320.8
KPL.1200.250.12.T.50.23.L	250	485	3002.7	2852.6	536.2	509.4	91.8	91.5	92.0	75.5	64.2	77.0	11320.8
KPL.1200.300.12.T.50.21.L	300	485	3486.0	3311.7	633.8	602.1	92.1	92.2	92.2	65.2	76.5	78.0	12511.7
KPL.1200.300.12.T.50.23.L	300	485	3486.0	3311.7	633.8	602.1	92.1	92.2	92.2	65.2	76.5	78.0	12511.7

8.15 KPL.1400.---.12.T.50.L



TM065014

Pump data

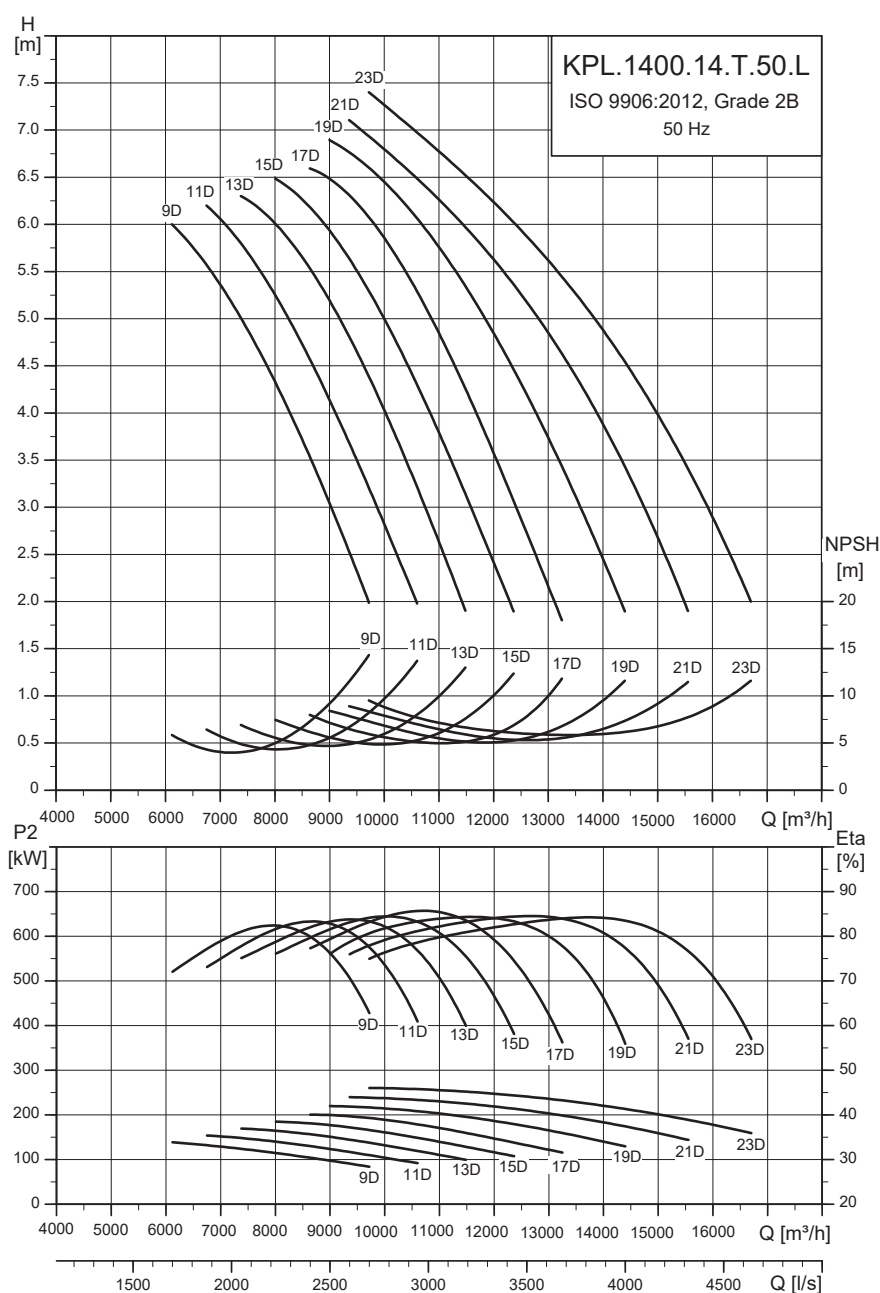
Model	No of poles	Discharge column size [mm]	Propeller no	Propeller diam. [mm]	No of blades	Free passage [mm]	Min. flow rate [m³/h]	Moment of inertia [kgm²]	
								Motor	Propeller
KPL.1400.220.12.T.50.9.L	12	1400	9	950	4	135	7200	137.6	15.3
KPL.1400.220.12.T.50.11.L	12	1400	11	950	4	145	10170	137.6	15.3
KPL.1400.250.12.T.50.11.L	12	1400	11	950	4	145	8010	130.6	15.3
KPL.1400.250.12.T.50.13.L	12	1400	13	950	4	160	10800	130.6	15.3
KPL.1400.300.12.T.50.13.L	12	1400	13	950	4	160	8820	146.4	15.3
KPL.1400.300.12.T.50.15.L	12	1400	15	950	4	170	9630	146.4	15.3
KPL.1400.300.12.T.50.17.L	12	1400	17	950	4	180	12060	146.4	15.3
KPL.1400.300.12.T.50.19.L	12	1400	19	950	4	190	14890	146.4	15.3
KPL.1400.350.12.T.50.15.L	12	1400	15	950	4	170	9630	244.9	15.3
KPL.1400.350.12.T.50.17.L	12	1400	17	950	4	180	10440	244.9	15.3
KPL.1400.350.12.T.50.19.L	12	1400	19	950	4	190	12300	244.9	15.3

Model	No of poles	Discharge column size [mm]	Propeller no	Propeller diam. [mm]	No of blades	Free passage [mm]	Min. flow rate [m³/h]	Moment of inertia [kgm²]	
								Motor	Propeller
KPL.1400.350.12.T.50.21.L	12	1400	21	950	4	205	14700	244.9	15.3
KPL.1400.400.12.T.50.17.L	12	1400	17	950	4	180	10440	289.4	15.3
KPL.1400.400.12.T.50.19.L	12	1400	19	950	4	190	11280	289.4	15.3
KPL.1400.400.12.T.50.21.L	12	1400	21	950	4	205	12120	289.4	15.3

Electrical data

Model	P2 [kW]	min ⁻¹	I _{start} [A]		I _N [A]		η _{motor} [%]			Cos φ			Breakdown torque [Nm]
			380 V	400 V	380 V	400 V	1/2	3/4	1/1	1/2	3/4	1/1	
KPL.1400.220.12.T.50.9.L	220	485	2632.2	2500.6	478.6	454.7	91.8	91.9	91.9	63.2	74.7	76.0	9641.9
KPL.1400.220.12.T.50.11.L	220	485	2632.2	2500.6	478.6	454.7	91.8	91.9	91.9	63.2	74.7	76.0	9641.9
KPL.1400.250.12.T.50.11.L	250	485	3002.7	2852.6	536.2	509.4	91.8	91.5	92.0	75.5	64.2	77.0	11320.8
KPL.1400.250.12.T.50.13.L	250	485	3002.7	2852.6	536.2	509.4	91.8	91.5	92.0	75.5	64.2	77.0	11320.8
KPL.1400.300.12.T.50.13.L	300	485	3486.0	3311.7	633.8	602.1	92.1	92.2	92.2	65.2	76.5	78.0	12511.7
KPL.1400.300.12.T.50.15.L	300	485	3486.0	3311.7	633.8	602.1	92.1	92.2	92.2	65.2	76.5	78.0	12511.7
KPL.1400.300.12.T.50.17.L	300	485	3486.0	3311.7	633.8	602.1	92.1	92.2	92.2	65.2	76.5	78.0	12511.7
KPL.1400.300.12.T.50.19.L	300	485	3486.0	3311.7	633.8	602.1	92.1	92.2	92.2	65.2	76.5	78.0	12511.7
KPL.1400.350.12.T.50.15.L	350	485	4101.2	3896.2	732.4	695.7	92.4	92.5	92.5	65.4	74.9	78.5	15204.3
KPL.1400.350.12.T.50.17.L	350	485	4101.2	3896.2	732.4	695.7	92.4	92.5	92.5	65.4	74.9	78.5	15204.3
KPL.1400.350.12.T.50.19.L	350	485	4101.2	3896.2	732.4	695.7	92.4	92.5	92.5	65.4	74.9	78.5	15204.3
KPL.1400.350.12.T.50.21.L	350	485	4101.2	3896.2	732.4	695.7	92.4	92.5	92.5	65.4	74.9	78.5	15204.3
KPL.1400.400.12.T.50.17.L	400	485	4580.9	4351.9	832.9	791.3	92.5	92.6	92.6	65.7	75.2	78.8	17219.8
KPL.1400.400.12.T.50.19.L	400	485	4580.9	4351.9	832.9	791.3	92.5	92.6	92.6	65.7	75.2	78.8	17219.8
KPL.1400.400.12.T.50.21.L	400	485	4580.9	4351.9	832.9	791.3	92.5	92.6	92.6	65.7	75.2	78.8	17219.8

8.16 KPL.1400.---.14.T.50.L



TM065013

Pump data

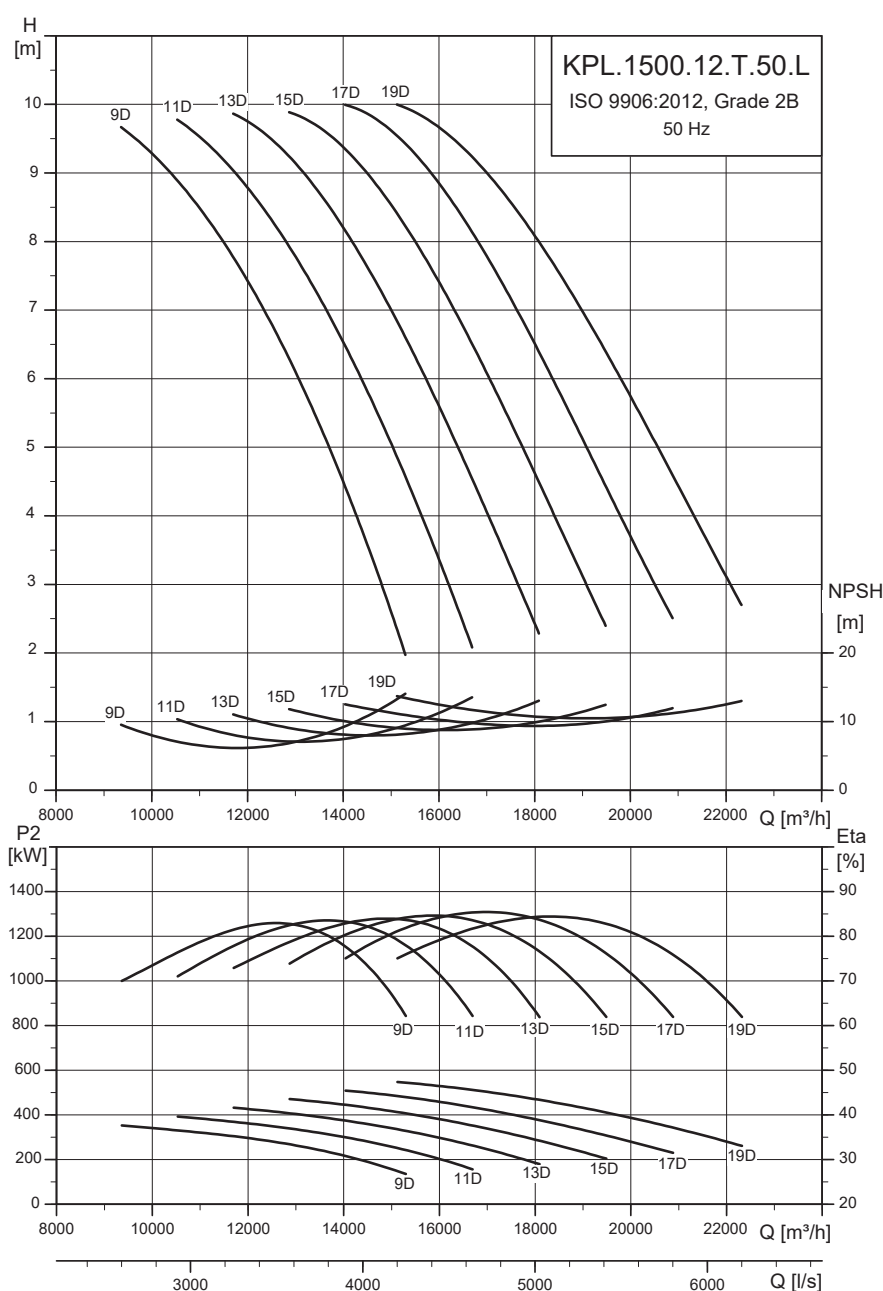
Model	No of poles	Discharge column size [mm]	Propeller no	Propeller diam. [mm]	No of blades	Free passage [mm]	Min. flow rate [m³/h]	Moment of inertia [kgm²]	
								Motor	Propeller
KPL.1400.160.14.T.50.9.L	14	1400	9	950	4	135	6120	132.5	15.3
KPL.1400.160.14.T.50.11.L	14	1400	11	950	4	145	6750	132.5	15.3
KPL.1400.160.14.T.50.13.L	14	1400	13	950	4	160	8170	132.5	15.3
KPL.1400.200.14.T.50.13.L	14	1400	13	950	4	160	7380	140.4	15.3
KPL.1400.200.14.T.50.15.L	14	1400	15	950	4	170	8010	140.4	15.3
KPL.1400.200.14.T.50.17.L	14	1400	17	950	4	180	8640	140.4	15.3
KPL.1400.200.14.T.50.19.L	14	1400	19	950	4	190	11087	140.4	15.3
KPL.1400.250.14.T.50.17.L	14	1400	17	950	4	180	8640	172.3	15.3
KPL.1400.250.14.T.50.19.L	14	1400	19	950	4	190	9000	172.3	15.3

Model	No of poles	Discharge column size [mm]	Propeller no	Propeller diam. [mm]	No of blades	Free passage [mm]	Min. flow rate [m³/h]	Moment of inertia [kgm²]	
								Motor	Propeller
KPL.1400.250.14.T.50.21.L	14	1400	21	950	4	205	9360	172.3	15.3
KPL.1400.250.14.T.50.23.L	14	1400	23	950	4	220	11158	172.3	15.3
KPL.1400.300.14.T.50.21.L	14	1400	21	950	4	205	9360	253.6	15.3
KPL.1400.300.14.T.50.23.L	14	1400	23	950	4	220	9720	253.6	15.3

Electrical data

Model	P2 [kW]	min ⁻¹	I _{start} [A]		I _N [A]		η _{motor} [%]			Cos φ			Breakdown torque [Nm]
			380 V	400 V	380 V	400 V	1/2	3/4	1/1	1/2	3/4	1/1	
KPL.1400.160.14.T.50.9.L	160	410	2141.6	2034.5	356.9	339.1	91.1	91.2	91.3	56.5	69.2	74.6	8184.2
KPL.1400.160.14.T.50.11.L	160	410	2141.6	2034.5	356.9	339.1	91.1	91.2	91.3	56.5	69.2	74.6	8184.2
KPL.1400.160.14.T.50.13.L	160	410	2141.6	2034.5	356.9	339.1	91.1	91.2	91.3	56.5	69.2	74.6	8184.2
KPL.1400.200.14.T.50.13.L	200	410	2452.7	2330.0	445.9	423.6	90.9	91.0	91.1	58.9	71.2	74.8	10855.7
KPL.1400.200.14.T.50.15.L	200	410	2452.7	2330.0	445.9	423.6	90.9	91.0	91.1	58.9	71.2	74.8	10855.7
KPL.1400.200.14.T.50.17.L	200	410	2452.7	2330.0	445.9	423.6	90.9	91.0	91.1	58.9	71.2	74.8	10855.7
KPL.1400.200.14.T.50.19.L	200	410	2452.7	2330.0	445.9	423.6	90.9	91.0	91.1	58.9	71.2	74.8	10855.7
KPL.1400.250.14.T.50.17.L	250	410	3048.4	2896.0	554.2	526.5	91.4	91.5	91.5	60.5	69.9	74.9	12875
KPL.1400.250.14.T.50.19.L	250	410	3048.4	2896.0	554.2	526.5	91.4	91.5	91.5	60.5	69.9	74.9	12875
KPL.1400.250.14.T.50.21.L	250	410	3048.4	2896.0	554.2	526.5	91.4	91.5	91.5	60.5	69.9	74.9	12875
KPL.1400.250.14.T.50.23.L	250	410	3048.4	2896.0	554.2	526.5	91.4	91.5	91.5	60.5	69.9	74.9	12875
KPL.1400.300.14.T.50.21.L	300	410	3257.4	3094.5	651.5	618.9	91.6	91.5	91.7	63.5	71.8	76.3	14388.8
KPL.1400.300.14.T.50.23.L	300	410	3257.4	3094.5	651.5	618.9	91.6	91.5	91.7	63.5	71.8	76.3	14388.8

8.17 KPL.1500.---.12.T.50.L



TM065012

Pump data

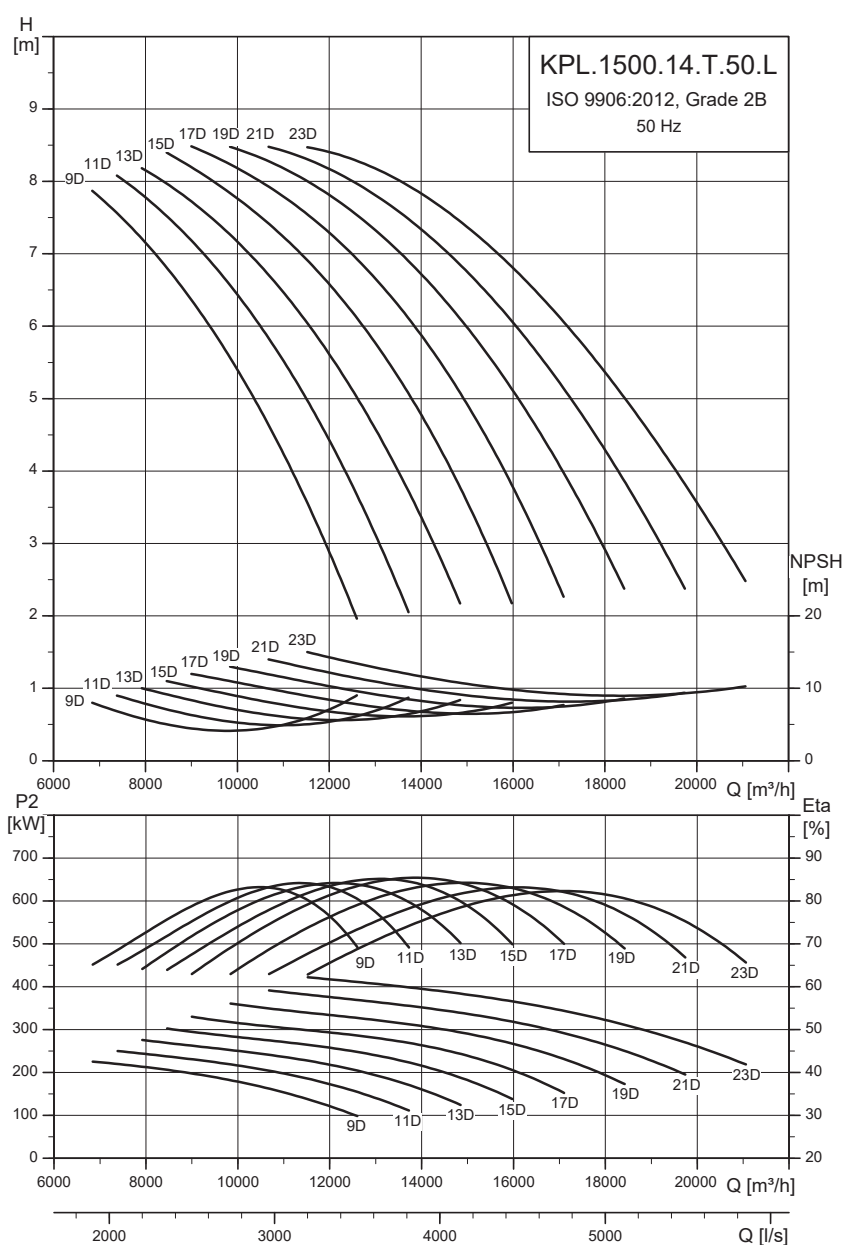
Model	No of poles	Discharge column size [mm]	Propeller no	Propeller diam. [mm]	No of blades	Free passage [mm]	Min. flow rate [m³/h]	Moment of inertia [kgm²]	
								Motor	Propeller
KPL.1500.350.12.T.50.9.L	12	1500	9	1060	4	155	9360	244.9	15.3
KPL.1500.350.12.T.50.11.L	12	1500	11	1060	4	165	12500	244.9	15.3
KPL.1500.350.12.T.50.13.L	12	1500	13	1060	4	180	14812	244.9	15.3
KPL.1500.350.12.T.50.15.L	12	1500	15	1060	4	195	16500	244.9	15.3
KPL.1500.400.12.T.50.9.L	12	1500	9	1060	4	155	9360	289.4	15.3
KPL.1500.400.12.T.50.11.L	12	1500	11	1060	4	165	10528	289.4	15.3
KPL.1500.400.12.T.50.13.L	12	1500	13	1060	4	180	12796	289.4	15.3
KPL.1500.400.12.T.50.15.L	12	1500	15	1060	4	195	15500	289.4	15.3
KPL.1500.400.12.T.50.17.L	12	1500	17	1060	4	205	17700	289.4	15.3
KPL.1500.450.12.T.50.13.L	12	1500	13	1060	4	180	11700	325.6	15.3
KPL.1500.450.12.T.50.15.L	12	1500	15	1060	4	195	14047	325.6	15.3
KPL.1500.450.12.T.50.17.L	12	1500	17	1060	4	205	16380	325.6	15.3

Model	No of poles	Discharge column size [mm]	Propeller no	Propeller diam. [mm]	No of blades	Free passage [mm]	Min. flow rate [m³/h]	Moment of inertia [kgm²]	
								Motor	Propeller
KPL.1500.450.12.T.50.19.L	12	1500	19	1060	4	215	18400	325.6	15.3
KPL.1500.500.12.T.50.15.L	12	1500	15	1060	4	195	12868	361.75	15.3
KPL.1500.500.12.T.50.17.L	12	1500	17	1060	4	205	14040	361.75	15.3
KPL.1500.500.12.T.50.19.L	12	1500	19	1060	4	215	16700	361.75	15.3

Electrical data

Model	P2 [kW]	min ⁻¹	I _{start} [A]		I _N [A]		η _{motor} [%]			Cos φ			Breakdown torque [Nm]
			380 V	400 V	380 V	400 V	1/2	3/4	1/1	1/2	3/4	1/1	
KPL.1500.350.12.T.50.9.L	350	485	4101.2	3896.2	732.4	695.7	92.4	92.5	92.5	65.4	74.9	78.5	15204.3
KPL.1500.350.12.T.50.11.L	350	485	4101.2	3896.2	732.4	695.7	92.4	92.5	92.5	65.4	74.9	78.5	15204.3
KPL.1500.350.12.T.50.13.L	350	485	4101.2	3896.2	732.4	695.7	92.4	92.5	92.5	65.4	74.9	78.5	15204.3
KPL.1500.350.12.T.50.15.L	350	485	4101.2	3896.2	732.4	695.7	92.4	92.5	92.5	65.4	74.9	78.5	15204.3
KPL.1500.400.12.T.50.9.L	400	485	4580.9	4351.9	832.9	791.3	92.5	92.6	92.6	65.7	75.2	78.8	17219.8
KPL.1500.400.12.T.50.11.L	400	485	4580.9	4351.9	832.9	791.3	92.5	92.6	92.6	65.7	75.2	78.8	17219.8
KPL.1500.400.12.T.50.13.L	400	485	4580.9	4351.9	832.9	791.3	92.5	92.6	92.6	65.7	75.2	78.8	17219.8
KPL.1500.400.12.T.50.15.L	400	485	4580.9	4351.9	832.9	791.3	92.5	92.6	92.6	65.7	75.2	78.8	17219.8
KPL.1500.400.12.T.50.17.L	400	485	4580.9	4351.9	832.9	791.3	92.5	92.6	92.6	65.7	75.2	78.8	17219.8
KPL.1500.450.12.T.50.13.L	450	485	4680.0	4446.0	936.0	889.2	92.5	92.7	92.7	65.9	75.2	78.8	19200.8
KPL.1500.450.12.T.50.15.L	450	485	4680.0	4446.0	936.0	889.2	92.5	92.7	92.7	65.9	75.2	78.8	19200.8
KPL.1500.450.12.T.50.17.L	450	485	4680.0	4446.0	936.0	889.2	92.5	92.7	92.7	65.9	75.2	78.8	19200.8
KPL.1500.450.12.T.50.19.L	450	485	4680.0	4446.0	936.0	889.2	92.5	92.7	92.7	65.9	75.2	78.8	19200.8
KPL.1500.500.12.T.50.15.L	500	485	5700.4	5415.4	1036.4	984.6	92.7	92.8	92.9	70.1	75.4	78.9	21334.2
KPL.1500.500.12.T.50.17.L	500	485	5700.4	5415.4	1036.4	984.6	92.7	92.8	92.9	70.1	75.4	78.9	21334.2
KPL.1500.500.12.T.50.19.L	500	485	5700.4	5415.4	1036.4	984.6	92.7	92.8	92.9	70.1	75.4	78.9	21334.2

8.18 KPL.1500.---.14.T.50.L



TM065011

Pump data

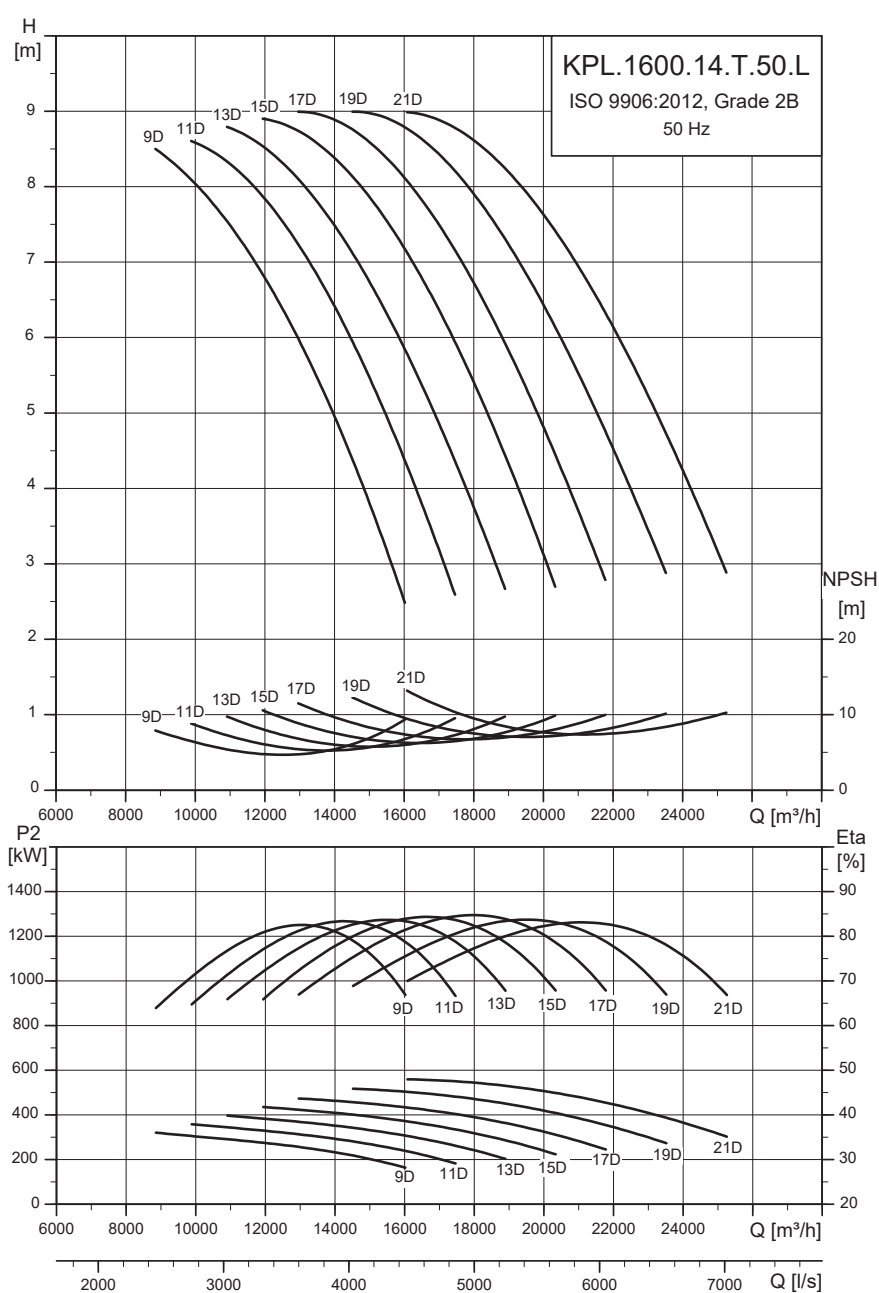
Model	No of poles	Discharge column size [mm]	Propeller no	Propeller diam. [mm]	No of blades	Free passage [mm]	Min. flow rate [m³/h]	Moment of inertia [kgm²]	
								Motor	Propeller
KPL.1500.220.14.T.50.9.L	14	1500	9	1060	4	155	6840	154.44	15.3
KPL.1500.220.14.T.50.11.L	14	1500	11	1060	4	165	9500	154.44	15.3
KPL.1500.220.14.T.50.13.L	14	1500	13	1060	4	180	12600	154.44	15.3
KPL.1500.250.14.T.50.9.L	14	1500	9	1060	4	155	6840	172.3	15.3
KPL.1500.250.14.T.50.11.L	14	1500	11	1060	4	165	7380	172.3	15.3
KPL.1500.250.14.T.50.13.L	14	1500	13	1060	4	180	10170	172.3	15.3
KPL.1500.250.14.T.50.15.L	14	1500	15	1060	4	195	12500	172.3	15.3
KPL.1500.300.14.T.50.13.L	14	1500	13	1060	4	180	7920	253.6	15.3
KPL.1500.300.14.T.50.15.L	14	1500	15	1060	4	195	8460	253.6	15.3
KPL.1500.300.14.T.50.17.L	14	1500	17	1060	4	205	11520	253.6	15.3
KPL.1500.300.14.T.50.19.L	14	1500	19	1060	4	215	14200	253.6	15.3
KPL.1500.375.14.T.50.17.L	14	1500	17	1060	4	205	9000	317	15.3
KPL.1500.375.14.T.50.19.L	14	1500	19	1060	4	215	9840	317	15.3

Model	No of poles	Discharge column size [mm]	Propeller no	Propeller diam. [mm]	No of blades	Free passage [mm]	Min. flow rate [m³/h]	Moment of inertia [kgm²]	
								Motor	Propeller
KPL.1500.375.14.T.50.21.L	14	1500	21	1060	4	230	12360	317	15.3
KPL.1500.375.14.T.50.23.L	14	1500	23	1060	4	250	15000	317	15.3
KPL.1500.450.14.T.50.21.L	14	1500	21	1060	4	230	10680	380.4	15.3
KPL.1500.450.14.T.50.23.L	14	1500	23	1060	4	250	11518	380.4	15.3

Electrical data

Model	P2 [kW]	min ⁻¹	I _{start} [A]		I _N [A]		η _{motor} [%]			Cos φ			Breakdown torque [Nm]
			380 V	400 V	380 V	400 V	1/2	3/4	1/1	1/2	3/4	1/1	
KPL.1500.220.14.T.50.9.L	220	410	2688.4	2554.0	488.8	464.4	91.0	91.3	91.3	55.8	69.4	74.9	11104.2
KPL.1500.220.14.T.50.11.L	220	410	2688.4	2554.0	488.8	464.4	91.0	91.3	91.3	55.8	69.4	74.9	11104.2
KPL.1500.220.14.T.50.13.L	220	410	2688.4	2554.0	488.8	464.4	91.0	91.3	91.3	55.8	69.4	74.9	11104.2
KPL.1500.250.14.T.50.9.L	250	410	3048.4	2896.0	554.2	526.5	91.4	91.5	91.5	60.5	69.9	74.9	12875
KPL.1500.250.14.T.50.11.L	250	410	3048.4	2896.0	554.2	526.5	91.4	91.5	91.5	60.5	69.9	74.9	12875
KPL.1500.250.14.T.50.13.L	250	410	3048.4	2896.0	554.2	526.5	91.4	91.5	91.5	60.5	69.9	74.9	12875
KPL.1500.250.14.T.50.15.L	250	410	3048.4	2896.0	554.2	526.5	91.4	91.5	91.5	60.5	69.9	74.9	12875
KPL.1500.300.14.T.50.13.L	300	410	3257.4	3094.5	651.5	618.9	91.6	91.5	91.7	63.5	71.8	76.3	14388.8
KPL.1500.300.14.T.50.15.L	300	410	3257.4	3094.5	651.5	618.9	91.6	91.5	91.7	63.5	71.8	76.3	14388.8
KPL.1500.300.14.T.50.17.L	300	410	3257.4	3094.5	651.5	618.9	91.6	91.5	91.7	63.5	71.8	76.3	14388.8
KPL.1500.300.14.T.50.19.L	300	410	3257.4	3094.5	651.5	618.9	91.6	91.5	91.7	63.5	71.8	76.3	14388.8
KPL.1500.375.14.T.50.17.L	375	410	3990.3	3790.8	798.1	758.2	92.3	92.4	92.6	59.9	71.0	77.1	17985.5
KPL.1500.375.14.T.50.19.L	375	410	3990.3	3790.8	798.1	758.2	92.3	92.4	92.6	59.9	71.0	77.1	17985.5
KPL.1500.375.14.T.50.21.L	375	410	3990.3	3790.8	798.1	758.2	92.3	92.4	92.6	59.9	71.0	77.1	17985.5
KPL.1500.375.14.T.50.23.L	375	410	3990.3	3790.8	798.1	758.2	92.3	92.4	92.6	59.9	71.0	77.1	17985.5
KPL.1500.450.14.T.50.21.L	450	410	4745.3	4508.0	949.1	901.6	92.5	92.6	92.6	59.8	71.7	77.8	21582.6
KPL.1500.450.14.T.50.23.L	450	410	4745.3	4508.0	949.1	901.6	92.5	92.6	92.6	59.8	71.7	77.8	21582.6

8.19 KPL.1600.---.14.T.50.L



TM065010

Pump data

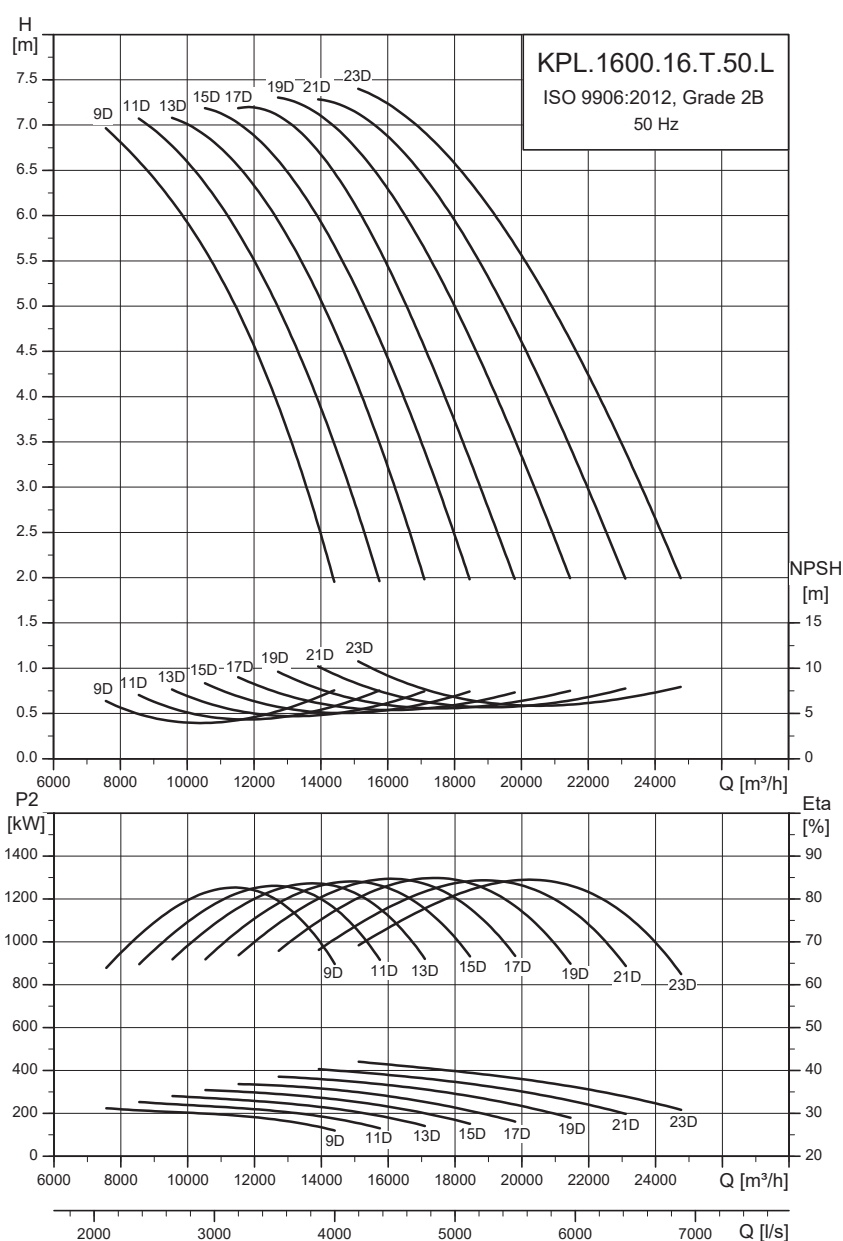
Model	No of poles	Discharge column size [mm]	Propeller no	Propeller diam. [mm]	No of blades	Free passage [mm]	Min. flow rate [m³/h]	Moment of inertia [kgm²]	
								Motor	Propeller
KPL.1600.350.14.T.50.9.L	14	1600	9	1150	4	165	8855	295.9	37.13
KPL.1600.350.14.T.50.11.L	14	1600	11	1150	4	180	9880	295.9	37.13
KPL.1600.350.14.T.50.13.L	14	1600	13	1150	4	195	13950	295.9	37.13
KPL.1600.350.14.T.50.15.L	14	1600	15	1150	4	210	16522	295.9	37.13
KPL.1600.400.14.T.50.11.L	14	1600	11	1150	4	180	9880	338.13	37.13
KPL.1600.400.14.T.50.13.L	14	1600	13	1150	4	195	10910	338.13	37.13
KPL.1600.400.14.T.50.15.L	14	1600	15	1150	4	210	14500	338.13	37.13
KPL.1600.400.14.T.50.17.L	14	1600	17	1150	4	225	17710	338.13	37.13
KPL.1600.400.14.T.50.19.L	14	1600	19	1150	4	240	20313	338.13	37.13
KPL.1600.500.14.T.50.15.L	14	1600	15	1150	4	210	11935	422.7	37.13
KPL.1600.500.14.T.50.17.L	14	1600	17	1150	4	225	12960	422.7	37.13

Model	No of poles	Discharge column size [mm]	Propeller no	Propeller diam. [mm]	No of blades	Free passage [mm]	Min. flow rate [m³/h]	Moment of inertia [kgm²]	
								Motor	Propeller
KPL.1600.500.14.T.50.19.L	14	1600	19	1150	4	240	16558	422.7	37.13
KPL.1600.500.14.T.50.21.L	14	1600	21	1150	4	255	19800	422.7	37.13
KPL.1600.550.14.T.50.19.L	14	1600	19	1150	4	240	14520	464.93	37.13
KPL.1600.550.14.T.50.21.L	14	1600	21	1150	4	255	17000	464.93	37.13

Electrical data

Model	P2 [kW]	min ⁻¹	I _{start} [A]		I _N [A]		η _{motor} [%]			Cos φ			Breakdown torque [Nm]
			380 V	400 V	380 V	400 V	1/2	3/4	1/1	1/2	3/4	1/1	
KPL.1600.350.14.T.50.9.L	350	410	3737.2	3550.3	747.4	710.1	92.1	92.3	92.4	58.4	71.3	77.0	16786.5
KPL.1600.350.14.T.50.11.L	350	410	3737.2	3550.3	747.4	710.1	92.1	92.3	92.4	58.4	71.3	77.0	16786.5
KPL.1600.350.14.T.50.13.L	350	410	3737.2	3550.3	747.4	710.1	92.1	92.3	92.4	58.4	71.3	77.0	16786.5
KPL.1600.350.14.T.50.15.L	350	410	3737.2	3550.3	747.4	710.1	92.1	92.3	92.4	58.4	71.3	77.0	16786.5
KPL.1600.400.14.T.50.11.L	400	410	4233.5	4021.8	846.7	804.4	92.4	92.5	92.5	59.8	71.7	77.6	19184.6
KPL.1600.400.14.T.50.13.L	400	410	4233.5	4021.8	846.7	804.4	92.4	92.5	92.5	59.8	71.7	77.6	19184.6
KPL.1600.400.14.T.50.15.L	400	410	4233.5	4021.8	846.7	804.4	92.4	92.5	92.5	59.8	71.7	77.6	19184.6
KPL.1600.400.14.T.50.17.L	400	410	4233.5	4021.8	846.7	804.4	92.4	92.5	92.5	59.8	71.7	77.6	19184.6
KPL.1600.400.14.T.50.19.L	400	410	4233.5	4021.8	846.7	804.4	92.4	92.5	92.5	59.8	71.7	77.6	19184.6
KPL.1600.500.14.T.50.15.L	500	410	5277.1	5013.3	1055.4	1002.7	92.3	92.4	92.4	60.0	71.8	77.9	23980.7
KPL.1600.500.14.T.50.17.L	500	410	5277.1	5013.3	1055.4	1002.7	92.3	92.4	92.4	60.0	71.8	77.9	23980.7
KPL.1600.500.14.T.50.19.L	500	410	5277.1	5013.3	1055.4	1002.7	92.3	92.4	92.4	60.0	71.8	77.9	23980.7
KPL.1600.500.14.T.50.21.L	500	410	5277.1	5013.3	1055.4	1002.7	92.3	92.4	92.4	60.0	71.8	77.9	23980.7
KPL.1600.550.14.T.50.19.L	550	410	5791.2	5501.6	1158.2	1100.3	92.4	92.5	92.5	60.2	71.9	78.0	26378.8
KPL.1600.550.14.T.50.21.L	550	410	5791.2	5501.6	1158.2	1100.3	92.4	92.5	92.5	60.2	71.9	78.0	26378.8

8.20 KPL.1600.---.16.T.50.L



TM065009

Pump data

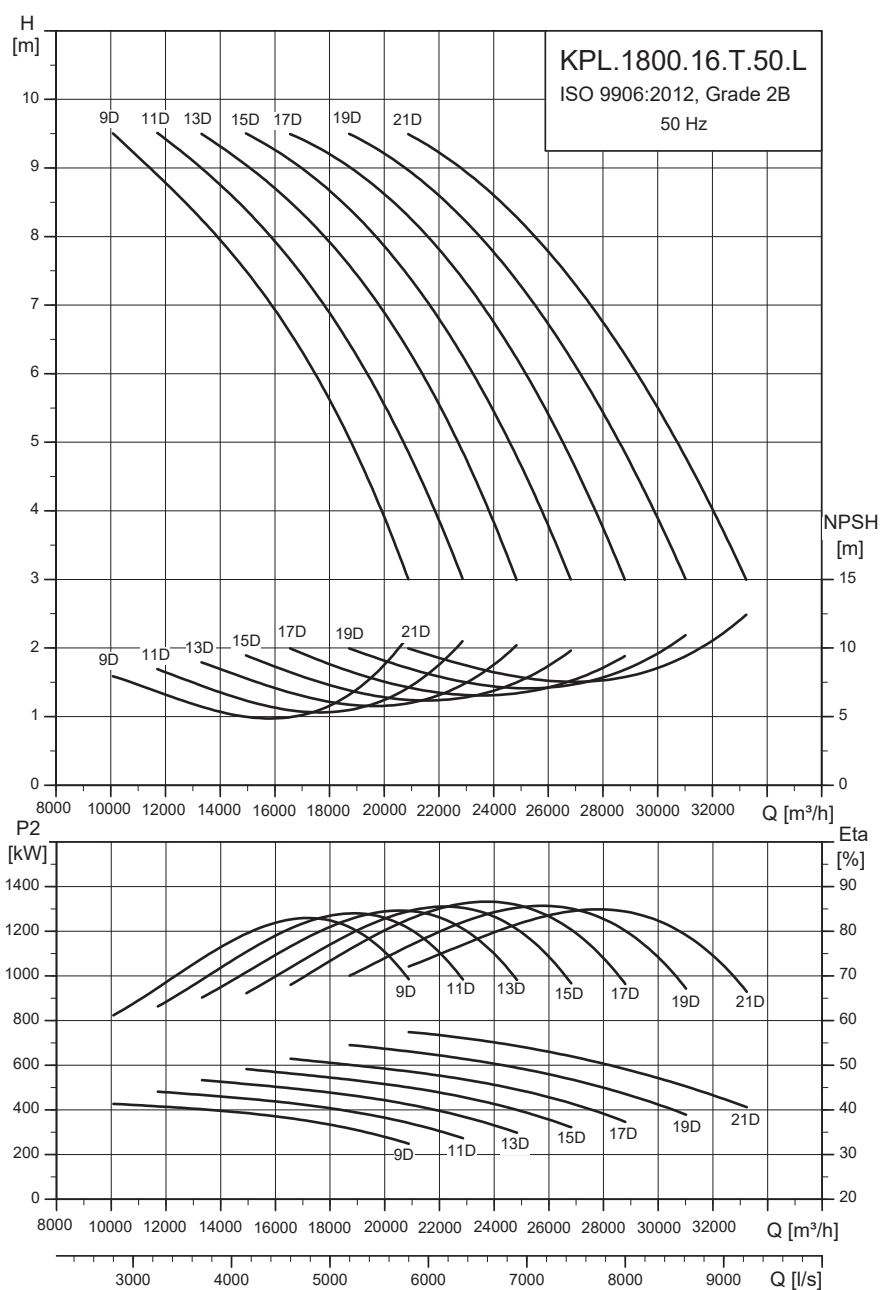
Model	No of poles	Discharge column size [mm]	Propeller no	Propeller diam. [mm]	No of blades	Free passage [mm]	Min. flow rate [m³/h]	Moment of inertia [kgm²]	
								Motor	Propeller
KPL.1600.250.16.T.50.9.L	16	1600	9	1150	4	165	7560	211.33	37.13
KPL.1600.250.16.T.50.11.L	16	1600	11	1150	4	180	8550	211.33	37.13
KPL.1600.250.16.T.50.13.L	16	1600	13	1150	4	195	12500	211.33	37.13
KPL.1600.300.16.T.50.11.L	16	1600	11	1150	4	180	8550	253.6	37.13
KPL.1600.300.16.T.50.13.L	16	1600	13	1150	4	195	9540	253.6	37.13
KPL.1600.300.16.T.50.15.L	16	1600	15	1150	4	210	12150	253.6	37.13
KPL.1600.300.16.T.50.17.L	16	1600	17	1150	4	225	14760	253.6	37.13
KPL.1600.350.16.T.50.15.L	16	1600	15	1150	4	210	10530	295.9	37.13
KPL.1600.350.16.T.50.17.L	16	1600	17	1150	4	225	11520	295.9	37.13
KPL.1600.350.16.T.50.19.L	16	1600	19	1150	4	240	14400	295.9	37.13
KPL.1600.350.16.T.50.21.L	16	1600	21	1150	4	255	17800	295.9	37.13
KPL.1600.400.16.T.50.17.L	16	1600	17	1150	4	225	11520	338.13	37.13
KPL.1600.400.16.T.50.19.L	16	1600	19	1150	4	240	12720	338.13	37.13

Model	No of poles	Discharge column size [mm]	Propeller no	Propeller diam. [mm]	No of blades	Free passage [mm]	Min. flow rate [m³/h]	Moment of inertia [kgm²]	
								Motor	Propeller
KPL.1600.400.16.T.50.21.L	16	1600	21	1150	4	255	13920	338.13	37.13
KPL.1600.400.16.T.50.23.L	16	1600	23	1150	4	270	17200	338.13	37.13
KPL.1600.450.16.T.50.21.L	16	1600	21	1150	4	255	13920	380.4	37.13
KPL.1600.450.16.T.50.23.L	16	1600	23	1150	4	270	15120	380.4	37.13

Electrical data

Model	P2 [kW]	min ⁻¹	I _{start} [A]		I _N [A]		η _{motor} [%]			Cos φ			Breakdown torque [Nm]
			380 V	400 V	380 V	400 V	1/2	3/4	1/1	1/2	3/4	1/1	
KPL.1600.250.16.T.50.9.L	250	365	2762.6	2624.4	552.5	524.9	91.0	91.2	91.3	62.4	71.8	75.3	14302.4
KPL.1600.250.16.T.50.11.L	250	365	2762.6	2624.4	552.5	524.9	91.0	91.2	91.3	62.4	71.8	75.3	14302.4
KPL.1600.250.16.T.50.13.L	250	365	2762.6	2624.4	552.5	524.9	91.0	91.2	91.3	62.4	71.8	75.3	14302.4
KPL.1600.300.16.T.50.11.L	300	365	3303.4	3138.3	660.7	627.7	91.3	91.5	91.5	62.5	71.9	75.4	17162.9
KPL.1600.300.16.T.50.13.L	300	365	3303.4	3138.3	660.7	627.7	91.3	91.5	91.5	62.5	71.9	75.4	17162.9
KPL.1600.300.16.T.50.15.L	300	365	3303.4	3138.3	660.7	627.7	91.3	91.5	91.5	62.5	71.9	75.4	17162.9
KPL.1600.300.16.T.50.17.L	300	365	3303.4	3138.3	660.7	627.7	91.3	91.5	91.5	62.5	71.9	75.4	17162.9
KPL.1600.350.16.T.50.15.L	350	365	3848.9	3656.5	769.8	731.3	91.3	91.5	91.5	62.6	72.0	75.5	20023.4
KPL.1600.350.16.T.50.17.L	350	365	3848.9	3656.5	769.8	731.3	91.3	91.5	91.5	62.6	72.0	75.5	20023.4
KPL.1600.350.16.T.50.19.L	350	365	3848.9	3656.5	769.8	731.3	91.3	91.5	91.5	62.6	72.0	75.5	20023.4
KPL.1600.350.16.T.50.21.L	350	365	3848.9	3656.5	769.8	731.3	91.3	91.5	91.5	62.6	72.0	75.5	20023.4
KPL.1600.400.16.T.50.17.L	400	365	4383.4	4164.2	876.7	832.8	91.5	91.6	91.7	62.7	72.1	75.6	22883.8
KPL.1600.400.16.T.50.19.L	400	365	4383.4	4164.2	876.7	832.8	91.5	91.6	91.7	62.7	72.1	75.6	22883.8
KPL.1600.400.16.T.50.21.L	400	365	4383.4	4164.2	876.7	832.8	91.5	91.6	91.7	62.7	72.1	75.6	22883.8
KPL.1600.400.16.T.50.23.L	400	365	4383.4	4164.2	876.7	832.8	91.5	91.6	91.7	62.7	72.1	75.6	22883.8
KPL.1600.450.16.T.50.21.L	450	365	4914.1	4668.3	982.8	933.7	91.8	91.9	91.9	62.8	72.2	75.7	25528.9
KPL.1600.450.16.T.50.23.L	450	365	4914.1	4668.3	982.8	933.7	91.8	91.9	91.9	62.8	72.2	75.7	25528.9

8.21 KPL.1800.---.16.T.50.L



TM065008

Pump data

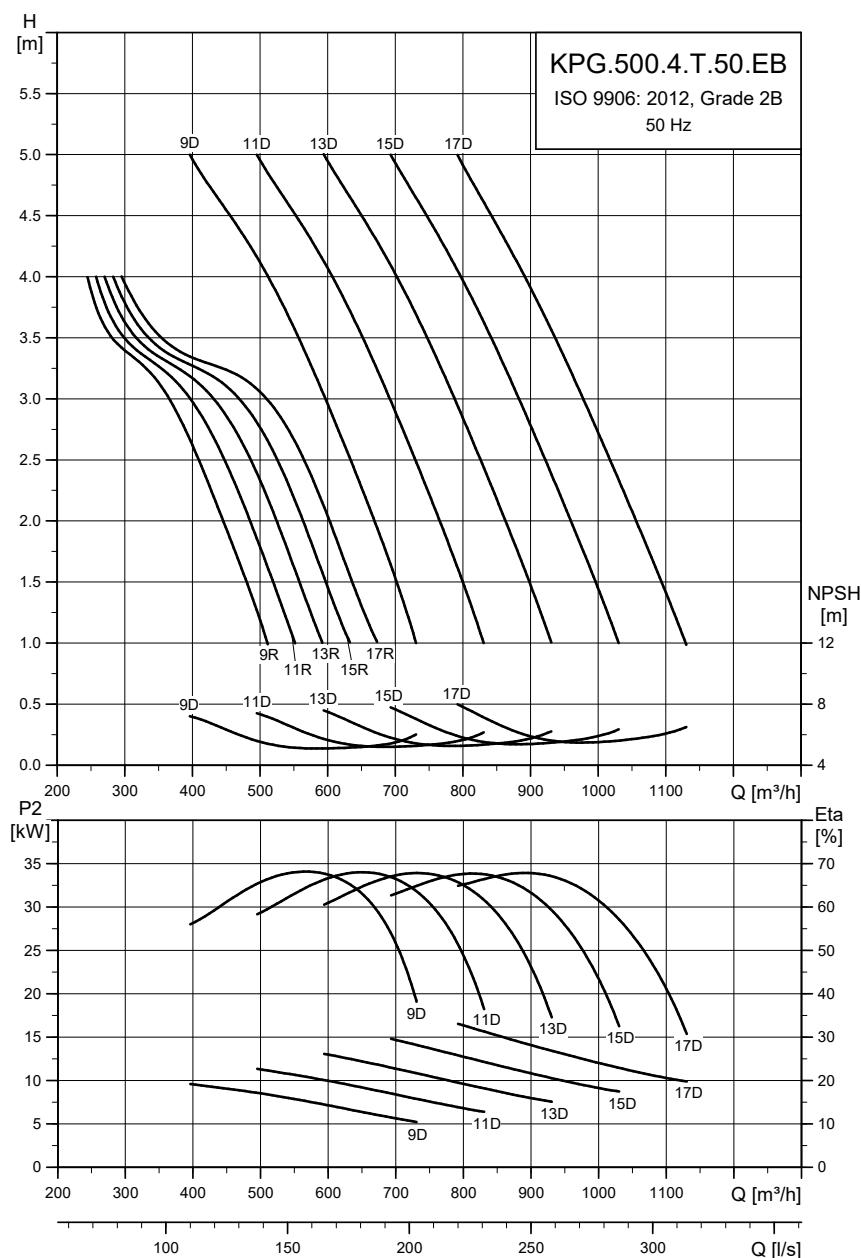
Model	No of poles	Discharge column size [mm]	Propeller no	Propeller diam. [mm]	No of blades	Free passage [mm]	Min. flow rate [m³/h]	Moment of inertia [kgm²]	
								Motor	Propeller
KPL.1800.450.16.T.50.9.L	16	1800	9	1150	4	180	10080	380.4	64.5
KPL.1800.450.16.T.50.11.L	16	1800	11	1300	4	195	14500	380.4	64.5
KPL.1800.450.16.T.50.13.L	16	1800	13	1300	4	210	19260	380.4	64.5
KPL.1800.500.16.T.50.11.L	16	1800	11	1300	4	195	11700	422.7	64.5
KPL.1800.500.16.T.50.13.L	16	1800	13	1300	4	210	15660	422.7	64.5
KPL.1800.500.16.T.50.15.L	16	1800	15	1300	4	240	20967	422.7	64.5
KPL.1800.500.16.T.50.17.L	16	1800	17	1300	4	250	24405	422.7	64.5
KPL.1800.600.16.T.50.13.L	16	1800	13	1300	4	210	13320	507.2	64.5
KPL.1800.600.16.T.50.15.L	16	1800	15	1300	4	240	14940	507.2	64.5
KPL.1800.600.16.T.50.17.L	16	1800	17	1300	4	250	19078	507.2	64.5
KPL.1800.600.16.T.50.19.L	16	1800	19	1300	4	270	24000	507.2	64.5
KPL.1800.600.16.T.50.21.L	16	1800	21	1300	4	285	27600	507.2	64.5

Model	No of poles	Discharge column size [mm]	Propeller no	Propeller diam. [mm]	No of blades	Free passage [mm]	Min. flow rate [m³/h]	Moment of inertia [kgm²]	
								Motor	Propeller
KPL.1800.700.16.T.50.15.L	16	1800	15	1300	4	240	14940	591.73	64.5
KPL.1800.700.16.T.50.17.L	16	1800	17	1300	4	250	16558	591.73	64.5
KPL.1800.700.16.T.50.19.L	16	1800	19	1300	4	270	18720	591.73	64.5
KPL.1800.700.16.T.50.21.L	16	1800	21	1300	4	285	23637	591.73	64.5

Electrical data

Model	P2 [kW]	min ⁻¹	I _{start} [A]		I _N [A]		η _{motor} [%]			Cos φ			Breakdown torque [Nm]
			380 V	400 V	380 V	400 V	1/2	3/4	1/1	1/2	3/4	1/1	
KPL.1800.450.16.T.50.9.L	450	365	4914.1	4668.3	982.8	933.7	91.8	91.9	91.9	62.8	72.2	75.7	25528.9
KPL.1800.450.16.T.50.11.L	450	365	4914.1	4668.3	982.8	933.7	91.8	91.9	91.9	62.8	72.2	75.7	25528.9
KPL.1800.450.16.T.50.13.L	450	365	4914.1	4668.3	982.8	933.7	91.8	91.9	91.9	62.8	72.2	75.7	25528.9
KPL.1800.500.16.T.50.11.L	500	365	5441.0	5169.0	1088.2	1033.8	92.0	92.1	92.1	62.9	72.3	75.8	28476.5
KPL.1800.500.16.T.50.13.L	500	365	5441.0	5169.0	1088.2	1033.8	92.0	92.1	92.1	62.9	72.3	75.8	28476.5
KPL.1800.500.16.T.50.15.L	500	365	5441.0	5169.0	1088.2	1033.8	92.0	92.1	92.1	62.9	72.3	75.8	28476.5
KPL.1800.500.16.T.50.17.L	500	365	5441.0	5169.0	1088.2	1033.8	92.0	92.1	92.1	62.9	72.3	75.8	28476.5
KPL.1800.600.16.T.50.13.L	600	365	6513.5	6187.9	1302.7	1237.6	92.0	92.1	92.2	63.0	72.4	75.9	34171.8
KPL.1800.600.16.T.50.15.L	600	365	6513.5	6187.9	1302.7	1237.6	92.0	92.1	92.2	63.0	72.4	75.9	34171.8
KPL.1800.600.16.T.50.17.L	600	365	6513.5	6187.9	1302.7	1237.6	92.0	92.1	92.2	63.0	72.4	75.9	34171.8
KPL.1800.600.16.T.50.19.L	600	365	6513.5	6187.9	1302.7	1237.6	92.0	92.1	92.2	63.0	72.4	75.9	34171.8
KPL.1800.600.16.T.50.21.L	600	365	6513.5	6187.9	1302.7	1237.6	92.0	92.1	92.2	63.0	72.4	75.9	34171.8
KPL.1800.700.16.T.50.15.L	700	365	7582.7	7203.5	1516.5	1440.7	92.1	92.3	92.4	63.0	72.4	75.9	39767.1
KPL.1800.700.16.T.50.17.L	700	365	7582.7	7203.5	1516.5	1440.7	92.1	92.3	92.4	63.0	72.4	75.9	39767.1
KPL.1800.700.16.T.50.19.L	700	365	7582.7	7203.5	1516.5	1440.7	92.1	92.3	92.4	63.0	72.4	75.9	39767.1
KPL.1800.700.16.T.50.21.L	700	365	7582.7	7203.5	1516.5	1440.7	92.1	92.3	92.4	63.0	72.4	75.9	39767.1

8.22 KPG.500.---.4.T.50.EB



TM079663

Performance curves of:

- Forward flow direction are documented by the prefix "D", for example "9D".
- Reverse flow direction are documented by the prefix "R", for example "9R".

Pump data

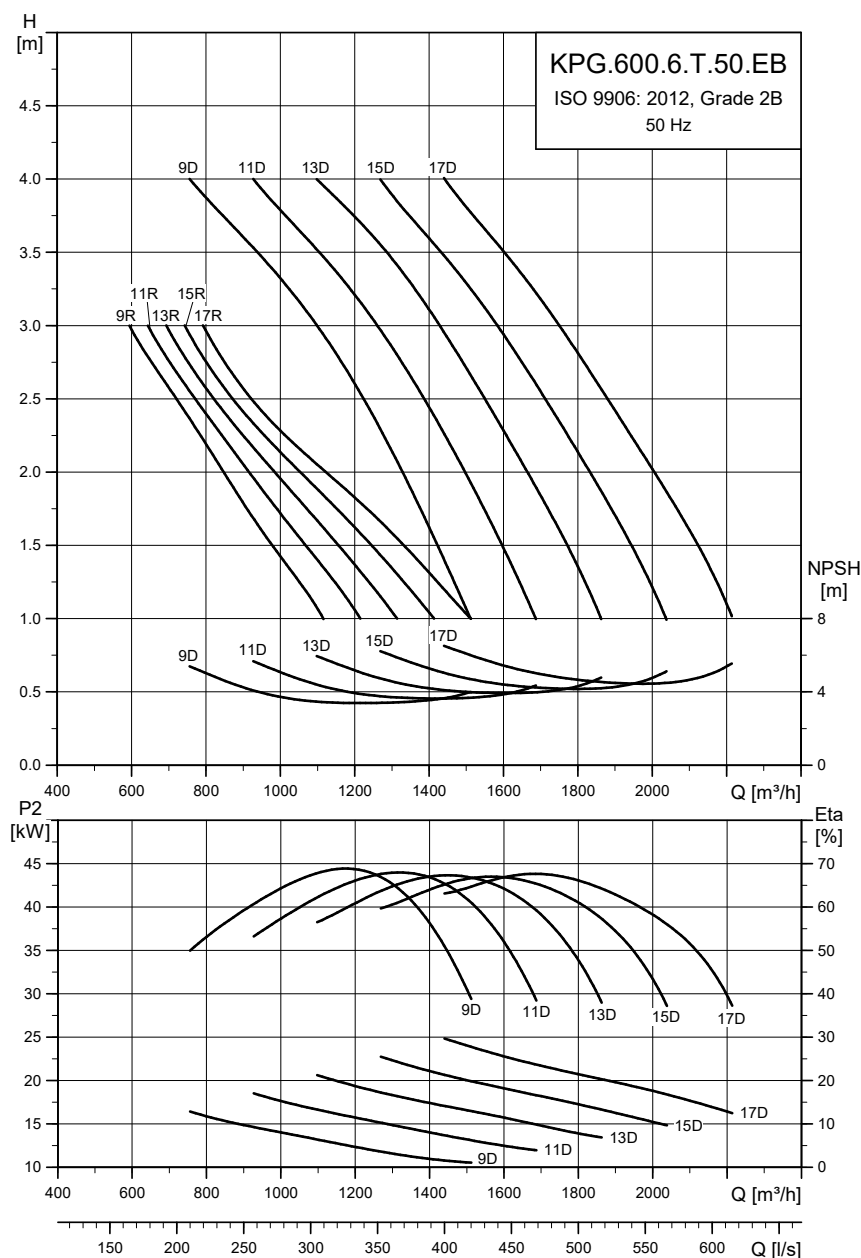
Model	No of poles	Discharge column size [mm]	Propeller no	Propeller diam. [mm]	No of blades	Free passage [mm]	Min. flow rate [m³/h]	Moment of inertia [kgm²]	
								Motor	Propeller
KPG.500.11.4.T.50.9.EB	4	500	9	270	3	35	396	0.29	0.038
KPG.500.15.4.T.50.9.EB	4	500	9	270	3	35	396	0.39	0.038
KPG.500.15.4.T.50.11.EB	4	500	11	270	3	40	495	0.39	0.038
KPG.500.15.4.T.50.13.EB	4	500	13	270	3	45	594	0.39	0.038
KPG.500.15.4.T.50.15.EB	4	500	15	270	3	48	749	0.39	0.038
KPG.500.15.4.T.50.17.EB	4	500	17	270	3	50	893	0.39	0.038
KPG.500.19.4.T.50.9.EB	4	500	9	270	3	35	396	0.58	0.038
KPG.500.19.4.T.50.11.EB	4	500	11	270	3	40	495	0.58	0.038
KPG.500.19.4.T.50.13.EB	4	500	13	270	3	45	594	0.58	0.038
KPG.500.19.4.T.50.15.EB	4	500	15	270	3	48	693	0.58	0.038

Model	No of poles	Discharge column size [mm]	Propeller no	Propeller diam. [mm]	No of blades	Free passage [mm]	Min. flow rate [m³/h]	Moment of inertia [kgm²]	
								Motor	Propeller
KPG.500.19.4.T.50.17.EB	4	500	17	270	3	50	792	0.58	0.038
KPG.500.22.4.T.50.9.EB	4	500	9	270	3	35	396	0.66	0.038
KPG.500.22.4.T.50.11.EB	4	500	11	270	3	40	495	0.66	0.038
KPG.500.22.4.T.50.13.EB	4	500	13	270	3	45	594	0.66	0.038
KPG.500.22.4.T.50.15.EB	4	500	15	270	3	48	693	0.66	0.038
KPG.500.22.4.T.50.17.EB	4	500	17	270	3	50	792	0.66	0.038

Electrical data

Model	P2 [kW]	min ⁻¹	I _{start} [A]		I _N [A]		η _{motor} [%]			Cos φ			Breakdown torque [Nm]
			380 V	400 V	380 V	400 V	1/2	3/4	1/1	1/2	3/4	1/1	
KPG.500.11.4.T.50.9.EB	11.0	1450.0	131.2	124.6	23.4	22.3	84.5	86.5	87.0	67.0	77.0	82.0	180.0
KPG.500.15.4.T.50.9.EB	15.0	1450.0	175.8	167.0	31.4	29.8	85.5	87.5	88.0	67.5	77.5	82.5	245.0
KPG.500.15.4.T.50.11.EB	15.0	1450.0	175.8	167.0	31.4	29.8	85.5	87.5	88.0	67.5	77.5	82.5	245.0
KPG.500.15.4.T.50.13.EB	15.0	1450.0	175.8	167.0	31.4	29.8	85.5	87.5	88.0	67.5	77.5	82.5	245.0
KPG.500.15.4.T.50.15.EB	15.0	1450.0	175.8	167.0	31.4	29.8	85.5	87.5	88.0	67.5	77.5	82.5	245.0
KPG.500.15.4.T.50.17.EB	15.0	1450.0	175.8	167.0	31.4	29.8	85.5	87.5	88.0	67.5	77.5	82.5	245.0
KPG.500.19.4.T.50.9.EB	19.0	1450.0	221.4	210.3	39.5	37.6	86.0	88.0	88.5	67.5	77.5	82.5	298.0
KPG.500.19.4.T.50.11.EB	19.0	1450.0	221.4	210.3	39.5	37.6	86.0	88.0	88.5	67.5	77.5	82.5	298.0
KPG.500.19.4.T.50.13.EB	19.0	1450.0	221.4	210.3	39.5	37.6	86.0	88.0	88.5	67.5	77.5	82.5	298.0
KPG.500.19.4.T.50.15.EB	19.0	1450.0	221.4	210.3	39.5	37.6	86.0	88.0	88.5	67.5	77.5	82.5	298.0
KPG.500.19.4.T.50.17.EB	19.0	1450.0	221.4	210.3	39.5	37.6	86.0	88.0	88.5	67.5	77.5	82.5	298.0
KPG.500.22.4.T.50.9.EB	22.0	1450.0	251.9	239.3	45.0	42.7	86.5	88.5	89.0	68.5	78.5	83.5	346.0
KPG.500.22.4.T.50.11.EB	22.0	1450.0	251.9	239.3	45.0	42.7	86.5	88.5	89.0	68.5	78.5	83.5	346.0
KPG.500.22.4.T.50.13.EB	22.0	1450.0	251.9	239.3	45.0	42.7	86.5	88.5	89.0	68.5	78.5	83.5	346.0
KPG.500.22.4.T.50.15.EB	22.0	1450.0	251.9	239.3	45.0	42.7	86.5	88.5	89.0	68.5	78.5	83.5	346.0
KPG.500.22.4.T.50.17.EB	22.0	1450.0	251.9	239.3	45.0	42.7	86.5	88.5	89.0	68.5	78.5	83.5	346.0

8.23 KPG.600.---.6.T.50.EB



TM079664

Performance curves of:

- Forward flow direction are documented by the prefix "D", for example "9D".
- Reverse flow direction are documented by the prefix "R", for example "9R".

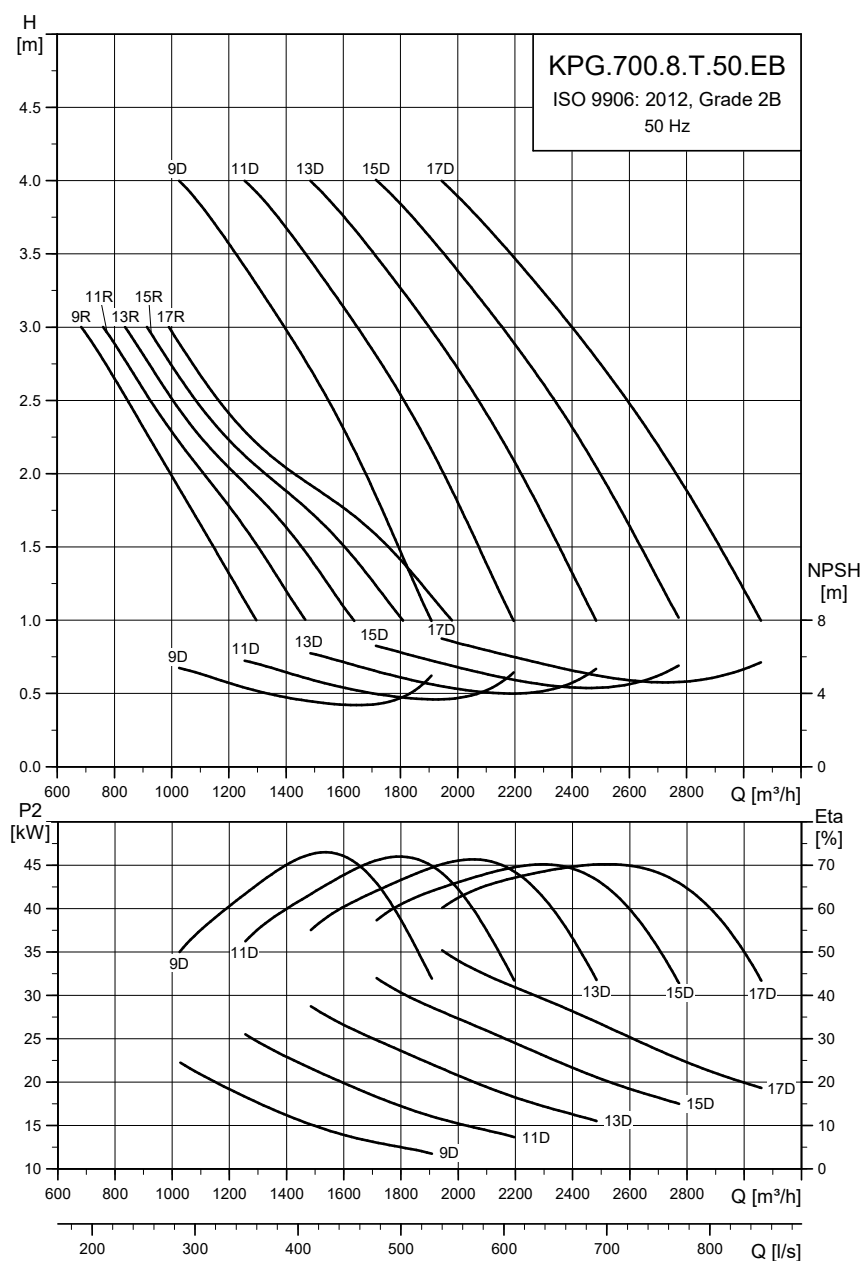
Pump data

Model	No of poles	Discharge column size [mm]	Propeller no	Propeller diam. [mm]	No of blades	Free passage [mm]	Min. flow rate [m³/h]	Moment of inertia [kgm²]	
								Motor	Propeller
KPG.600.19.6.T.50.9.EB	6	600	9	380	3	50	756	0.61	0.175
KPG.600.19.6.T.50.11.EB	6	600	11	380	3	55	1000	0.61	0.175
KPG.600.19.6.T.50.13.EB	6	600	13	380	3	60	1250	0.61	0.175
KPG.600.22.6.T.50.9.EB	6	600	9	380	3	50	756	0.67	0.175
KPG.600.22.6.T.50.11.EB	6	600	11	380	3	55	927	0.67	0.175
KPG.600.22.6.T.50.13.EB	6	600	13	380	3	60	1098	0.67	0.175
KPG.600.22.6.T.50.15.EB	6	600	15	380	3	65	1390	0.67	0.175
KPG.600.22.6.T.50.17.EB	6	600	17	380	3	70	1692	0.67	0.175

Electrical data

Model	P2 [kW]	min ⁻¹	I _{start} [A]		I _N [A]		η _{motor} [%]			Cos φ			Breakdown torque [Nm]
			380 V	400 V	380 V	400 V	1/2	3/4	1/1	1/2	3/4	1/1	
KPG.600.19.6.T.50.9.EB	19.0	950.0	234.0	222.3	41.8	39.7	85.5	87.5	88.0	60.5	72.5	78.5	470.0
KPG.600.19.6.T.50.11.EB	19.0	950.0	234.0	222.3	41.8	39.7	85.5	87.5	88.0	60.5	72.5	78.5	470.0
KPG.600.19.6.T.50.13.EB	19.0	950.0	234.0	222.3	41.8	39.7	85.5	87.5	88.0	60.5	72.5	78.5	470.0
KPG.600.22.6.T.50.9.EB	22.0	950.0	266.1	252.8	47.5	45.1	86.0	88.0	88.5	62.0	73.5	79.5	545.0
KPG.600.22.6.T.50.11.EB	22.0	950.0	266.1	252.8	47.5	45.1	86.0	88.0	88.5	62.0	73.5	79.5	545.0
KPG.600.22.6.T.50.13.EB	22.0	950.0	266.1	252.8	47.5	45.1	86.0	88.0	88.5	62.0	73.5	79.5	545.0
KPG.600.22.6.T.50.15.EB	22.0	950.0	266.1	252.8	47.5	45.1	86.0	88.0	88.5	62.0	73.5	79.5	545.0
KPG.600.22.6.T.50.17.EB	22.0	950.0	266.1	252.8	47.5	45.1	86.0	88.0	88.5	62.0	73.5	79.5	545.0

8.24 KPG.700.---.8.T.50.EB



Performance curves of:

- Forward flow direction are documented by the prefix "D", for example "9D".
- Reverse flow direction are documented by the prefix "R", for example "9R".

TM079665

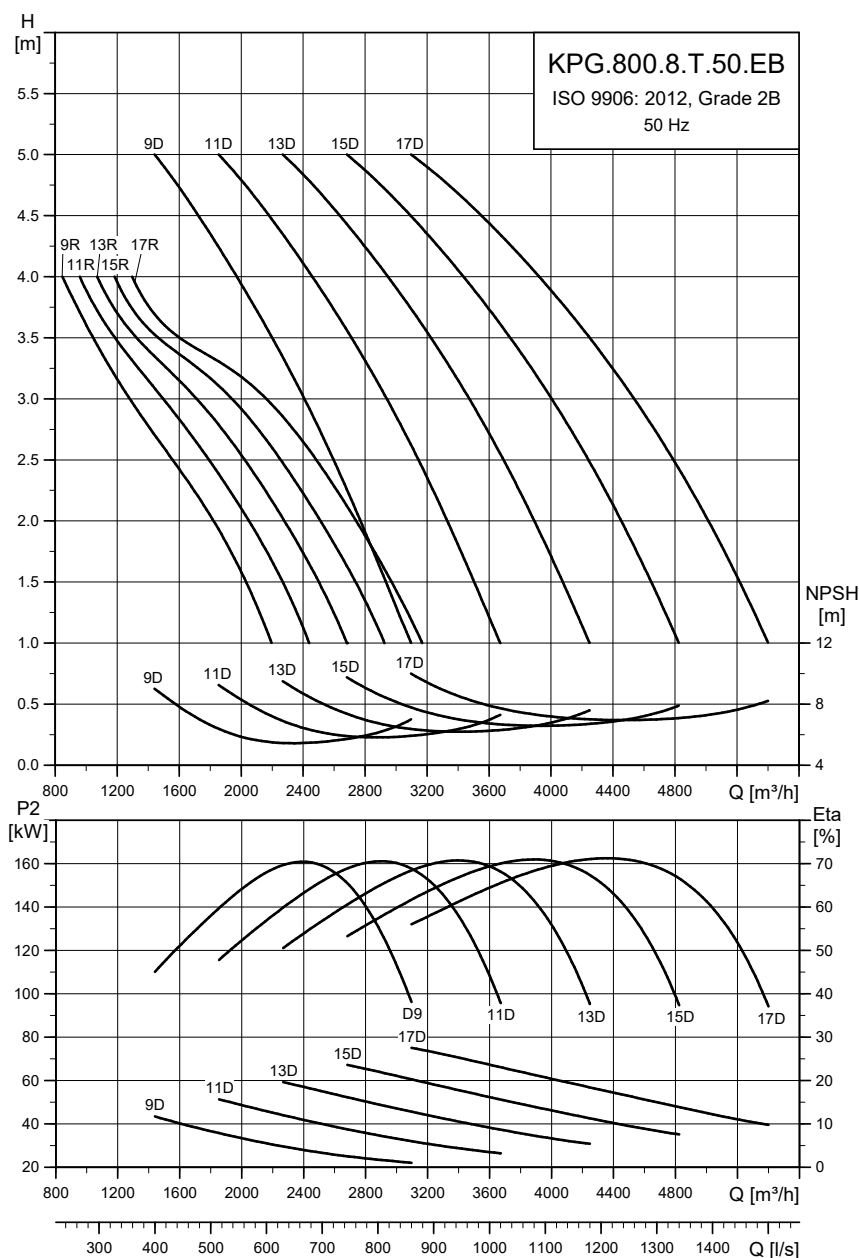
Pump data

Model	No of poles	Discharge column size [mm]	Propeller no	Propeller diam. [mm]	No of blades	Free passage [mm]	Min. flow rate [m ³ /h]	Moment of inertia [kgm ²]	
								Motor	Propeller
KPG.700.22.8.T.50.9.EB	8	700	9	470	3	70	1152	4.9	0.6
KPG.700.30.8.T.50.9.EB	8	700	9	470	3	70	1026	5.7	0.6
KPG.700.30.8.T.50.11.EB	8	700	11	470	3	75	1255	5.7	0.6
KPG.700.30.8.T.50.13.EB	8	700	13	470	3	80	1640	5.7	0.6
KPG.700.30.8.T.50.15.EB	8	700	15	470	3	90	1894	5.7	0.6
KPG.700.37.8.T.50.11.EB	8	700	11	470	3	75	1255	6.3	0.6
KPG.700.37.8.T.50.13.EB	8	700	13	470	3	80	1485	6.3	0.6
KPG.700.37.8.T.50.15.EB	8	700	15	470	3	90	1714	6.3	0.6
KPG.700.37.8.T.50.17.EB	8	700	17	470	3	100	1944	6.3	0.6

Electrical data

Model	P2 [kW]	min ⁻¹	I _{start} [A]		I _N [A]		η _{motor} [%]			Cos φ			Breakdown torque [Nm]
			380 V	400 V	380 V	400 V	1/2	3/4	1/1	1/2	3/4	1/1	
KPG.700.22.8.T.50.9.EB	22.0	720.0	274.7	260.9	49.9	47.4	85.5	87.3	87.5	59.5	71.5	76.5	638.0
KPG.700.30.8.T.50.9.EB	30.0	720.0	370.0	351.5	67.3	63.9	86.0	87.8	88.0	60.0	72.0	77.0	869.0
KPG.700.30.8.T.50.11.EB	30.0	720.0	370.0	351.5	67.3	63.9	86.0	87.8	88.0	60.0	72.0	77.0	869.0
KPG.700.30.8.T.50.13.EB	30.0	720.0	370.0	351.5	67.3	63.9	86.0	87.8	88.0	60.0	72.0	77.0	869.0
KPG.700.30.8.T.50.15.EB	30.0	720.0	370.0	351.5	67.3	63.9	86.0	87.8	88.0	60.0	72.0	77.0	869.0
KPG.700.37.8.T.50.11.EB	37.0	720.0	453.7	431.0	82.5	78.4	86.5	88.3	88.5	60.0	72.0	77.0	1071.0
KPG.700.37.8.T.50.13.EB	37.0	720.0	453.7	431.0	82.5	78.4	86.5	88.3	88.5	60.0	72.0	77.0	1071.0
KPG.700.37.8.T.50.15.EB	37.0	720.0	453.7	431.0	82.5	78.4	86.5	88.3	88.5	60.0	72.0	77.0	1071.0
KPG.700.37.8.T.50.17.EB	37.0	720.0	453.7	431.0	82.5	78.4	86.5	88.3	88.5	60.0	72.0	77.0	1071.0

8.25 KPG.800.---.8.T.50.EB



TM079666

Performance curves of:

- Forward flow direction are documented by the prefix "D", for example "9D".
- Reverse flow direction are documented by the prefix "R", for example "9R".

Pump data

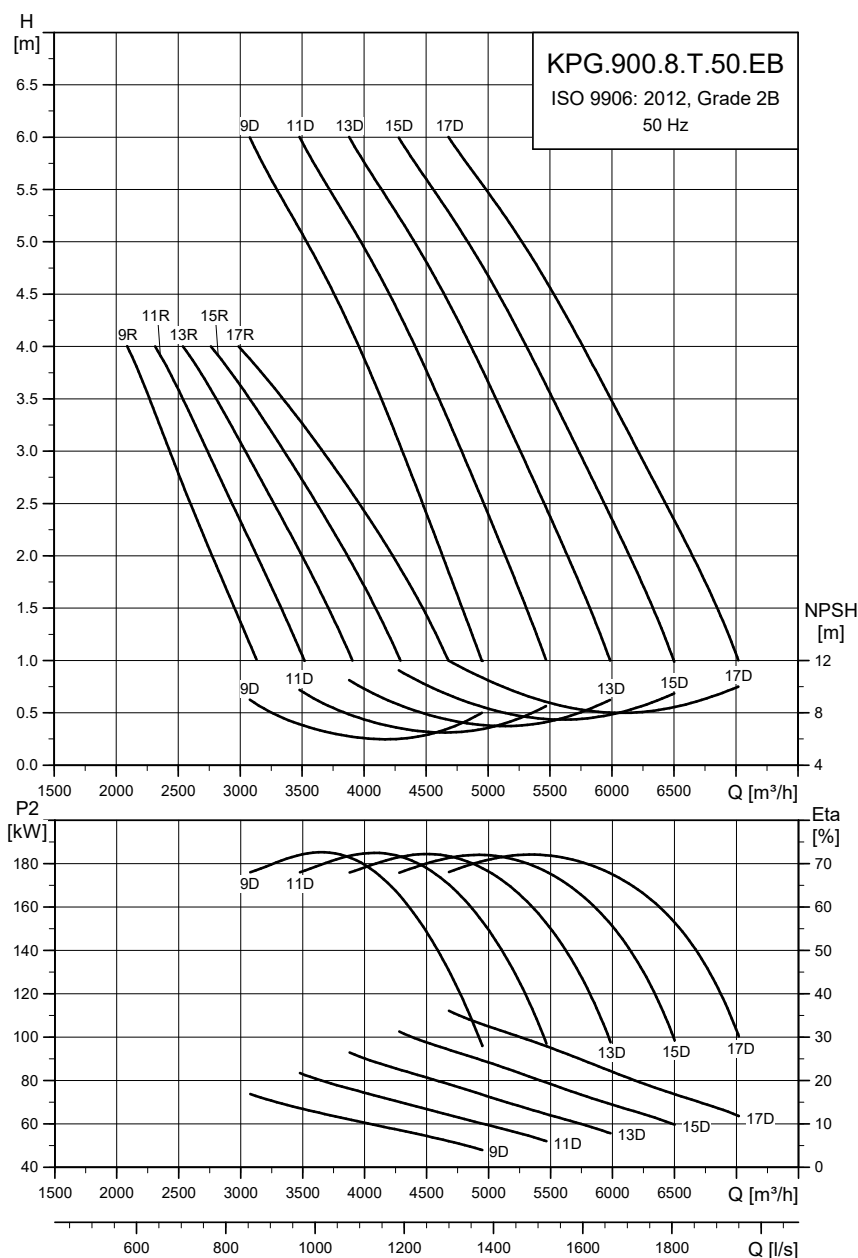
Model	No of poles	Discharge column size [mm]	Propeller no	Propeller diam. [mm]	No of blades	Free passage [mm]	Min. flow rate [m³/h]	Moment of inertia [kgm²]	
								Motor	Propeller
KPG.800.37.8.T.50.9.EB	8	800	9	540	3	80	1872	6.3	1.065
KPG.800.45.8.T.50.9.EB	8	800	9	540	3	80	1440	7.2	1.065
KPG.800.45.8.T.50.11.EB	8	800	11	540	3	85	2349	7.2	1.065
KPG.800.55.8.T.50.9.EB	8	800	9	540	3	80	1440	15.5	1.065
KPG.800.55.8.T.50.11.EB	8	800	11	540	3	85	1845	15.5	1.065
KPG.800.55.8.T.50.13.EB	8	800	13	540	3	90	2825	15.5	1.065
KPG.800.55.8.T.50.15.EB	8	800	15	540	3	100	3736	15.5	1.065

Model	No of poles	Discharge column size [mm]	Propeller no	Propeller diam. [mm]	No of blades	Free passage [mm]	Min. flow rate [m³/h]	Moment of inertia [kgm²]	
								Motor	Propeller
KPG.800.75.8.T.50.11.EB	8	800	11	540	3	85	1854	18.4	1.065
KPG.800.75.8.T.50.13.EB	8	800	13	540	3	90	2268	18.4	1.065
KPG.800.75.8.T.50.15.EB	8	800	15	540	3	100	2681	18.4	1.065
KPG.800.75.8.T.50.17.EB	8	800	17	540	3	110	3095	18.4	1.065

Electrical data

Model	P2 [kW]	min ⁻¹	I _{start} [A]		I _N [A]		η _{motor} [%]			Cos φ			Breakdown torque [Nm]
			380 V	400 V	380 V	400 V	1/2	3/4	1/1	1/2	3/4	1/1	
KPG.800.37.8.T.50.9.EB	37.0	720.0	453.7	431.0	82.5	78.4	86.5	88.3	88.5	60.0	72.0	77.0	1071.0
KPG.800.45.8.T.50.9.EB	45.0	720.0	545.2	517.9	99.1	94.2	87.0	88.8	89.0	60.5	72.5	77.5	1245.0
KPG.800.45.8.T.50.11.EB	45.0	720.0	545.2	517.9	99.1	94.2	87.0	88.8	89.0	60.5	72.5	77.5	1245.0
KPG.800.55.8.T.50.9.EB	55.0	720.0	654.2	621.5	118.9	113.0	87.5	89.3	89.5	61.5	73.5	78.5	1520.0
KPG.800.55.8.T.50.11.EB	55.0	720.0	654.2	621.5	118.9	113.0	87.5	89.3	89.5	61.5	73.5	78.5	1520.0
KPG.800.55.8.T.50.13.EB	55.0	720.0	654.2	621.5	118.9	113.0	87.5	89.3	89.5	61.5	73.5	78.5	1520.0
KPG.800.55.8.T.50.15.EB	55.0	720.0	654.2	621.5	118.9	113.0	87.5	89.3	89.5	61.5	73.5	78.5	1520.0
KPG.800.75.8.T.50.11.EB	75.0	720.0	881.5	837.4	160.3	152.3	88.0	89.8	90.0	62.5	74.0	79.0	2073.0
KPG.800.75.8.T.50.13.EB	75.0	720.0	881.5	837.4	160.3	152.3	88.0	89.8	90.0	62.5	74.0	79.0	2073.0
KPG.800.75.8.T.50.15.EB	75.0	720.0	881.5	837.4	160.3	152.3	88.0	89.8	90.0	62.5	74.0	79.0	2073.0
KPG.800.75.8.T.50.17.EB	75.0	720.0	881.5	837.4	160.3	152.3	88.0	89.8	90.0	62.5	74.0	79.0	2073.0

8.26 KPG.900.---.8.T.50.EB



TM079667

Performance curves of:

- Forward flow direction are documented by the prefix "D", for example "9D".
- Reverse flow direction are documented by the prefix "R", for example "9R".

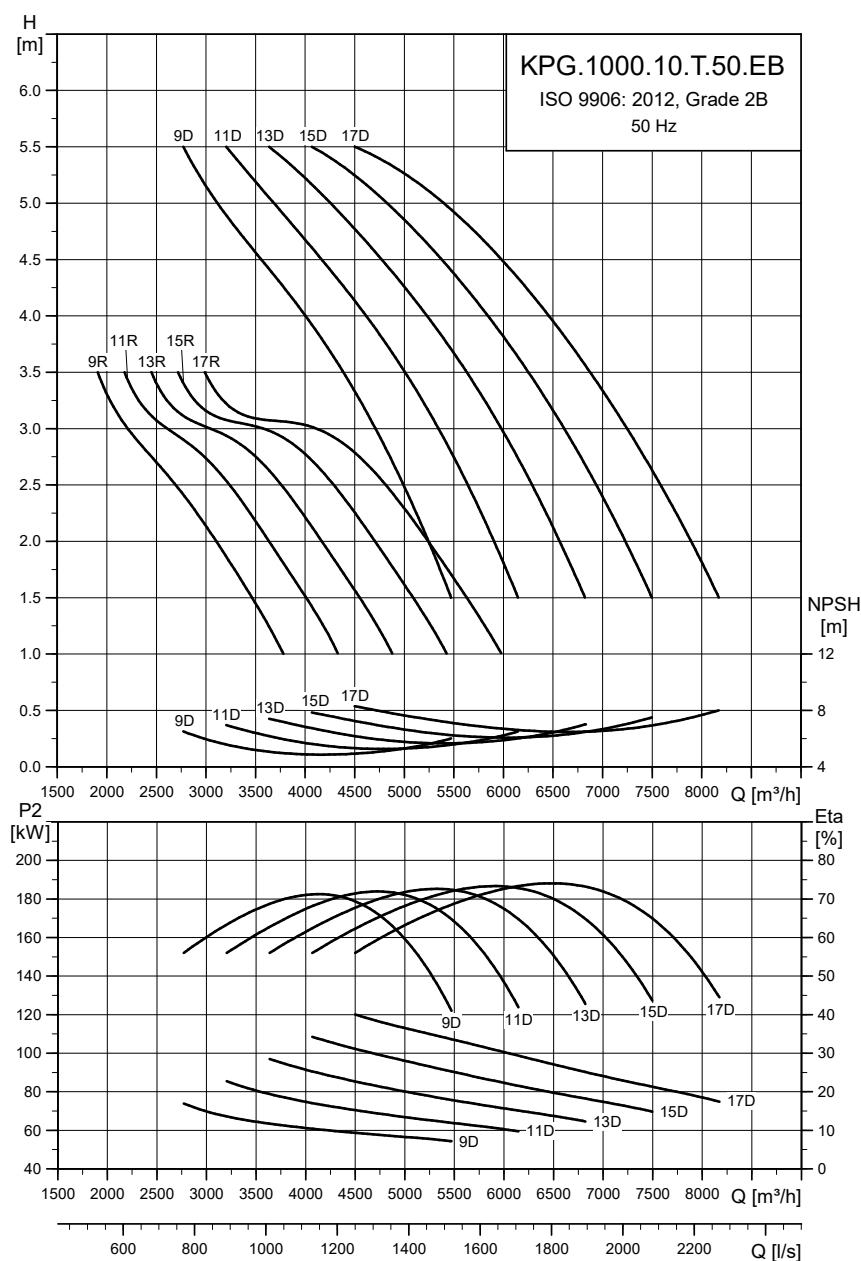
Pump data

Model	No of poles	Discharge column size [mm]	Propeller no	Propeller diam. [mm]	No of blades	Free passage [mm]	Min. flow rate [m³/h]	Moment of inertia [kgm²]	
								Motor	Propeller
KPG.900.75.8.T.50.9.EB	8	900	9	620	3	90	3077	18.4	2.4125
KPG.900.75.8.T.50.11.EB	8	900	11	620	3	95	4112	18.4	2.4125
KPG.900.90.8.T.50.9.EB	8	900	9	620	3	90	3077	22.1	2.4125
KPG.900.90.8.T.50.11.EB	8	900	11	620	3	95	3478	22.1	2.4125
KPG.900.90.8.T.50.13.EB	8	900	13	620	3	105	4193	22.1	2.4125
KPG.900.110.8.T.50.13.EB	8	900	13	620	3	105	3878	38.1	2.4125
KPG.900.110.8.T.50.15.EB	8	900	15	620	3	115	4279	38.1	2.4125
KPG.900.110.8.T.50.17.EB	8	900	17	620	3	125	5039	38.1	2.4125

Electrical data

Model	P2 [kW]	min ⁻¹	I _{start} [A]		I _N [A]		η _{motor} [%]			Cos φ			Breakdown torque [Nm]
			380 V	400 V	380 V	400 V	1/2	3/4	1/1	1/2	3/4	1/1	
KPG.900.75.8.T.50.9.EB	75.0	720.0	881.5	837.4	160.3	152.3	88.0	89.8	90.0	62.5	74.0	79.0	2073.0
KPG.900.75.8.T.50.11.EB	75.0	720.0	881.5	837.4	160.3	152.3	88.0	89.8	90.0	62.5	74.0	79.0	2073.0
KPG.900.90.8.T.50.9.EB	90.0	720.0	1048.8	996.4	190.7	181.2	88.2	90.0	90.2	64.0	74.5	79.5	2607.0
KPG.900.90.8.T.50.11.EB	90.0	720.0	1048.8	996.4	190.7	181.2	88.2	90.0	90.2	64.0	74.5	79.5	2607.0
KPG.900.90.8.T.50.13.EB	90.0	720.0	1048.8	996.4	190.7	181.2	88.2	90.0	90.2	64.0	74.5	79.5	2607.0
KPG.900.110.8.T.50.13.EB	110.0	720.0	1254.8	1192.1	228.2	216.7	89.0	90.8	91.0	65.5	75.5	80.5	2861.2
KPG.900.110.8.T.50.15.EB	110.0	720.0	1254.8	1192.1	228.2	216.7	89.0	90.8	91.0	65.5	75.5	80.5	2861.2
KPG.900.110.8.T.50.17.EB	110.0	720.0	1254.8	1192.1	228.2	216.7	89.0	90.8	91.0	65.5	75.5	80.5	2861.2

8.27 KPG.1000.---.10.T.50.EB



Performance curves of:

- Forward flow direction are documented by the prefix "D", for example "9D".
- Reverse flow direction are documented by the prefix "R", for example "9R".

TM079668

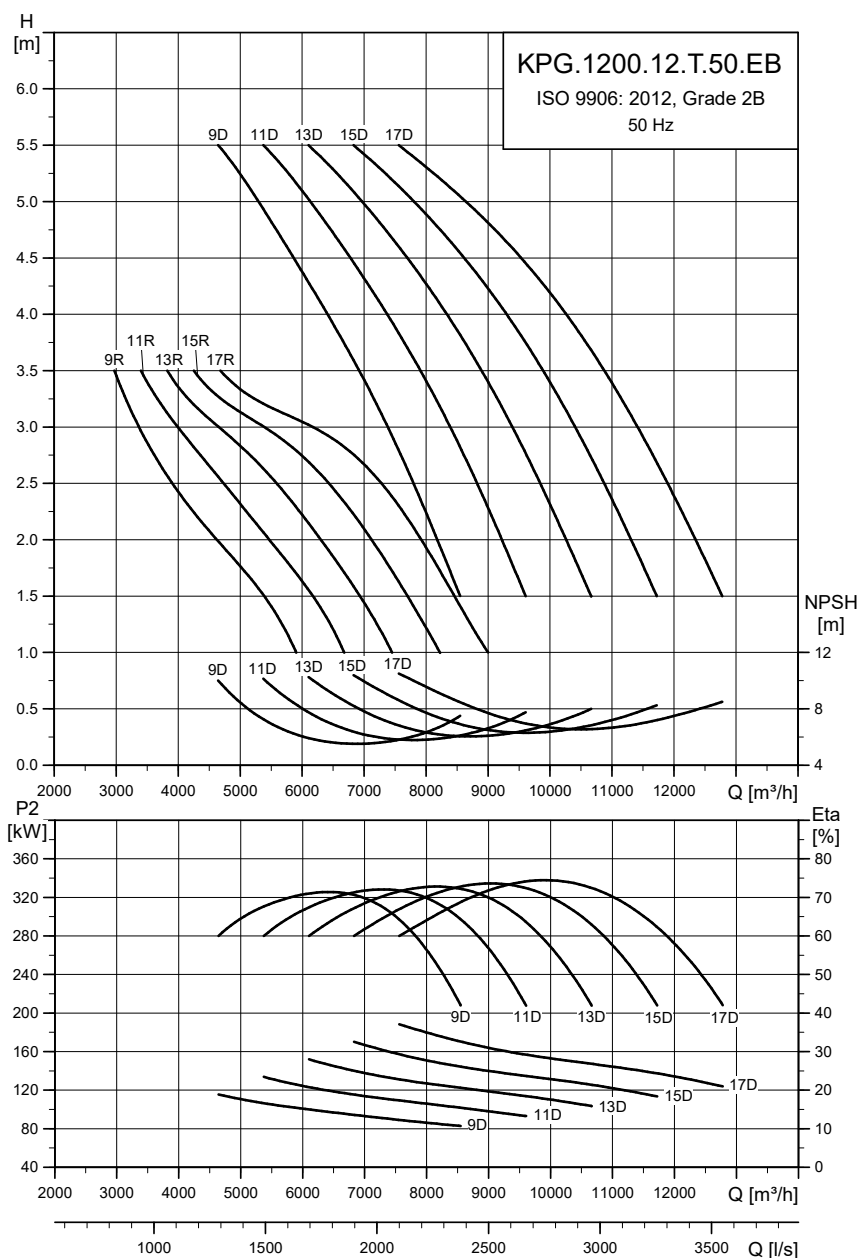
Pump data

Model	No of poles	Discharge column size [mm]	Propeller no	Propeller diam. [mm]	No of blades	Free passage [mm]	Min. flow rate [m³/h]	Moment of inertia [kgm²]	
								Motor	Propeller
KPG.1000.75.10.T.50.9.EB	10	1000	9	700	3	100	2771	32.1	3.9375
KPG.1000.75.10.T.50.11.EB	10	1000	11	700	3	110	4166	32.1	3.9375
KPG.1000.90.10.T.50.9.EB	10	1000	9	700	3	100	2771	39.3	3.9375
KPG.1000.90.10.T.50.11.EB	10	1000	11	700	3	110	3203	39.3	3.9375
KPG.1000.90.10.T.50.13.EB	10	1000	13	700	3	120	4256	39.3	3.9375
KPG.1000.132.10.T.50.13.EB	10	1000	13	700	3	120	3635	44	3.9375
KPG.1000.132.10.T.50.15.EB	10	1000	15	700	3	130	4067	44	3.9375
KPG.1000.132.10.T.50.17.EB	10	1000	17	700	3	140	4499	44	3.9375

Electrical data

Model	P2 [kW]	min ⁻¹	I _{start} [A]		I _N [A]		η _{motor} [%]			Cos φ			Breakdown torque [Nm]
			380 V	400 V	380 V	400 V	1/2	3/4	1/1	1/2	3/4	1/1	
KPG.1000.75.10.T.50.9.EB	75.0	580.0	836.9	795.0	167.4	159.0	87.0	88.7	89.0	61.5	71.5	76.5	2468.0
KPG.1000.75.10.T.50.11.EB	75.0	580.0	836.9	795.0	167.4	159.0	87.0	88.7	89.0	61.5	71.5	76.5	2468.0
KPG.1000.90.10.T.50.9.EB	90.0	580.0	944.2	897.0	171.7	163.1	88.7	88.9	89.0	89.3	87.5	89.5	3196.4
KPG.1000.90.10.T.50.11.EB	90.0	580.0	944.2	897.0	171.7	163.1	88.7	88.9	89.0	89.3	87.5	89.5	3196.4
KPG.1000.90.10.T.50.13.EB	90.0	580.0	944.2	897.0	171.7	163.1	88.7	88.9	89.0	89.3	87.5	89.5	3196.4
KPG.1000.132.10.T.50.13.EB	132.0	580.0	1439.0	1367.1	287.8	273.4	90.3	90.4	90.5	60.6	71.6	77.0	4240.6
KPG.1000.132.10.T.50.15.EB	132.0	580.0	1439.0	1367.1	287.8	273.4	90.3	90.4	90.5	60.6	71.6	77.0	4240.6
KPG.1000.132.10.T.50.17.EB	132.0	580.0	1439.0	1367.1	287.8	273.4	90.3	90.4	90.5	60.6	71.6	77.0	4240.6

8.28 KPG.1200.---.12.T.50.EB



TM079669

Performance curves of:

- Forward flow direction are documented by the prefix "D", for example "9D".
- Reverse flow direction are documented by the prefix "R", for example "9R".

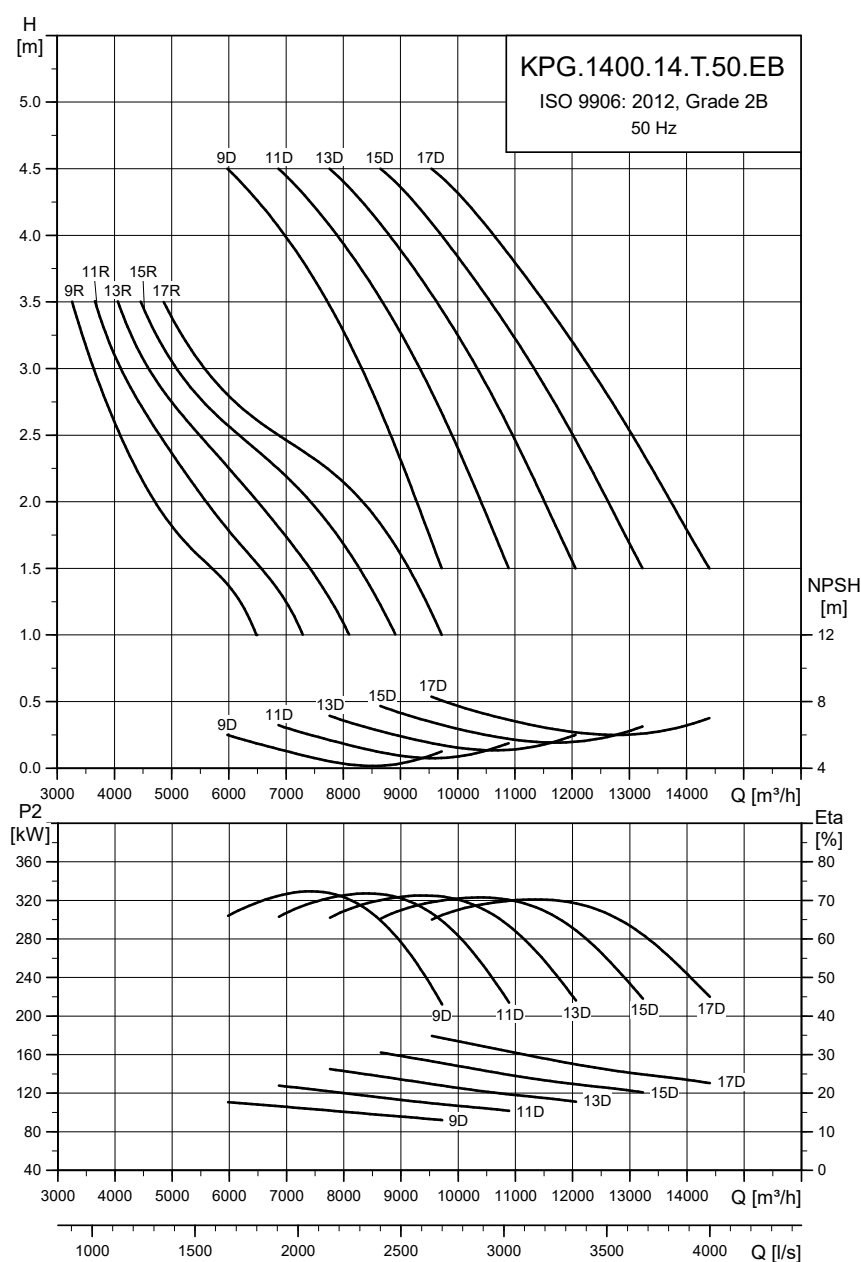
Pump data

Model	No of poles	Discharge column size [mm]	Propeller no	Propeller diam. [mm]	No of blades	Free passage [mm]	Min. flow rate [m³/h]	Moment of inertia [kgm²]	
								Motor	Propeller
KPG.1200.132.12.T.50.9.EB	12	1200	9	860	3	110	4643	51.2	9.975
KPG.1200.132.12.T.50.11.EB	12	1200	11	860	3	120	5800	51.2	9.975
KPG.1200.132.12.T.50.13.EB	12	1200	13	860	3	135	7702	51.2	9.975
KPG.1200.160.12.T.50.11.EB	12	1200	11	860	3	120	5372	79.3	9.975
KPG.1200.160.12.T.50.13.EB	12	1200	13	860	3	135	6101	79.3	9.975
KPG.1200.160.12.T.50.15.EB	12	1200	15	860	3	150	7801	79.3	9.975
KPG.1200.200.12.T.50.13.EB	12	1200	13	860	3	135	6101	116.9	9.975
KPG.1200.200.12.T.50.15.EB	12	1200	15	860	3	150	6830	116.9	9.975
KPG.1200.200.12.T.50.17.EB	12	1200	17	860	3	165	7558	116.9	9.975

Electrical data

Model	P2 [kW]	min ⁻¹	I _{start} [A]		I _N [A]		η _{motor} [%]			Cos φ			Breakdown torque [Nm]
			380 V	400 V	380 V	400 V	1/2	3/4	1/1	1/2	3/4	1/1	
KPG.1200.132.12.T.50.9.EB	132.0	485.0	2071.7	1968.2	291.8	277.2	91.3	91.4	91.4	60.3	70.3	75.2	6681.6
KPG.1200.132.12.T.50.11.EB	132.0	485.0	2071.7	1968.2	291.8	277.2	91.3	91.4	91.4	60.3	70.3	75.2	6681.6
KPG.1200.132.12.T.50.13.EB	132.0	485.0	2071.7	1968.2	291.8	277.2	91.3	91.4	91.4	60.3	70.3	75.2	6681.6
KPG.1200.160.12.T.50.11.EB	160.0	485.0	2111.4	2005.8	351.9	334.3	91.4	91.5	91.5	60.6	70.6	75.5	8450.3
KPG.1200.160.12.T.50.13.EB	160.0	485.0	2111.4	2005.8	351.9	334.3	91.4	91.5	91.5	60.6	70.6	75.5	8450.3
KPG.1200.160.12.T.50.15.EB	160.0	485.0	2111.4	2005.8	351.9	334.3	91.4	91.5	91.5	60.6	70.6	75.5	8450.3
KPG.1200.200.12.T.50.13.EB	200.0	485.0	2523.5	2397.3	435.1	413.3	91.8	91.9	91.9	63.2	74.7	76.0	8764.8
KPG.1200.200.12.T.50.15.EB	200.0	485.0	2523.5	2397.3	435.1	413.3	91.8	91.9	91.9	63.2	74.7	76.0	8764.8
KPG.1200.200.12.T.50.17.EB	200.0	485.0	2523.5	2397.3	435.1	413.3	91.8	91.9	91.9	63.2	74.7	76.0	8764.8

8.29 KPG.1400.---.14.T.50.EB



Performance curves of:

- Forward flow direction are documented by the prefix "D", for example "9D".
- Reverse flow direction are documented by the prefix "R", for example "9R".

TM079670

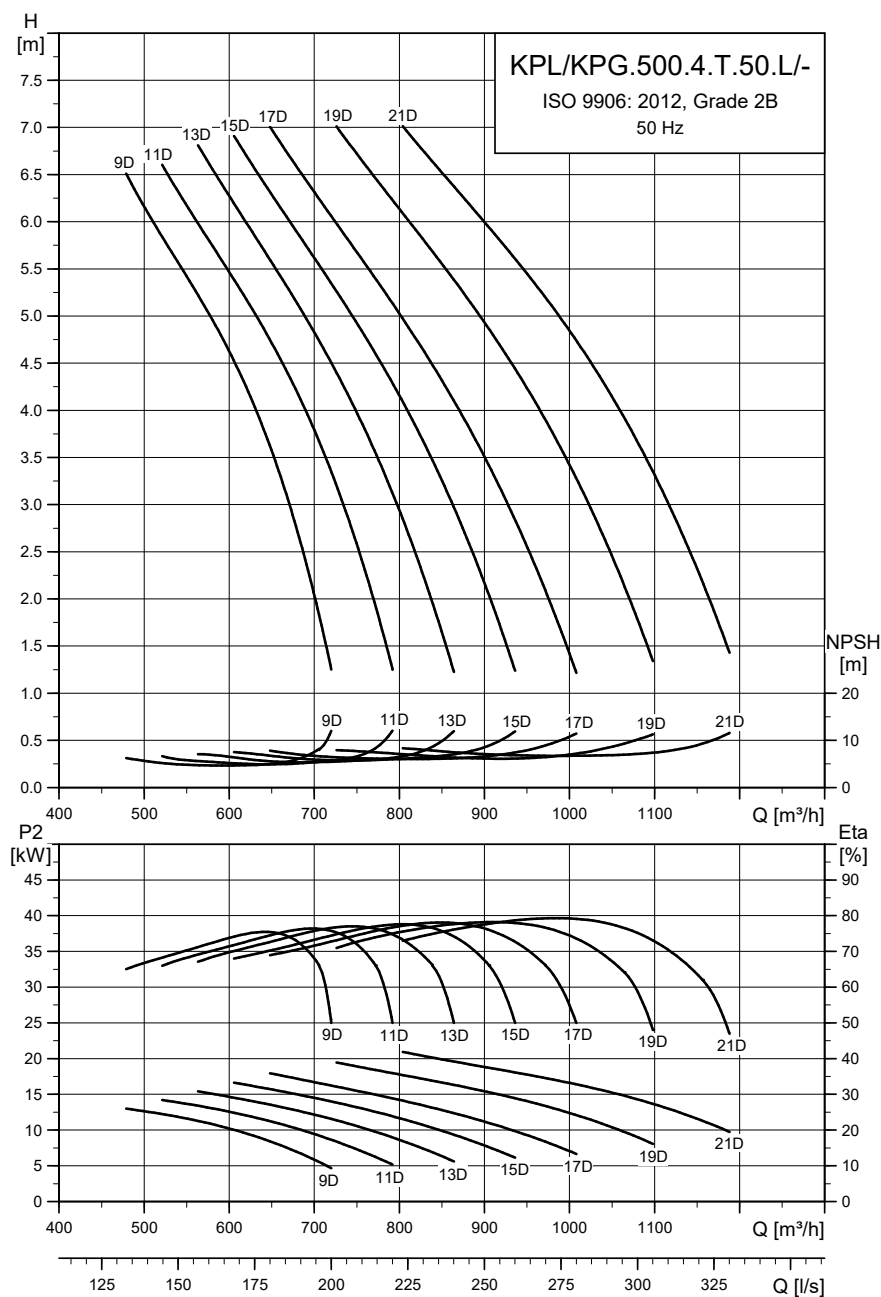
Pump data

Model	No of poles	Discharge column size [mm]	Propeller no	Propeller diam. [mm]	No of blades	Free passage [mm]	Min. flow rate [m³/h]	Moment of inertia [kgm²]	
								Motor	Propeller
KPG.1400.132.14.T.50.9.EB	14	1400	9	950	3	145	5975	75.3	15.7
KPG.1400.132.14.T.50.11.EB	14	1400	11	950	3	155	6866	75.3	15.7
KPG.1400.132.14.T.50.13.EB	14	1400	13	950	3	165	9358	75.3	15.7
KPG.1400.160.14.T.50.9.EB	14	1400	9	950	3	145	5975	132.5	15.7
KPG.1400.160.14.T.50.11.EB	14	1400	11	950	3	155	6866	132.5	15.7
KPG.1400.160.14.T.50.13.EB	14	1400	13	950	3	165	7756	132.5	15.7
KPG.1400.160.14.T.50.15.EB	14	1400	15	950	3	175	9529	132.5	15.7
KPG.1400.160.14.T.50.17.EB	14	1400	17	950	3	185	11266	132.5	15.7
KPG.1400.200.14.T.50.13.EB	14	1400	13	950	3	165	7756	140.4	15.7
KPG.1400.200.14.T.50.15.EB	14	1400	15	950	3	175	8647	140.4	15.7
KPG.1400.200.14.T.50.17.EB	14	1400	17	950	3	185	9538	140.4	15.7

Electrical data

Model	P2 [kW]	min ⁻¹	I _{start} [A]		I _N [A]		η _{motor} [%]			Cos φ			Breakdown torque [Nm]
			380 V	400 V	380 V	400 V	1/2	3/4	1/1	1/2	3/4	1/1	
KPG.1400.132.14.T.50.9.EB	132.0	410.0	1669.7	1586.2	303.6	288.4	90.4	90.5	90.5	57.2	69.4	73.0	6874.7
KPG.1400.132.14.T.50.11.EB	132.0	410.0	1669.7	1586.2	303.6	288.4	90.4	90.5	90.5	57.2	69.4	73.0	6874.7
KPG.1400.132.14.T.50.13.EB	132.0	410.0	1669.7	1586.2	303.6	288.4	90.4	90.5	90.5	57.2	69.4	73.0	6874.7
KPG.1400.160.14.T.50.9.EB	160.0	410.0	2141.6	2034.5	356.9	339.1	91.1	91.2	91.3	56.5	69.2	74.6	8184.2
KPG.1400.160.14.T.50.11.EB	160.0	410.0	2141.6	2034.5	356.9	339.1	91.1	91.2	91.3	56.5	69.2	74.6	8184.2
KPG.1400.160.14.T.50.13.EB	160.0	410.0	2141.6	2034.5	356.9	339.1	91.1	91.2	91.3	56.5	69.2	74.6	8184.2
KPG.1400.160.14.T.50.15.EB	160.0	410.0	2141.6	2034.5	356.9	339.1	91.1	91.2	91.3	56.5	69.2	74.6	8184.2
KPG.1400.160.14.T.50.17.EB	160.0	410.0	2141.6	2034.5	356.9	339.1	91.1	91.2	91.3	56.5	69.2	74.6	8184.2
KPG.1400.200.14.T.50.13.EB	200.0	410.0	2452.7	2330.0	445.9	423.6	90.9	91.0	91.1	58.9	71.2	74.8	10855.7
KPG.1400.200.14.T.50.15.EB	200.0	410.0	2452.7	2330.0	445.9	423.6	90.9	91.0	91.1	58.9	71.2	74.8	10855.7
KPG.1400.200.14.T.50.17.EB	200.0	410.0	2452.7	2330.0	445.9	423.6	90.9	91.0	91.1	58.9	71.2	74.8	10855.7

8.30 KPL/KPG.500.---.4.T.50.L



TM073871

Pump data

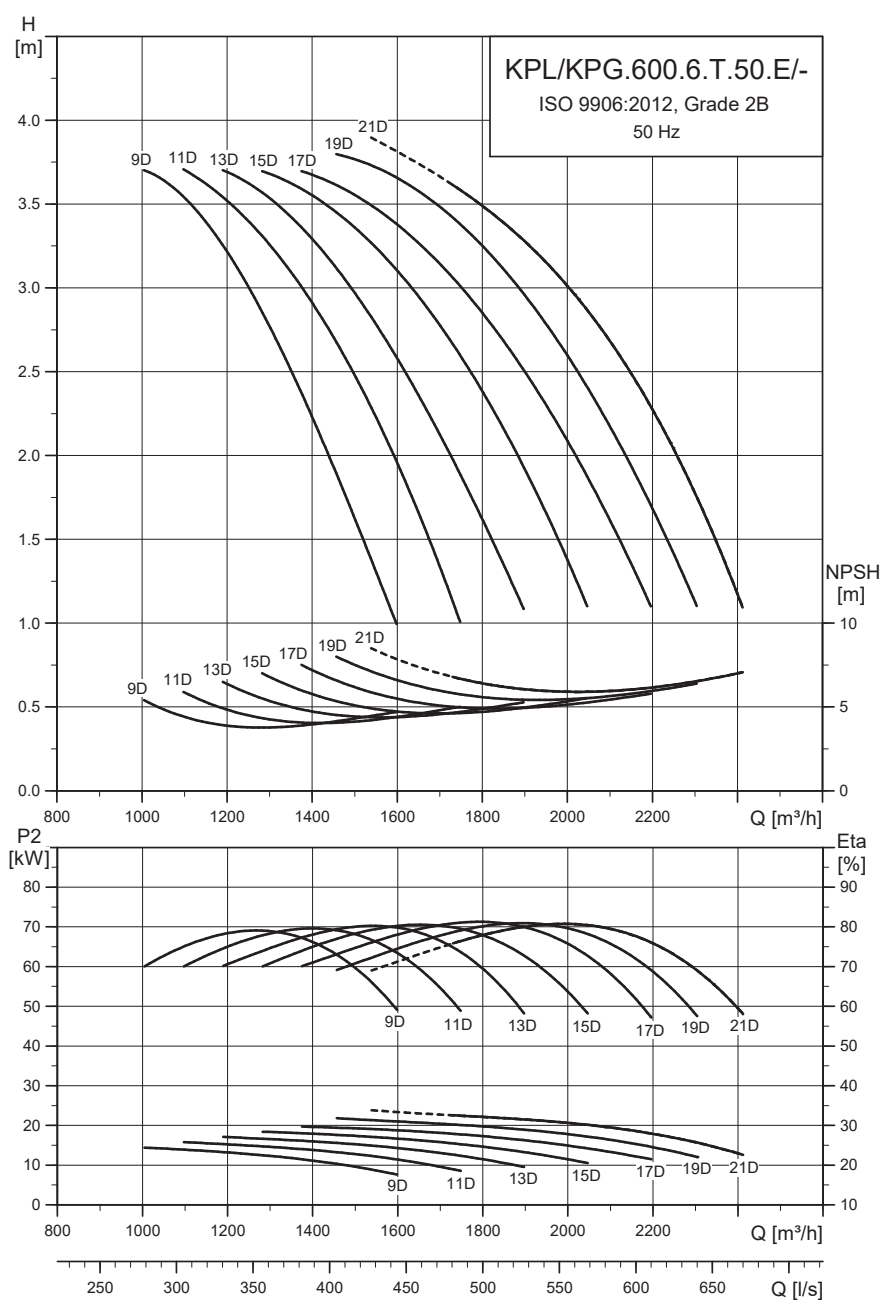
Model	No of poles	Discharge column size [mm]	Propeller no	Propeller diam. [mm]	No of blades	Free passage [mm]	Min. flow rate [m^3/h]	Moment of inertia [kgm^2]	
								Motor	Propeller
KPL/KPG.500.11.4.T.50.9.L	4	500	9	270	4	35	576	0.29	0.04
KPL/KPG.500.11.4.T.50.11.L	4	500	11	270	4	40	674	0.29	0.04
KPL/KPG.500.15.4.T.50.9.L	4	500	9	270	4	35	479	0.39	0.04
KPL/KPG.500.15.4.T.50.11.L	4	500	11	270	4	40	521	0.39	0.04
KPL/KPG.500.15.4.T.50.13.L	4	500	13	270	4	45	563	0.39	0.04
KPL/KPG.500.15.4.T.50.15.L	4	500	15	270	4	48	695	0.39	0.04
KPL/KPG.500.15.4.T.50.17.L	4	500	17	270	4	50	775	0.39	0.04
KPL/KPG.500.19.4.T.50.15.L	4	500	15	270	4	48	606	0.58	0.04
KPL/KPG.500.19.4.T.50.17.L	4	500	17	270	4	50	648	0.58	0.04

Model	No of poles	Discharge column size [mm]	Propeller no	Propeller diam. [mm]	No of blades	Free passage [mm]	Min. flow rate [m³/h]	Moment of inertia [kgm²]	
								Motor	Propeller
KPL/KPG.500.19.4.T.50.19.L	4	500	19	270	4	55	726	0.58	0.04
KPL/KPG.500.19.4.T.50.21.L	4	500	21	270	4	60	884	0.58	0.04
KPL/KPG.500.22.4.T.50.19.L	4	500	19	270	4	55	726	0.66	0.04
KPL/KPG.500.22.4.T.50.21.L	4	500	21	270	4	60	804	0.66	0.04

Electrical data

Model	P2 [kW]	min ⁻¹	I _{start} [A]		I _N [A]		η _{motor} [%]			Cos φ			Breakdown torque [Nm]
			380 V	400 V	380 V	400 V	1/2	3/4	1/1	1/2	3/4	1/1	
KPL/KPG.500.11.4.T.50.9.L	11	1450	131.2	124.6	23.4	22.3	84.5	86.5	87.0	67.0	77.0	82.0	180
KPL/KPG.500.11.4.T.50.11.L	11	1450	131.2	124.6	23.4	22.3	84.5	86.5	87.0	67.0	77.0	82.0	180
KPL/KPG.500.15.4.T.50.9.L	15	1450	175.8	167.0	31.4	29.8	85.5	87.5	88.0	67.5	77.5	82.5	245
KPL/KPG.500.15.4.T.50.11.L	15	1450	175.8	167.0	31.4	29.8	85.5	87.5	88.0	67.5	77.5	82.5	245
KPL/KPG.500.15.4.T.50.13.L	15	1450	175.8	167.0	31.4	29.8	85.5	87.5	88.0	67.5	77.5	82.5	245
KPL/KPG.500.15.4.T.50.15.L	15	1450	175.8	167.0	31.4	29.8	85.5	87.5	88.0	67.5	77.5	82.5	245
KPL/KPG.500.15.4.T.50.17.L	15	1450	175.8	167.0	31.4	29.8	85.5	87.5	88.0	67.5	77.5	82.5	245
KPL/KPG.500.19.4.T.50.15.L	19	1450	221.4	210.3	39.5	37.6	86.0	88.0	88.5	67.5	77.5	82.5	298
KPL/KPG.500.19.4.T.50.17.L	19	1450	221.4	210.3	39.5	37.6	86.0	88.0	88.5	67.5	77.5	82.5	298
KPL/KPG.500.19.4.T.50.19.L	19	1450	221.4	210.3	39.5	37.6	86.0	88.0	88.5	67.5	77.5	82.5	298
KPL/KPG.500.19.4.T.50.21.L	19	1450	221.4	210.3	39.5	37.6	86.0	88.0	88.5	67.5	77.5	82.5	298
KPL/KPG.500.22.4.T.50.19.L	22	1450	251.9	239.3	45.0	42.7	86.5	88.5	89.0	68.5	78.5	83.5	346
KPL/KPG.500.22.4.T.50.21.L	22	1450	251.9	239.3	45.0	42.7	86.5	88.5	89.0	68.5	78.5	83.5	346

8.31 KPL/KPG.600.---.6.T.50.E



TM065034

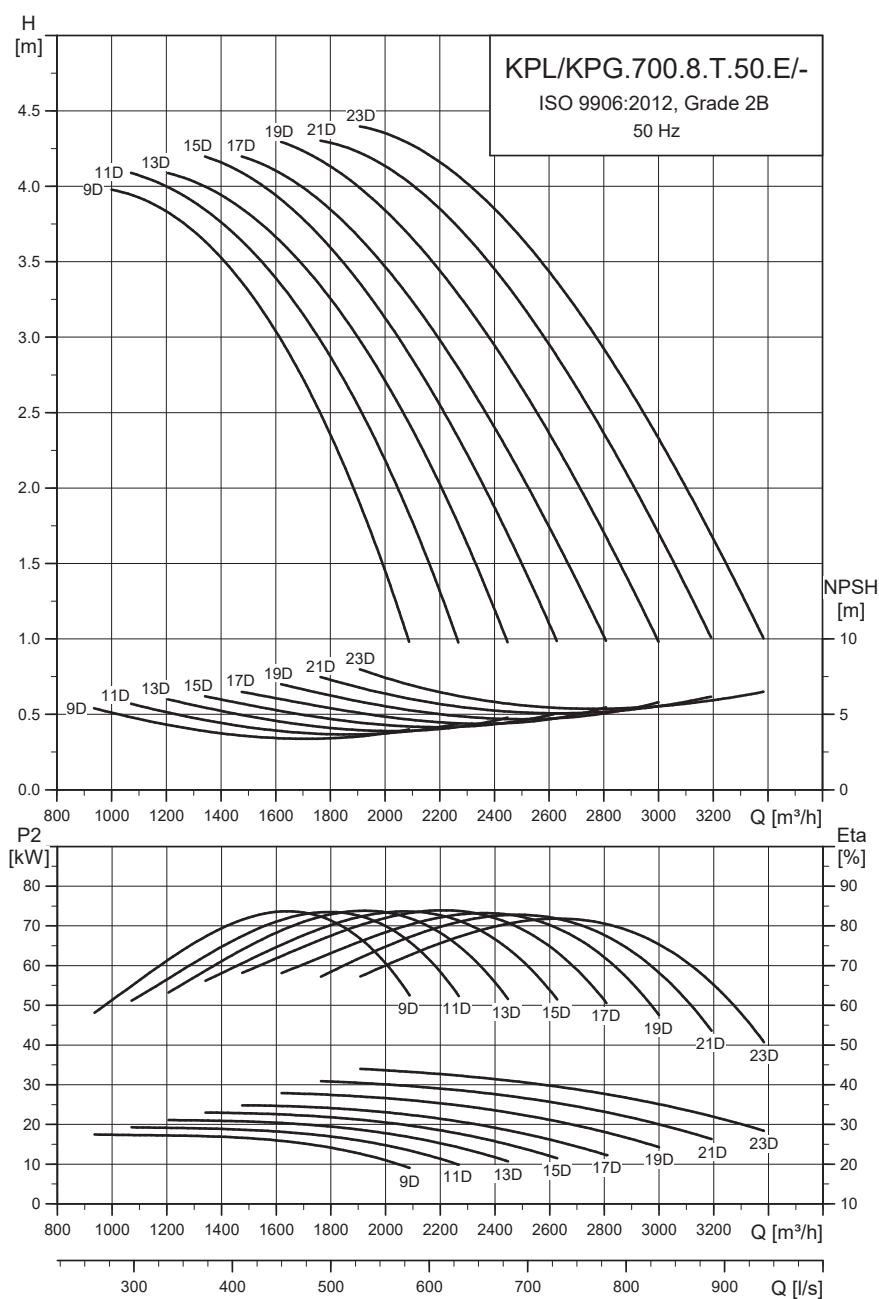
Pump data

Model	No of poles	Discharge column size [mm]	Propeller no	Propeller diam. [mm]	No of blades	Free passage [mm]	Min. flow rate [m³/h]	Moment of inertia [kgm²]	
								Motor	Propeller
KPL/KPG.600.19.6.T.50.9.E	6	600	9	380	3	50	1005	0.61	0.14
KPL/KPG.600.19.6.T.50.11.E	6	600	11	380	3	55	1097	0.61	0.14
KPL/KPG.600.19.6.T.50.13.E	6	600	13	380	3	60	1190	0.61	0.14
KPL/KPG.600.19.6.T.50.15.E	6	600	15	380	3	65	1283	0.61	0.14
KPL/KPG.600.19.6.T.50.17.E	6	600	17	380	3	70	1530	0.61	0.14
KPL/KPG.600.22.6.T.50.15.E	6	600	15	380	3	65	1283	0.67	0.14
KPL/KPG.600.22.6.T.50.17.E	6	600	17	380	3	70	1375	0.67	0.14
KPL/KPG.600.22.6.T.50.19.E	6	600	19	380	3	75	1457	0.67	0.14
KPL/KPG.600.22.6.T.50.21.E	6	600	21	380	3	80	1538	0.67	0.14

Electrical data

Model	P2 [kW]	min ⁻¹	I _{start} [A]		I _N [A]		η _{motor} [%]			Cos φ			Breakdown torque [Nm]
			380 V	400 V	380 V	400 V	1/2	3/4	1/1	1/2	3/4	1/1	
KPL/KPG.600.19.6.T.50.9.E	19.0	950.0	234.0	222.3	41.8	39.7	85.5	87.5	88.0	60.5	72.5	78.5	470.0
KPL/KPG.600.19.6.T.50.11.E	19.0	950.0	234.0	222.3	41.8	39.7	85.5	87.5	88.0	60.5	72.5	78.5	470.0
KPL/KPG.600.19.6.T.50.13.E	19.0	950.0	234.0	222.3	41.8	39.7	85.5	87.5	88.0	60.5	72.5	78.5	470.0
KPL/KPG.600.19.6.T.50.15.E	19.0	950.0	234.0	222.3	41.8	39.7	85.5	87.5	88.0	60.5	72.5	78.5	470.0
KPL/KPG.600.19.6.T.50.17.E	19.0	950.0	234.0	222.3	41.8	39.7	85.5	87.5	88.0	60.5	72.5	78.5	470.0
KPL/KPG.600.22.6.T.50.15.E	22.0	950.0	266.1	252.8	47.5	45.1	86.0	88.0	88.5	62.0	73.5	79.5	545.0
KPL/KPG.600.22.6.T.50.17.E	22.0	950.0	266.1	252.8	47.5	45.1	86.0	88.0	88.5	62.0	73.5	79.5	545.0
KPL/KPG.600.22.6.T.50.19.E	22.0	950.0	266.1	252.8	47.5	45.1	86.0	88.0	88.5	62.0	73.5	79.5	545.0
KPL/KPG.600.22.6.T.50.21.E	22.0	950.0	266.1	252.8	47.5	45.1	86.0	88.0	88.5	62.0	73.5	79.5	545.0

8.32 KPL/KPG.700.---.8.T.50.E



TM065033

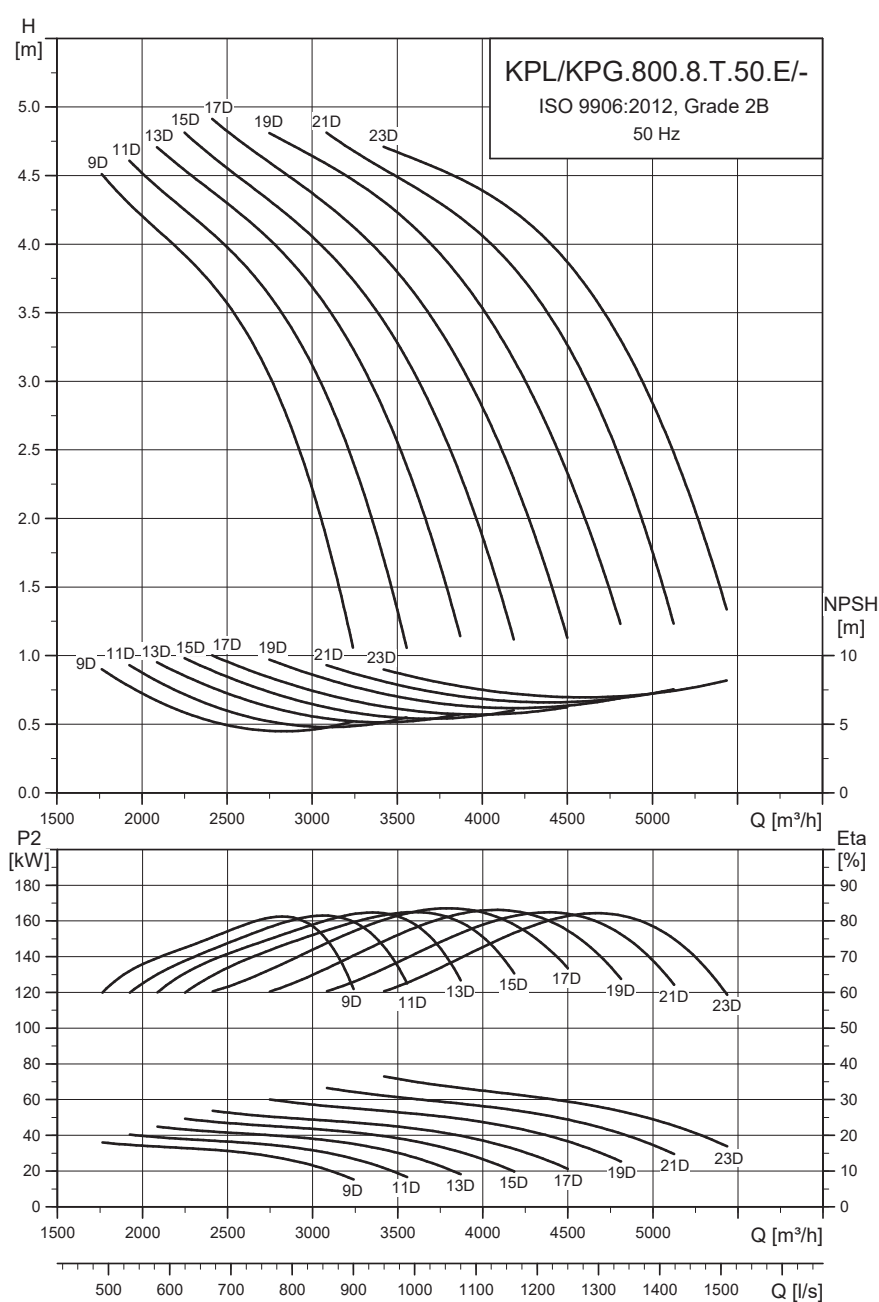
Pump data

Model	No of poles	Discharge column size [mm]	Propeller no	Propeller diam. [mm]	No of blades	Free passage [mm]	Min. flow rate [m³/h]	Moment of inertia [kgm²]	
								Motor	Propeller
KPL/KPG.700.22.8.T.50.9.E	8	700	9	470	3	70	936	4.90	0.48
KPL/KPG.700.22.8.T.50.11.E	8	700	11	470	3	75	1071	4.90	0.48
KPL/KPG.700.22.8.T.50.13.E	8	700	13	470	3	80	1206	4.90	0.48
KPL/KPG.700.22.8.T.50.15.E	8	700	15	470	3	90	1625	4.90	0.48
KPL/KPG.700.22.8.T.50.17.E	8	700	17	470	3	100	1980	4.90	0.48
KPL/KPG.700.30.8.T.50.13.E	8	700	13	470	3	80	1206	5.70	0.48
KPL/KPG.700.30.8.T.50.15.E	8	700	15	470	3	90	1341	5.70	0.48
KPL/KPG.700.30.8.T.50.17.E	8	700	17	470	3	100	1476	5.70	0.48
KPL/KPG.700.30.8.T.50.19.E	8	700	19	470	3	110	1620	5.70	0.48
KPL/KPG.700.30.8.T.50.21.E	8	700	21	470	3	120	2030	5.70	0.48
KPL/KPG.700.37.8.T.50.21.E	8	700	21	470	3	120	1764	6.30	0.48
KPL/KPG.700.37.8.T.50.23.E	8	700	23	470	3	125	1908	6.30	0.48

Electrical data

Model	P2 [kW]	min ⁻¹	I _{start} [A]		I _N [A]		η _{motor} [%]			Cos φ			Breakdown torque [Nm]
			380 V	400 V	380 V	400 V	1/2	3/4	1/1	1/2	3/4	1/1	
KPL/KPG.700.22.8.T.50.9.E	22.0	720.0	274.7	260.9	49.9	47.4	85.5	87.3	87.5	59.5	71.5	76.5	638.0
KPL/KPG.700.22.8.T.50.11.E	22.0	720.0	274.7	260.9	49.9	47.4	85.5	87.3	87.5	59.5	71.5	76.5	638.0
KPL/KPG.700.22.8.T.50.13.E	22.0	720.0	274.7	260.9	49.9	47.4	85.5	87.3	87.5	59.5	71.5	76.5	638.0
KPL/KPG.700.22.8.T.50.15.E	22.0	720.0	274.7	260.9	49.9	47.4	85.5	87.3	87.5	59.5	71.5	76.5	638.0
KPL/KPG.700.22.8.T.50.17.E	22.0	720.0	274.7	260.9	49.9	47.4	85.5	87.3	87.5	59.5	71.5	76.5	638.0
KPL/KPG.700.30.8.T.50.13.E	30.0	720.0	370.0	351.5	67.3	63.9	86.0	87.8	88.0	60.0	72.0	77.0	869.0
KPL/KPG.700.30.8.T.50.15.E	30.0	720.0	370.0	351.5	67.3	63.9	86.0	87.8	88.0	60.0	72.0	77.0	869.0
KPL/KPG.700.30.8.T.50.17.E	30.0	720.0	370.0	351.5	67.3	63.9	86.0	87.8	88.0	60.0	72.0	77.0	869.0
KPL/KPG.700.30.8.T.50.19.E	30.0	720.0	370.0	351.5	67.3	63.9	86.0	87.8	88.0	60.0	72.0	77.0	869.0
KPL/KPG.700.30.8.T.50.21.E	30.0	720.0	370.0	351.5	67.3	63.9	86.0	87.8	88.0	60.0	72.0	77.0	869.0
KPL/KPG.700.37.8.T.50.21.E	37.0	720.0	453.7	431.0	82.5	78.4	86.5	88.3	88.5	60.0	72.0	77.0	1071.0
KPL/KPG.700.37.8.T.50.23.E	37.0	720.0	453.7	431.0	82.5	78.4	86.5	88.3	88.5	60.0	72.0	77.0	1071.0

8.33 KPL/KPG.800.---.8.T.50.E



TM065032

Pump data

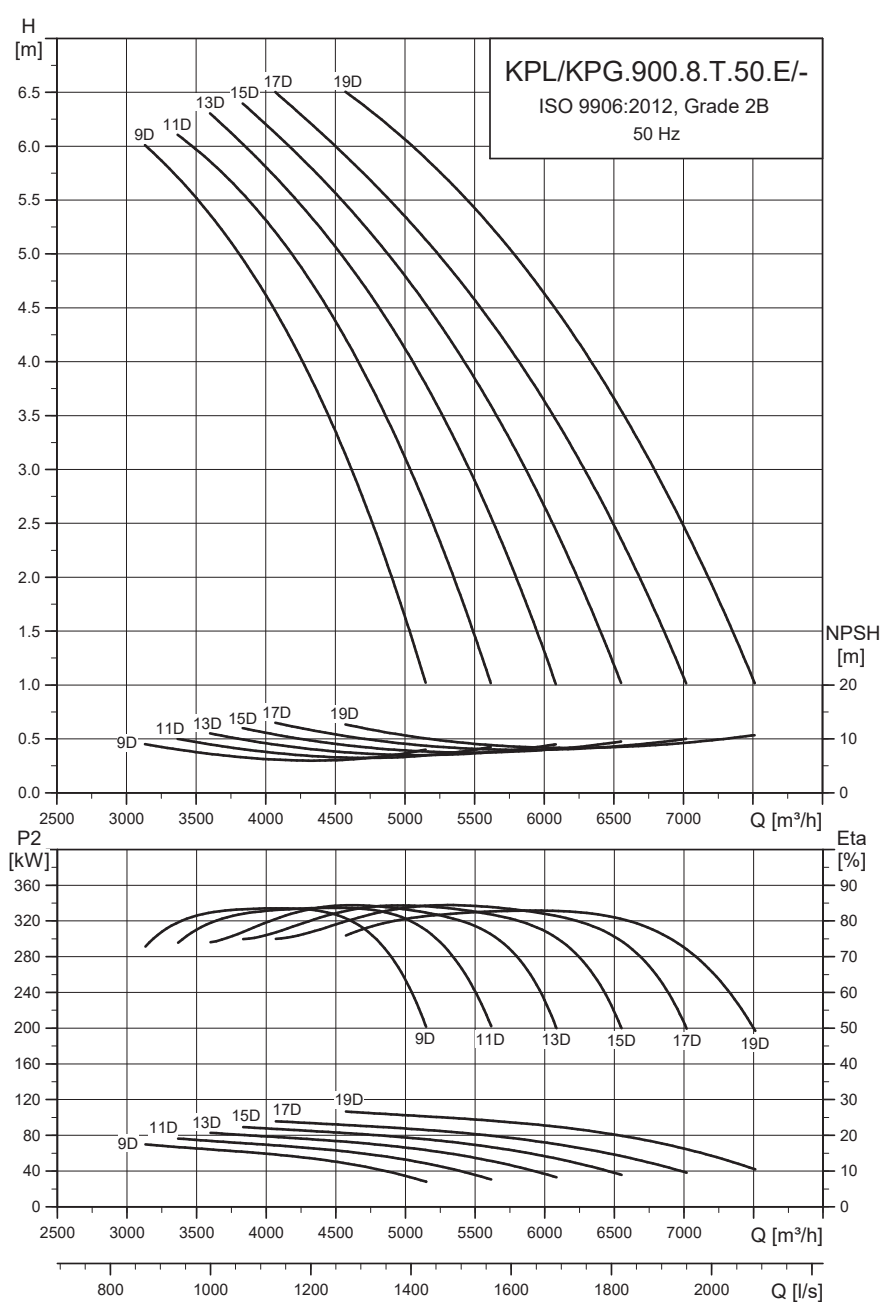
Model	No of poles	Discharge column size [mm]	Propeller no	Propeller diam. [mm]	No of blades	Free passage [mm]	Min. flow rate [m³/h]	Moment of inertia [kgm²]	
								Motor	Propeller
KPL/KPG.800.37.8.T.50.9.E	8	800	9	540	3	80	1764	6.30	0.85
KPL/KPG.800.37.8.T.50.11.E	8	800	11	540	3	85	2322	6.30	0.85
KPL/KPG.800.37.8.T.50.13.E	8	800	13	540	3	90	3142	6.30	0.85
KPL/KPG.800.45.8.T.50.11.E	8	800	11	540	3	85	1926	7.20	0.85
KPL/KPG.800.45.8.T.50.13.E	8	800	13	540	3	90	2088	7.20	0.85
KPL/KPG.800.45.8.T.50.15.E	8	800	15	540	3	100	2718	7.20	0.85
KPL/KPG.800.45.8.T.50.17.E	8	800	17	540	3	110	3312	7.20	0.85
KPL/KPG.800.55.8.T.50.15.E	8	800	15	540	3	100	2250	15.50	0.85
KPL/KPG.800.55.8.T.50.17.E	8	800	17	540	3	110	2412	15.50	0.85
KPL/KPG.800.55.8.T.50.19.E	8	800	19	540	3	120	2748	15.50	0.85

Model	No of poles	Discharge column size [mm]	Propeller no	Propeller diam. [mm]	No of blades	Free passage [mm]	Min. flow rate [m³/h]	Moment of inertia [kgm²]	
								Motor	Propeller
KPL/KPG.800.55.8.T.50.21.E	8	800	21	540	3	130	3912	15.50	0.85
KPL/KPG.800.75.8.T.50.19.E	8	800	19	540	3	120	2748	18.40	0.85
KPL/KPG.800.75.8.T.50.21.E	8	800	21	540	3	130	3084	18.40	0.85
KPL/KPG.800.75.8.T.50.23.E	8	800	23	540	3	135	3420	18.40	0.85

Electrical data

Model	P2 [kW]	min ⁻¹	I _{start} [A]		I _N [A]		η _{motor} [%]			Cos φ			Breakdown torque [Nm]
			380 V	400 V	380 V	400 V	1/2	3/4	1/1	1/2	3/4	1/1	
KPL/KPG.800.37.8.T.50.9.E	37.0	720.0	453.7	431.0	82.5	78.4	86.5	88.3	88.5	60.0	72.0	77.0	1071.0
KPL/KPG.800.37.8.T.50.11.E	37.0	720.0	453.7	431.0	82.5	78.4	86.5	88.3	88.5	60.0	72.0	77.0	1071.0
KPL/KPG.800.37.8.T.50.13.E	37.0	720.0	453.7	431.0	82.5	78.4	86.5	88.3	88.5	60.0	72.0	77.0	1071.0
KPL/KPG.800.45.8.T.50.11.E	45.0	720.0	545.2	517.9	99.1	94.2	87.0	88.8	89.0	60.5	72.5	77.5	1245.0
KPL/KPG.800.45.8.T.50.13.E	45.0	720.0	545.2	517.9	99.1	94.2	87.0	88.8	89.0	60.5	72.5	77.5	1245.0
KPL/KPG.800.45.8.T.50.15.E	45.0	720.0	545.2	517.9	99.1	94.2	87.0	88.8	89.0	60.5	72.5	77.5	1245.0
KPL/KPG.800.45.8.T.50.17.E	45.0	720.0	545.2	517.9	99.1	94.2	87.0	88.8	89.0	60.5	72.5	77.5	1245.0
KPL/KPG.800.55.8.T.50.15.E	55.0	720.0	654.2	621.5	118.9	113.0	87.5	89.3	89.5	61.5	73.5	78.5	1520.0
KPL/KPG.800.55.8.T.50.17.E	55.0	720.0	654.2	621.5	118.9	113.0	87.5	89.3	89.5	61.5	73.5	78.5	1520.0
KPL/KPG.800.55.8.T.50.19.E	55.0	720.0	654.2	621.5	118.9	113.0	87.5	89.3	89.5	61.5	73.5	78.5	1520.0
KPL/KPG.800.55.8.T.50.21.E	55.0	720.0	654.2	621.5	118.9	113.0	87.5	89.3	89.5	61.5	73.5	78.5	1520.0
KPL/KPG.800.75.8.T.50.19.E	75.0	720.0	881.5	837.4	160.3	152.3	88.0	89.8	90.0	62.5	74.0	79.0	2073.0
KPL/KPG.800.75.8.T.50.21.E	75.0	720.0	881.5	837.4	160.3	152.3	88.0	89.8	90.0	62.5	74.0	79.0	2073.0
KPL/KPG.800.75.8.T.50.23.E	75.0	720.0	881.5	837.4	160.3	152.3	88.0	89.8	90.0	62.5	74.0	79.0	2073.0

8.34 KPL/KPG.900.---.8.T.50.E



TM065031

Pump data

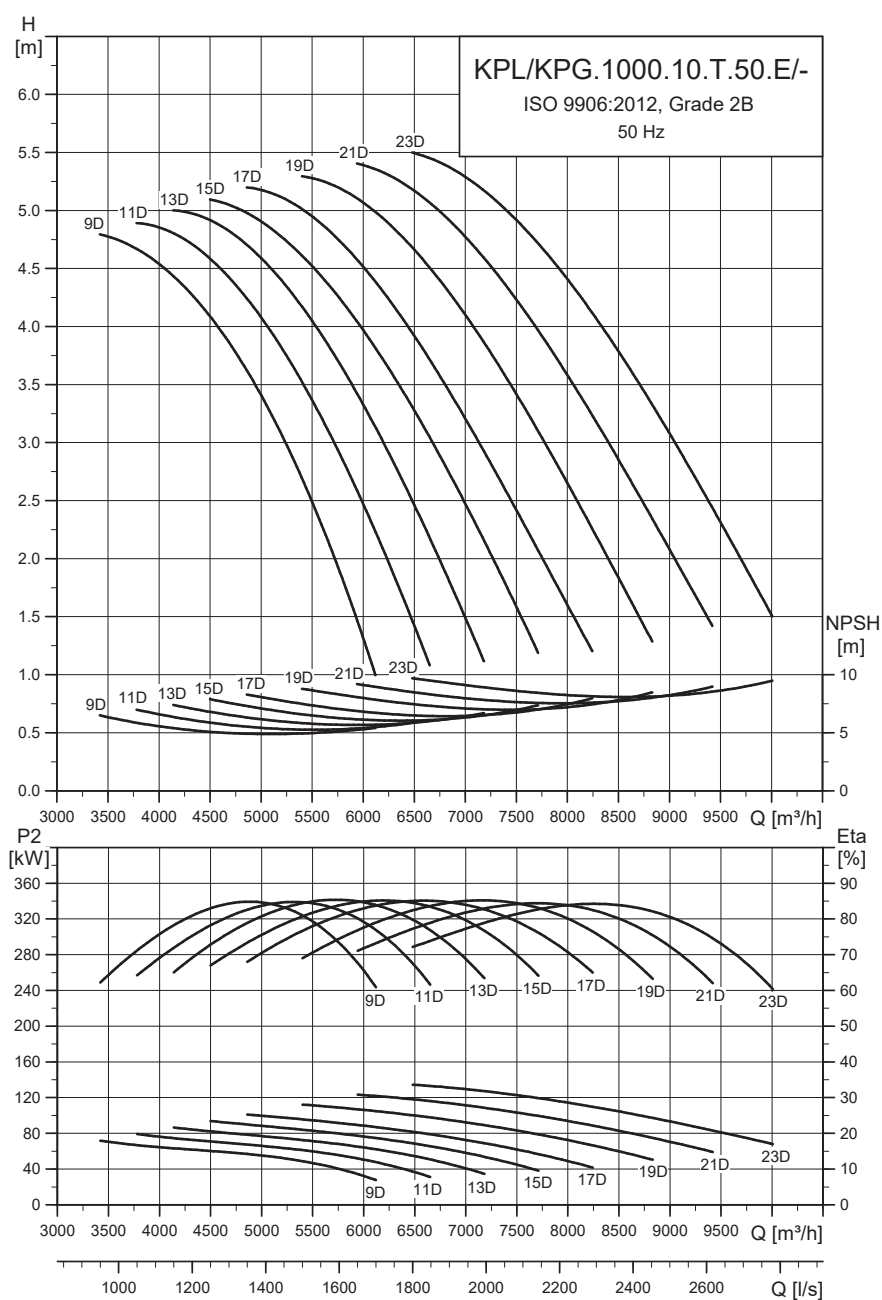
Model	No of poles	Discharge column size [mm]	Propeller no	Propeller diam. [mm]	No of blades	Free passage [mm]	Min. flow rate [m³/h]	Moment of inertia [kgm²]	
								Motor	Propeller
KPL/KPG.900.55.8.T.50.9.E	8	900	9	620	3	90	4150	15.50	1.93
KPL/KPG.900.75.8.T.50.9.E	8	900	9	620	3	90	3132	18.40	1.93
KPL/KPG.900.75.8.T.50.11.E	8	900	11	620	3	95	3366	18.40	1.93
KPL/KPG.900.75.8.T.50.13.E	8	900	13	620	3	105	4200	18.40	1.93
KPL/KPG.900.75.8.T.50.15.E	8	900	15	620	3	115	5260	18.40	1.93
KPL/KPG.900.90.8.T.50.11.E	8	900	11	620	3	95	3366	22.10	1.93
KPL/KPG.900.90.8.T.50.13.E	8	900	13	620	3	105	3600	22.10	1.93
KPL/KPG.900.90.8.T.50.15.E	8	900	15	620	3	115	3834	22.10	1.93

Model	No of poles	Discharge column size [mm]	Propeller no	Propeller diam. [mm]	No of blades	Free passage [mm]	Min. flow rate [m³/h]	Moment of inertia [kgm²]	
								Motor	Propeller
KPL/KPG.900.90.8.T.50.17.E	8	900	17	620	3	125	4662	22.10	1.93
KPL/KPG.900.110.8.T.50.15.E	8	900	15	620	3	115	3834	38.10	1.93
KPL/KPG.900.110.8.T.50.17.E	8	900	17	620	3	125	4068	38.10	1.93
KPL/KPG.900.110.8.T.50.19.E	8	900	19	620	3	135	4572	38.10	1.93

Electrical data

Model	P2 [kW]	min ⁻¹	I _{start} [A]		I _N [A]		η _{motor} [%]			Cos φ			Breakdown torque [Nm]
			380 V	400 V	380 V	400 V	1/2	3/4	1/1	1/2	3/4	1/1	
KPL/KPG.900.55.8.T.50.9.E	55.0	720.0	654.2	621.5	118.9	113.0	87.5	89.3	89.5	61.5	73.5	78.5	1520.0
KPL/KPG.900.75.8.T.50.9.E	75.0	720.0	881.5	837.4	160.3	152.3	88.0	89.8	90.0	62.5	74.0	79.0	2073.0
KPL/KPG.900.75.8.T.50.11.E	75.0	720.0	881.5	837.4	160.3	152.3	88.0	89.8	90.0	62.5	74.0	79.0	2073.0
KPL/KPG.900.75.8.T.50.13.E	75.0	720.0	881.5	837.4	160.3	152.3	88.0	89.8	90.0	62.5	74.0	79.0	2073.0
KPL/KPG.900.75.8.T.50.15.E	75.0	720.0	881.5	837.4	160.3	152.3	88.0	89.8	90.0	62.5	74.0	79.0	2073.0
KPL/KPG.900.90.8.T.50.11.E	90.0	720.0	1048.8	996.4	190.7	181.2	88.2	90.0	90.2	64.0	74.5	79.5	2607.0
KPL/KPG.900.90.8.T.50.13.E	90.0	720.0	1048.8	996.4	190.7	181.2	88.2	90.0	90.2	64.0	74.5	79.5	2607.0
KPL/KPG.900.90.8.T.50.15.E	90.0	720.0	1048.8	996.4	190.7	181.2	88.2	90.0	90.2	64.0	74.5	79.5	2607.0
KPL/KPG.900.90.8.T.50.17.E	90.0	720.0	1048.8	996.4	190.7	181.2	88.2	90.0	90.2	64.0	74.5	79.5	2607.0
KPL/KPG.900.110.8.T.50.15.E	110.0	720.0	1254.8	1192.1	228.2	216.7	89.0	90.8	91.0	65.5	75.5	80.5	2861.2
KPL/KPG.900.110.8.T.50.17.E	110.0	720.0	1254.8	1192.1	228.2	216.7	89.0	90.8	91.0	65.5	75.5	80.5	2861.2
KPL/KPG.900.110.8.T.50.19.E	110.0	720.0	1254.8	1192.1	228.2	216.7	89.0	90.8	91.0	65.5	75.5	80.5	2861.2

8.35 KPL/KPG.1000.---.10.T.50.E



TM065030

Pump data

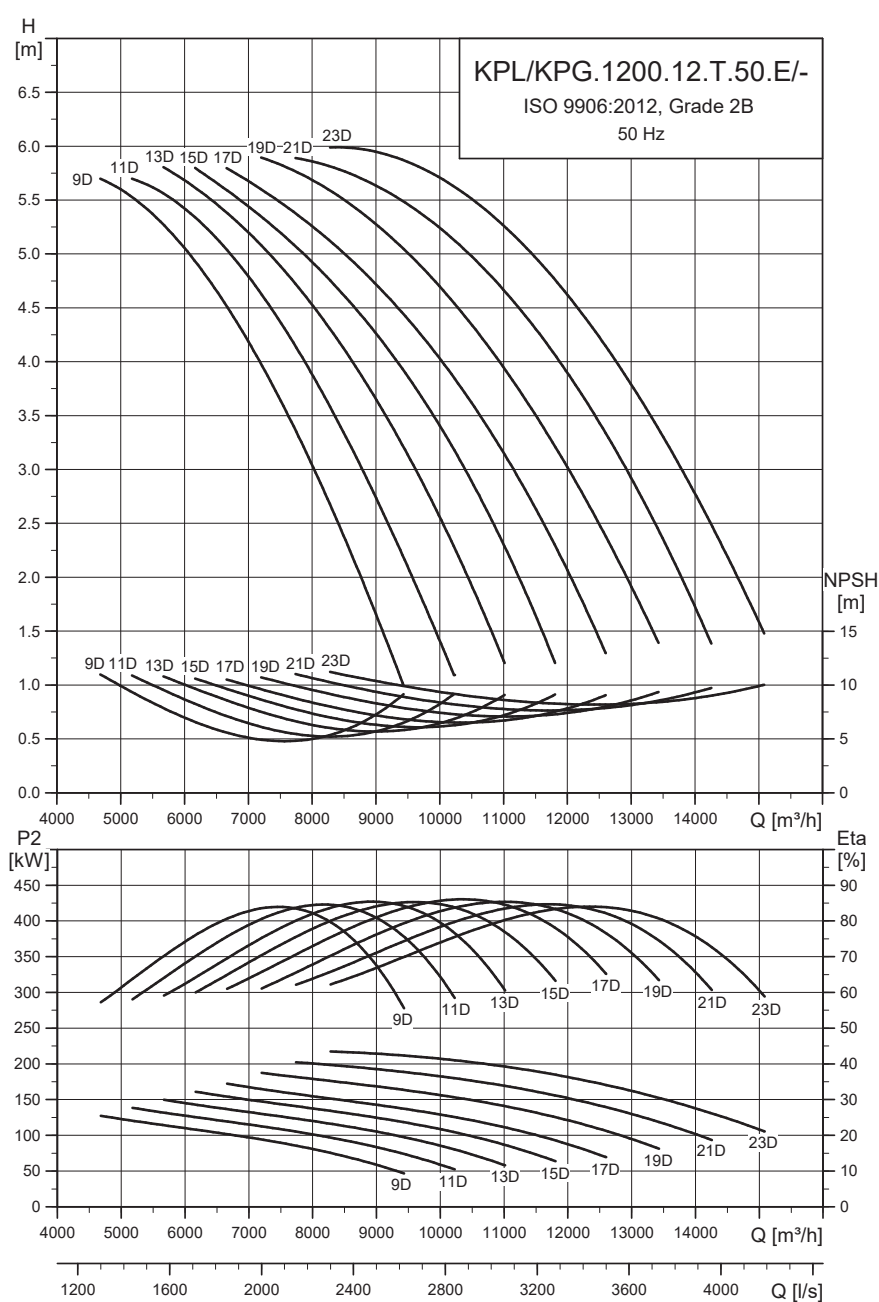
Model	No of poles	Discharge column size [mm]	Propeller no	Propeller diam. [mm]	No of blades	Free passage [mm]	Min. flow rate [m³/h]	Moment of inertia [kgm²]	
								Motor	Propeller
KPL/KPG.1000.75.10.T.50.9.E	10	1000	9	700	3	100	3420	32.10	3.15
KPL/KPG.1000.75.10.T.50.11.E	10	1000	11	700	3	110	3780	32.10	3.15
KPL/KPG.1000.75.10.T.50.13.E	10	1000	13	700	3	120	5310	32.10	3.15
KPL/KPG.1000.90.10.T.50.11.E	10	1000	11	700	3	110	3780	39.30	3.15
KPL/KPG.1000.90.10.T.50.13.E	10	1000	13	700	3	120	4140	39.30	3.15
KPL/KPG.1000.90.10.T.50.15.E	10	1000	15	700	3	130	4500	39.30	3.15
KPL/KPG.1000.90.10.T.50.17.E	10	1000	17	700	3	140	5690	39.30	3.15
KPL/KPG.1000.90.10.T.50.19.E	10	1000	19	700	3	150	7164	39.30	3.15
KPL/KPG.1000.132.10.T.50.15.E	10	1000	15	700	3	130	4500	44.00	3.15

Model	No of poles	Discharge column size [mm]	Propeller no	Propeller diam. [mm]	No of blades	Free passage [mm]	Min. flow rate [m³/h]	Moment of inertia [kgm²]	
								Motor	Propeller
KPL/KPG.1000.132.10.T.50.17.E	10	1000	17	700	3	140	4860	44.00	3.15
KPL/KPG.1000.132.10.T.50.19.E	10	1000	19	700	3	150	5400	44.00	3.15
KPL/KPG.1000.132.10.T.50.21.E	10	1000	21	700	3	160	5940	44.00	3.15
KPL/KPG.1000.132.10.T.50.23.E	10	1000	23	700	3	170	6480	44.00	3.15

Electrical data

Model	P2 [kW]	min ⁻¹	I _{start} [A]		I _N [A]		η _{motor} [%]			Cos φ			Breakdown torque [Nm]
			380 V	400 V	380 V	400 V	1/2	3/4	1/1	1/2	3/4	1/1	
KPL/KPG.1000.75.10.T.50.9.E	75.0	580.0	836.9	795.0	167.4	159.0	87.0	88.7	89.0	61.5	71.5	76.5	2468.0
KPL/KPG.1000.75.10.T.50.11.E	75.0	580.0	836.9	795.0	167.4	159.0	87.0	88.7	89.0	61.5	71.5	76.5	2468.0
KPL/KPG.1000.75.10.T.50.13.E	75.0	580.0	836.9	795.0	167.4	159.0	87.0	88.7	89.0	61.5	71.5	76.5	2468.0
KPL/KPG.1000.90.10.T.50.11.E	90.0	580.0	944.2	897.0	171.7	163.1	88.7	88.9	89.0	89.3	87.5	89.5	3196.4
KPL/KPG.1000.90.10.T.50.13.E	90.0	580.0	944.2	897.0	171.7	163.1	88.7	88.9	89.0	89.3	87.5	89.5	3196.4
KPL/KPG.1000.90.10.T.50.15.E	90.0	580.0	944.2	897.0	171.7	163.1	88.7	88.9	89.0	89.3	87.5	89.5	3196.4
KPL/KPG.1000.90.10.T.50.17.E	90.0	580.0	944.2	897.0	171.7	163.1	88.7	88.9	89.0	89.3	87.5	89.5	3196.4
KPL/KPG.1000.90.10.T.50.19.E	90.0	580.0	944.2	897.0	171.7	163.1	88.7	88.9	89.0	89.3	87.5	89.5	3196.4
KPL/KPG.1000.132.10.T.50.15.E	132.0	580.0	1439.0	1367.1	287.8	273.4	90.3	90.4	90.5	60.6	71.6	77.0	4240.6
KPL/KPG.1000.132.10.T.50.17.E	132.0	580.0	1439.0	1367.1	287.8	273.4	90.3	90.4	90.5	60.6	71.6	77.0	4240.6
KPL/KPG.1000.132.10.T.50.19.E	132.0	580.0	1439.0	1367.1	287.8	273.4	90.3	90.4	90.5	60.6	71.6	77.0	4240.6
KPL/KPG.1000.132.10.T.50.21.E	132.0	580.0	1439.0	1367.1	287.8	273.4	90.3	90.4	90.5	60.6	71.6	77.0	4240.6
KPL/KPG.1000.132.10.T.50.23.E	132.0	580.0	1439.0	1367.1	287.8	273.4	90.3	90.4	90.5	60.6	71.6	77.0	4240.6

8.36 KPL/KPG.1200.---.12.T.50.E



TM065029

Pump data

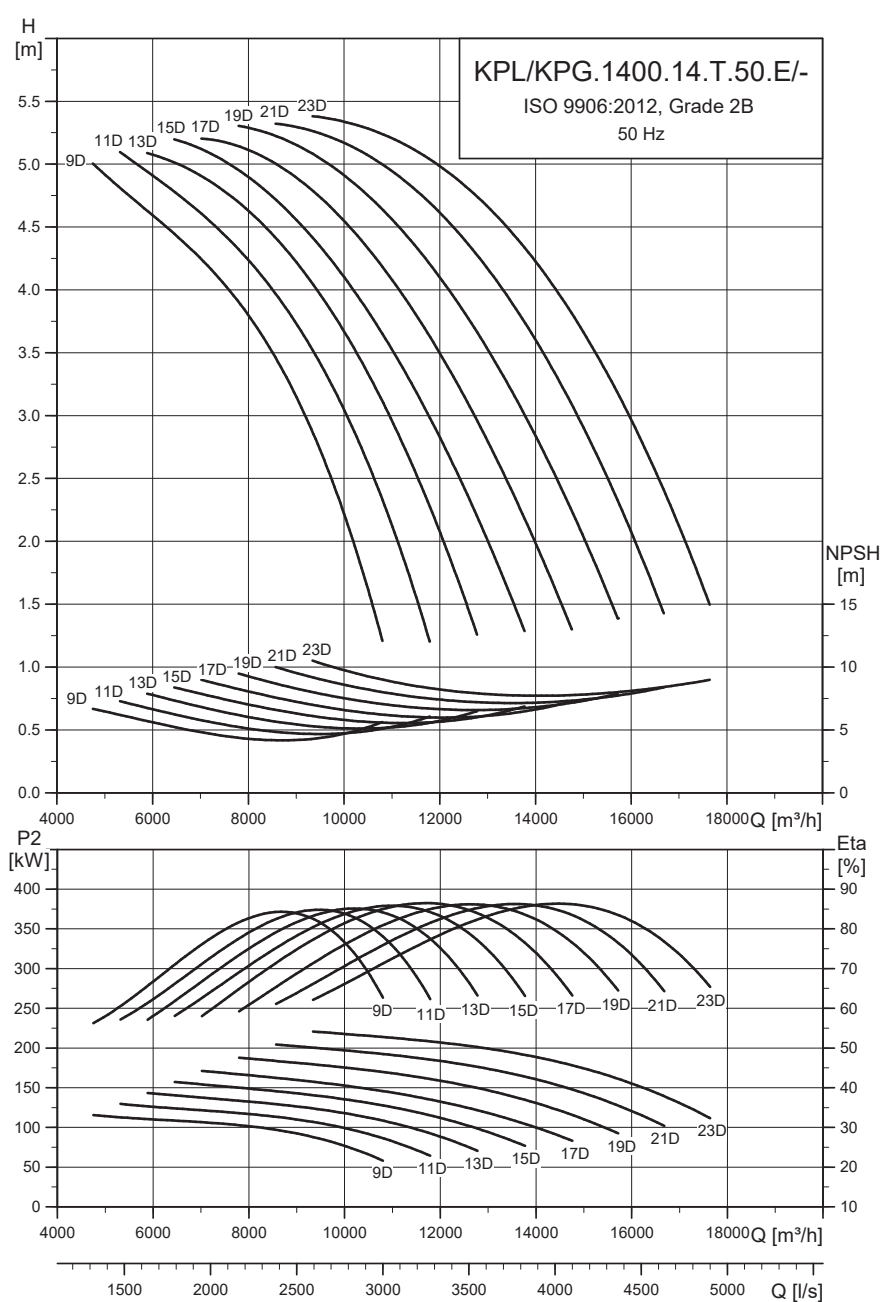
Model	No of poles	Discharge column size [mm]	Propeller no	Propeller diam. [mm]	No of blades	Free passage [mm]	Min. flow rate [m³/h]	Moment of inertia [kgm²]	
								Motor	Propeller
KPL/KPG.1200.132.12.T.50.9.E	12	1200	9	860	3	110	4680	51.20	7.98
KPL/KPG.1200.132.12.T.50.11.E	12	1200	11	860	3	120	5175	51.20	7.98
KPL/KPG.1200.132.12.T.50.13.E	12	1200	13	860	3	135	6858	51.20	7.98
KPL/KPG.1200.132.12.T.50.15.E	12	1200	15	860	3	150	8522	51.20	7.98
KPL/KPG.1200.160.12.T.50.11.E	12	1200	11	860	3	120	5175	79.30	7.98
KPL/KPG.1200.160.12.T.50.13.E	12	1200	13	860	3	135	5670	79.30	7.98
KPL/KPG.1200.160.12.T.50.15.E	12	1200	15	860	3	150	6165	79.30	7.98
KPL/KPG.1200.160.12.T.50.17.E	12	1200	17	860	3	165	8100	79.30	7.98
KPL/KPG.1200.160.12.T.50.19.E	12	1200	19	860	3	180	7200	79.30	7.98
KPL/KPG.1200.160.12.T.50.21.E	12	1200	21	860	3	195	11400	79.30	7.98
KPL/KPG.1200.200.12.T.50.15.E	12	1200	15	860	3	150	6165	116.90	7.98
KPL/KPG.1200.200.12.T.50.17.E	12	1200	17	860	3	165	6660	116.90	7.98

Model	No of poles	Discharge column size [mm]	Propeller no	Propeller diam. [mm]	No of blades	Free passage [mm]	Min. flow rate [m³/h]	Moment of inertia [kgm²]	
								Motor	Propeller
KPL/KPG.1200.200.12.T.50.19.E	12	1200	19	860	3	180	7200	116.90	7.98
KPL/KPG.1200.200.12.T.50.21.E	12	1200	21	860	3	195	7740	116.90	7.98
KPL/KPG.1200.200.12.T.50.23.E	12	1200	23	860	3	210	9900	116.90	7.98
KPL/KPG.1200.220.12.T.50.19.E	12	1200	19	860	3	180	7200	137.60	7.98
KPL/KPG.1200.220.12.T.50.21.E	12	1200	21	860	3	195	7740	137.60	7.98
KPL/KPG.1200.220.12.T.50.23.E	12	1200	23	860	3	210	8280	137.60	7.98

Electrical data

Model	P2 [kW]	min ⁻¹	I _{start} [A]		I _N [A]		η _{motor} [%]			Cos φ			Breakdown torque [Nm]
			380 V	400 V	380 V	400 V	1/2	3/4	1/1	1/2	3/4	1/1	
KPL/KPG.1200.132.12.T.50.9.E	132.0	485.0	2071.7	1968.2	291.8	277.2	91.3	91.4	91.4	60.3	70.3	75.2	6681.6
KPL/KPG.1200.132.12.T.50.11.E	132.0	485.0	2071.7	1968.2	291.8	277.2	91.3	91.4	91.4	60.3	70.3	75.2	6681.6
KPL/KPG.1200.132.12.T.50.13.E	132.0	485.0	2071.7	1968.2	291.8	277.2	91.3	91.4	91.4	60.3	70.3	75.2	6681.6
KPL/KPG.1200.132.12.T.50.15.E	132.0	485.0	2071.7	1968.2	291.8	277.2	91.3	91.4	91.4	60.3	70.3	75.2	6681.6
KPL/KPG.1200.160.12.T.50.11.E	160.0	485.0	2111.4	2005.8	351.9	334.3	91.4	91.5	91.5	60.6	70.6	75.5	8450.3
KPL/KPG.1200.160.12.T.50.13.E	160.0	485.0	2111.4	2005.8	351.9	334.3	91.4	91.5	91.5	60.6	70.6	75.5	8450.3
KPL/KPG.1200.160.12.T.50.15.E	160.0	485.0	2111.4	2005.8	351.9	334.3	91.4	91.5	91.5	60.6	70.6	75.5	8450.3
KPL/KPG.1200.160.12.T.50.17.E	160.0	485.0	2111.4	2005.8	351.9	334.3	91.4	91.5	91.5	60.6	70.6	75.5	8450.3
KPL/KPG.1200.160.12.T.50.19.E	160.0	485.0	2111.4	2005.8	351.9	334.3	91.4	91.5	91.5	60.6	70.6	75.5	8450.3
KPL/KPG.1200.160.12.T.50.21.E	160.0	485.0	2111.4	2005.8	351.9	334.3	91.4	91.5	91.5	60.6	70.6	75.5	8450.3
KPL/KPG.1200.200.12.T.50.15.E	200.0	485.0	2523.5	2397.3	435.1	413.3	91.8	91.9	91.9	63.2	74.7	76.0	8764.8
KPL/KPG.1200.200.12.T.50.17.E	200.0	485.0	2523.5	2397.3	435.1	413.3	91.8	91.9	91.9	63.2	74.7	76.0	8764.8
KPL/KPG.1200.200.12.T.50.19.E	200.0	485.0	2523.5	2397.3	435.1	413.3	91.8	91.9	91.9	63.2	74.7	76.0	8764.8
KPL/KPG.1200.200.12.T.50.21.E	200.0	485.0	2523.5	2397.3	435.1	413.3	91.8	91.9	91.9	63.2	74.7	76.0	8764.8
KPL/KPG.1200.200.12.T.50.23.E	200.0	485.0	2523.5	2397.3	435.1	413.3	91.8	91.9	91.9	63.2	74.7	76.0	8764.8
KPL/KPG.1200.220.12.T.50.19.E	220.0	485.0	2632.2	2500.6	478.6	454.7	91.8	91.9	91.9	63.2	74.7	76.0	9641.9
KPL/KPG.1200.220.12.T.50.21.E	220.0	485.0	2632.2	2500.6	478.6	454.7	91.8	91.9	91.9	63.2	74.7	76.0	9641.9
KPL/KPG.1200.220.12.T.50.23.E	220.0	485.0	2632.2	2500.6	478.6	454.7	91.8	91.9	91.9	63.2	74.7	76.0	9641.9

8.37 KPL/KPG.1400.---.14.T.50.E



TM065028

Pump data

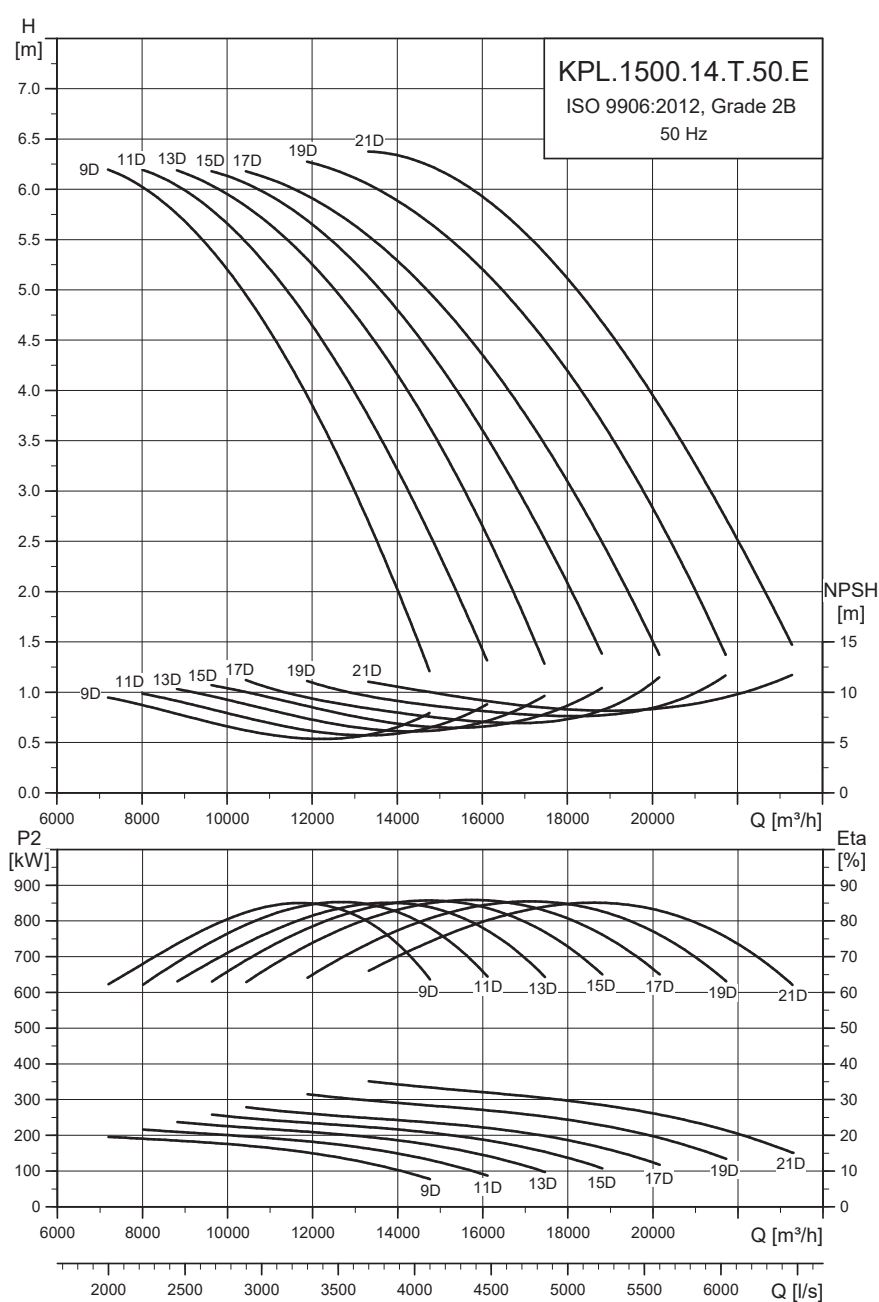
Model	No of poles	Discharge column size [mm]	Propeller no	Propeller diam. [mm]	No of blades	Free passage [mm]	Min. flow rate [m³/h]	Moment of inertia [kgm²]	
								Motor	Propeller
KPL/KPG.1400.132.14.T.50.9.E	14	1400	9	950	3	145	4752	75.30	12.56
KPL/KPG.1400.132.14.T.50.11.E	14	1400	11	950	3	155	5319	75.30	12.56
KPL/KPG.1400.132.14.T.50.13.E	14	1400	13	950	3	165	7343	75.30	12.56
KPL/KPG.1400.160.14.T.50.11.E	14	1400	11	950	3	155	5319	132.50	12.56
KPL/KPG.1400.160.14.T.50.13.E	14	1400	13	950	3	165	5886	132.50	12.56
KPL/KPG.1400.160.14.T.50.15.E	14	1400	15	950	3	175	6453	132.50	12.56
KPL/KPG.1400.160.14.T.50.17.E	14	1400	17	950	3	185	8640	132.50	12.56
KPL/KPG.1400.200.14.T.50.15.E	14	1400	15	950	3	175	6453	140.40	12.56
KPL/KPG.1400.200.14.T.50.17.E	14	1400	17	950	3	185	7020	140.40	12.56
KPL/KPG.1400.200.14.T.50.19.E	14	1400	19	950	3	195	7794	140.40	12.56

Model	No of poles	Discharge column size [mm]	Propeller no	Propeller diam. [mm]	No of blades	Free passage [mm]	Min. flow rate [m³/h]	Moment of inertia [kgm²]	
								Motor	Propeller
KPL/KPG.1400.200.14.T.50.21.E	14	1400	21	950	3	205	8568	140.40	12.56
KPL/KPG.1400.200.14.T.50.23.E	14	1400	23	950	3	230	12418	140.40	12.56
KPL/KPG.1400.250.14.T.50.21.E	14	1400	21	950	3	205	8568	172.30	12.56
KPL/KPG.1400.250.14.T.50.23.E	14	1400	23	950	3	230	9342	172.30	12.56

Electrical data

Model	P2 [kW]	min ⁻¹	I _{start} [A]		I _N [A]		η _{motor} [%]			Cos φ			Breakdown torque [Nm]
			380 V	400 V	380 V	400 V	1/2	3/4	1/1	1/2	3/4	1/1	
KPL/KPG.1400.132.14.T.50.9.E	132.0	410.0	1669.7	1586.2	303.6	288.4	90.4	90.5	90.5	57.2	69.4	73.0	6874.7
KPL/KPG.1400.132.14.T.50.11.E	132.0	410.0	1669.7	1586.2	303.6	288.4	90.4	90.5	90.5	57.2	69.4	73.0	6874.7
KPL/KPG.1400.132.14.T.50.13.E	132.0	410.0	1669.7	1586.2	303.6	288.4	90.4	90.5	90.5	57.2	69.4	73.0	6874.7
KPL/KPG.1400.160.14.T.50.11.E	160.0	410.0	2141.6	2034.5	356.9	339.1	91.1	91.2	91.3	56.5	69.2	74.6	8184.2
KPL/KPG.1400.160.14.T.50.13.E	160.0	410.0	2141.6	2034.5	356.9	339.1	91.1	91.2	91.3	56.5	69.2	74.6	8184.2
KPL/KPG.1400.160.14.T.50.15.E	160.0	410.0	2141.6	2034.5	356.9	339.1	91.1	91.2	91.3	56.5	69.2	74.6	8184.2
KPL/KPG.1400.160.14.T.50.17.E	160.0	410.0	2141.6	2034.5	356.9	339.1	91.1	91.2	91.3	56.5	69.2	74.6	8184.2
KPL/KPG.1400.200.14.T.50.15.E	200.0	410.0	2452.7	2330.0	445.9	423.6	90.9	91.0	91.1	58.9	71.2	74.8	10855.7
KPL/KPG.1400.200.14.T.50.17.E	200.0	410.0	2452.7	2330.0	445.9	423.6	90.9	91.0	91.1	58.9	71.2	74.8	10855.7
KPL/KPG.1400.200.14.T.50.19.E	200.0	410.0	2452.7	2330.0	445.9	423.6	90.9	91.0	91.1	58.9	71.2	74.8	10855.7
KPL/KPG.1400.200.14.T.50.21.E	200.0	410.0	2452.7	2330.0	445.9	423.6	90.9	91.0	91.1	58.9	71.2	74.8	10855.7
KPL/KPG.1400.200.14.T.50.23.E	200.0	410.0	2452.7	2330.0	445.9	423.6	90.9	91.0	91.1	58.9	71.2	74.8	10855.7
KPL/KPG.1400.250.14.T.50.21.E	250.0	410.0	3048.4	2896.0	554.2	526.5	91.4	91.5	91.5	60.5	69.9	74.9	12875.0
KPL/KPG.1400.250.14.T.50.23.E	250.0	410.0	3048.4	2896.0	554.2	526.5	91.4	91.5	91.5	60.5	69.9	74.9	12875.0

8.38 KPL.1500.---.14.T.50.E



TM065027

Pump data

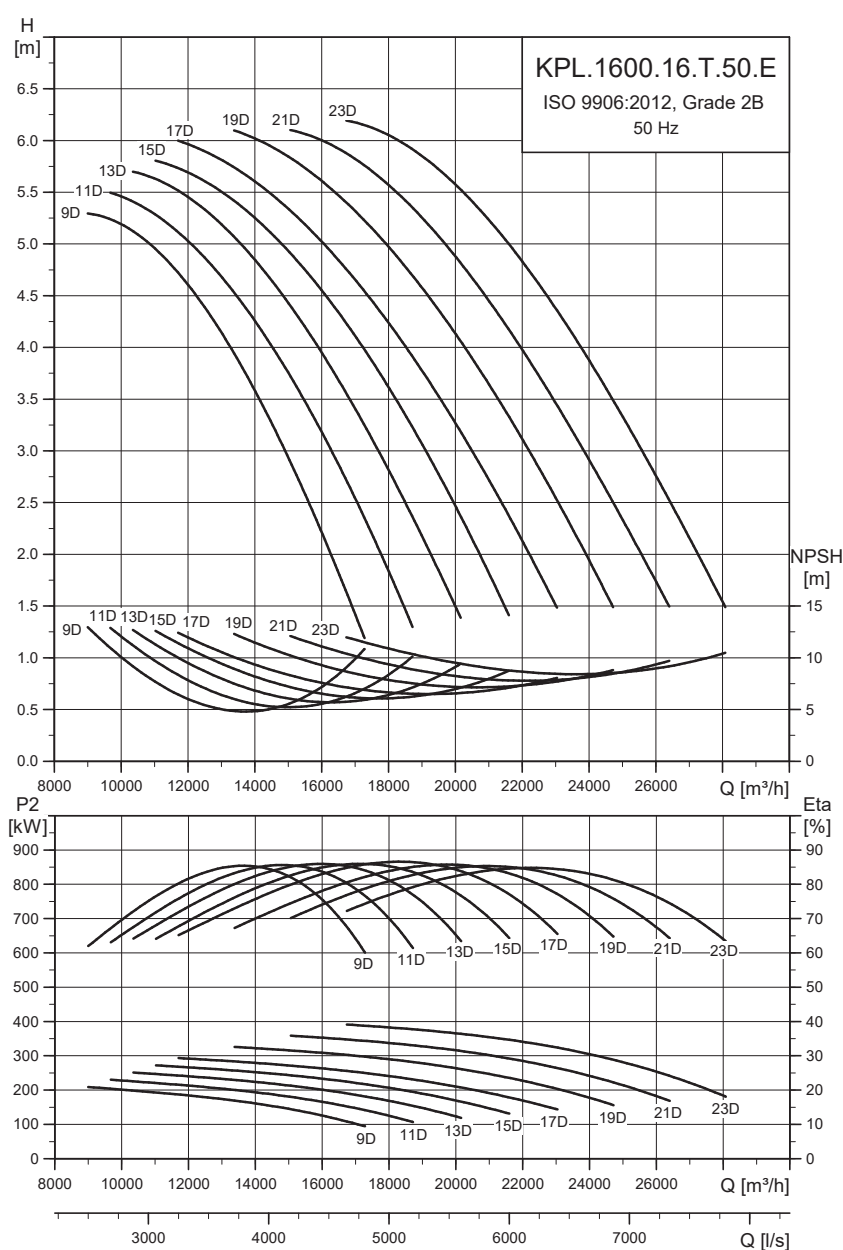
Model	No of poles	Discharge column size [mm]	Propeller no	Propeller diam. [mm]	No of blades	Free passage [mm]	Min. flow rate [m³/h]	Moment of inertia [kgm²]	
								Motor	Propeller
KPL.1500.200.14.T.50.9.E	14	1500	9	1060	3	165	7200	140.4	12.6
KPL.1500.200.14.T.50.11.E	14	1500	11	1060	3	175	10000	140.4	12.6
KPL.1500.200.14.T.50.13.E	14	1500	13	1060	3	190	12500	140.4	12.6
KPL.1500.250.14.T.50.11.E	14	1500	11	1060	3	175	8010	172.3	12.6
KPL.1500.250.14.T.50.13.E	14	1500	13	1060	3	190	8820	172.3	12.6
KPL.1500.250.14.T.50.15.E	14	1500	15	1060	3	205	9630	172.3	12.6
KPL.1500.250.14.T.50.17.E	14	1500	17	1060	3	220	12240	172.3	12.6
KPL.1500.300.14.T.50.15.E	14	1500	15	1060	3	205	9630	253.6	12.6
KPL.1500.300.14.T.50.17.E	14	1500	17	1060	3	220	10440	253.6	12.6

Model	No of poles	Discharge column size [mm]	Propeller no	Propeller diam. [mm]	No of blades	Free passage [mm]	Min. flow rate [m³/h]	Moment of inertia [kgm²]	
								Motor	Propeller
KPL.1500.300.14.T.50.19.E	14	1500	19	1060	3	235	13680	253.6	12.6
KPL.1500.300.14.T.50.21.E	14	1500	21	1060	3	250	16800	253.6	12.6
KPL.1500.350.14.T.50.19.E	14	1500	19	1060	3	235	11880	295.9	12.6
KPL.1500.350.14.T.50.21.E	14	1500	21	1060	3	250	13320	295.9	12.6

Electrical data

Model	P2 [kW]	min ⁻¹	I _{start} [A]		I _N [A]		η _{motor} [%]			Cos φ			Breakdown torque [Nm]
			380 V	400 V	380 V	400 V	1/2	3/4	1/1	1/2	3/4	1/1	
KPL.1500.200.14.T.50.9.E	200	410	2452.7	2330.0	445.9	423.6	90.9	91.0	91.1	58.9	71.2	74.8	10855.7
KPL.1500.200.14.T.50.11.E	200	410	2452.7	2330.0	445.9	423.6	90.9	91.0	91.1	58.9	71.2	74.8	10855.7
KPL.1500.200.14.T.50.13.E	200	410	2452.7	2330.0	445.9	423.6	90.9	91.0	91.1	58.9	71.2	74.8	10855.7
KPL.1500.250.14.T.50.11.E	250	410	3048.4	2896.0	554.2	526.5	91.4	91.5	91.5	60.5	69.9	74.9	12875
KPL.1500.250.14.T.50.13.E	250	410	3048.4	2896.0	554.2	526.5	91.4	91.5	91.5	60.5	69.9	74.9	12875
KPL.1500.250.14.T.50.15.E	250	410	3048.4	2896.0	554.2	526.5	91.4	91.5	91.5	60.5	69.9	74.9	12875
KPL.1500.250.14.T.50.17.E	250	410	3048.4	2896.0	554.2	526.5	91.4	91.5	91.5	60.5	69.9	74.9	12875
KPL.1500.300.14.T.50.15.E	300	410	3257.4	3094.5	651.5	618.9	91.6	91.5	91.7	63.5	71.8	76.3	14388.8
KPL.1500.300.14.T.50.17.E	300	410	3257.4	3094.5	651.5	618.9	91.6	91.5	91.7	63.5	71.8	76.3	14388.8
KPL.1500.300.14.T.50.19.E	300	410	3257.4	3094.5	651.5	618.9	91.6	91.5	91.7	63.5	71.8	76.3	14388.8
KPL.1500.300.14.T.50.21.E	300	410	3257.4	3094.5	651.5	618.9	91.6	91.5	91.7	63.5	71.8	76.3	14388.8
KPL.1500.350.14.T.50.19.E	350	410	3737.2	3550.3	747.4	710.1	92.1	92.3	92.4	58.4	71.3	77.0	16786.5
KPL.1500.350.14.T.50.21.E	350	410	3737.2	3550.3	747.4	710.1	92.1	92.3	92.4	58.4	71.3	77.0	16786.5

8.39 KPL.1600.---.16.T.50.E



TM065026

Pump data

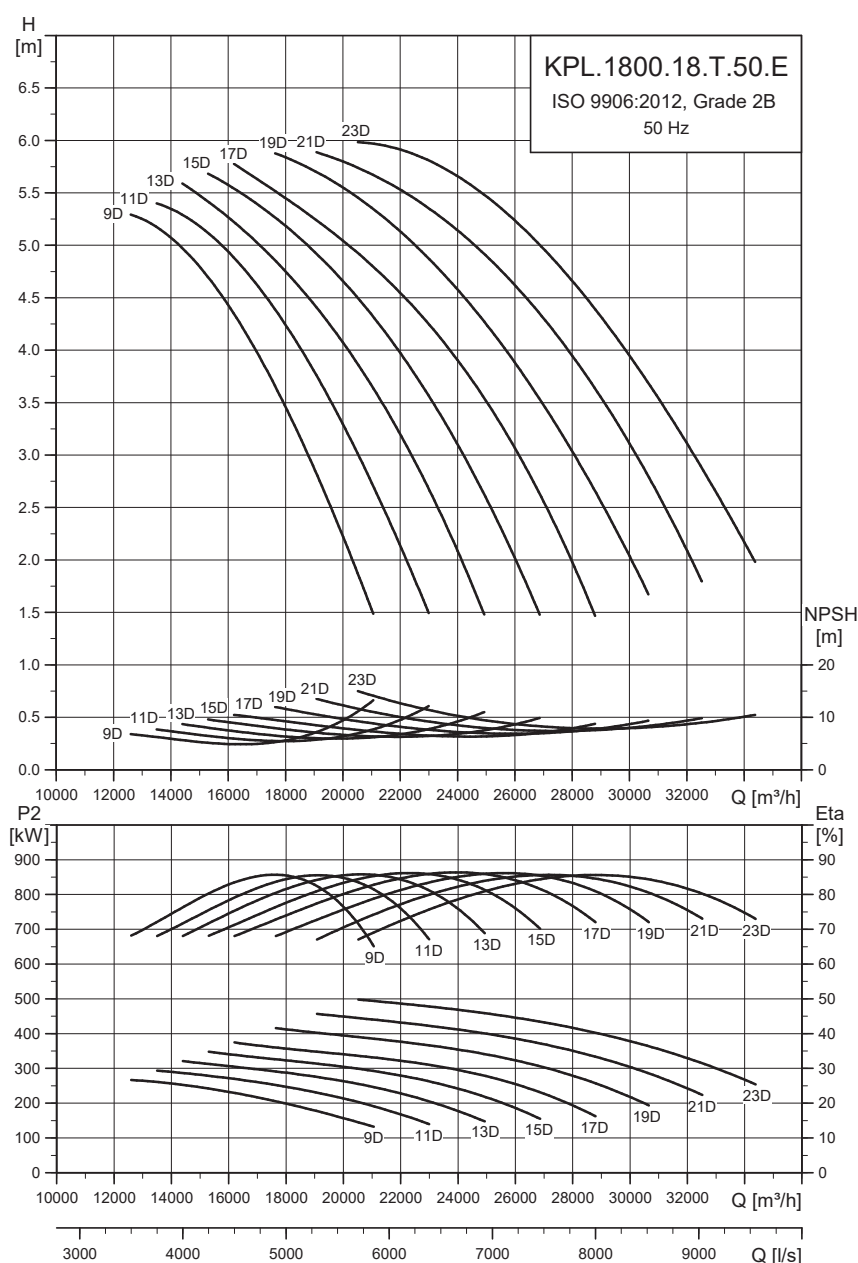
Model	No of poles	Discharge column size [mm]	Propeller no	Propeller diam. [mm]	No of blades	Free passage [mm]	Min. flow rate [m³/h]	Moment of inertia [kgm²]	
								Motor	Propeller
KPL.1600.200.16.T.50.9.E	16	1600	9	1150	3	180	9000	169.1	26.2
KPL.1600.200.16.T.50.11.E	16	1600	11	1150	3	195	9675	169.1	26.2
KPL.1600.200.16.T.50.13.E	16	1600	13	1150	3	210	15472	169.1	26.2
KPL.1600.250.16.T.50.13.E	16	1600	13	1150	3	210	10350	211.33	26.2
KPL.1600.250.16.T.50.15.E	16	1600	15	1150	3	225	11025	211.33	26.2
KPL.1600.250.16.T.50.17.E	16	1600	17	1150	3	240	17700	211.33	26.2
KPL.1600.250.16.T.50.19.E	16	1600	19	1150	3	255	20920	211.33	26.2
KPL.1600.300.16.T.50.17.E	16	1600	17	1150	3	240	11700	253.6	26.2
KPL.1600.300.16.T.50.19.E	16	1600	19	1150	3	255	15990	253.6	26.2
KPL.1600.300.16.T.50.21.E	16	1600	21	1150	3	270	21112	253.6	26.2
KPL.1600.350.16.T.50.19.E	16	1600	19	1150	3	255	13380	295.9	26.2

Model	No of poles	Discharge column size [mm]	Propeller no	Propeller diam. [mm]	No of blades	Free passage [mm]	Min. flow rate [m³/h]	Moment of inertia [kgm²]	
								Motor	Propeller
KPL.1600.350.16.T.50.21.E	16	1600	21	1150	3	270	17560	295.9	26.2
KPL.1600.350.16.T.50.23.E	16	1600	23	1150	3	280	21056	295.9	26.2
KPL.1600.400.16.T.50.21.E	16	1600	21	1150	3	270	15060	338.13	26.2
KPL.1600.400.16.T.50.23.E	16	1600	23	1150	3	280	16740	338.13	26.2

Electrical data

Model	P2 [kW]	min ⁻¹	I _{start} [A]		I _N [A]		η _{motor} [%]			Cos φ			Breakdown torque [Nm]
			380 V	400 V	380 V	400 V	1/2	3/4	1/1	1/2	3/4	1/1	
KPL.1600.200.16.T.50.9.E	200	365	2220.3	2109.3	444.1	421.9	90.9	91.0	91.0	62.3	71.7	75.2	11441.9
KPL.1600.200.16.T.50.11.E	200	365	2220.3	2109.3	444.1	421.9	90.9	91.0	91.0	62.3	71.7	75.2	11441.9
KPL.1600.200.16.T.50.13.E	200	365	2220.3	2109.3	444.1	421.9	90.9	91.0	91.0	62.3	71.7	75.2	11441.9
KPL.1600.250.16.T.50.13.E	250	365	2762.6	2624.4	552.5	524.9	91.0	91.2	91.3	62.4	71.8	75.3	14302.4
KPL.1600.250.16.T.50.15.E	250	365	2762.6	2624.4	552.5	524.9	91.0	91.2	91.3	62.4	71.8	75.3	14302.4
KPL.1600.250.16.T.50.17.E	250	365	2762.6	2624.4	552.5	524.9	91.0	91.2	91.3	62.4	71.8	75.3	14302.4
KPL.1600.250.16.T.50.19.E	250	365	2762.6	2624.4	552.5	524.9	91.0	91.2	91.3	62.4	71.8	75.3	14302.4
KPL.1600.300.16.T.50.17.E	300	365	3303.4	3138.3	660.7	627.7	91.3	91.5	91.5	62.5	71.9	75.4	17162.9
KPL.1600.300.16.T.50.19.E	300	365	3303.4	3138.3	660.7	627.7	91.3	91.5	91.5	62.5	71.9	75.4	17162.9
KPL.1600.300.16.T.50.21.E	300	365	3303.4	3138.3	660.7	627.7	91.3	91.5	91.5	62.5	71.9	75.4	17162.9
KPL.1600.350.16.T.50.19.E	350	365	3848.9	3656.5	769.8	731.3	91.3	91.5	91.5	62.6	72.0	75.5	20023.4
KPL.1600.350.16.T.50.21.E	350	365	3848.9	3656.5	769.8	731.3	91.3	91.5	91.5	62.6	72.0	75.5	20023.4
KPL.1600.350.16.T.50.23.E	350	365	3848.9	3656.5	769.8	731.3	91.3	91.5	91.5	62.6	72.0	75.5	20023.4
KPL.1600.400.16.T.50.21.E	400	365	4383.4	4164.2	876.7	832.8	91.5	91.6	91.7	62.7	72.1	75.6	22883.8
KPL.1600.400.16.T.50.23.E	400	365	4383.4	4164.2	876.7	832.8	91.5	91.6	91.7	62.7	72.1	75.6	22883.8

8.40 KPL.1800.---.18.T.50.E



TM065025

Pump data

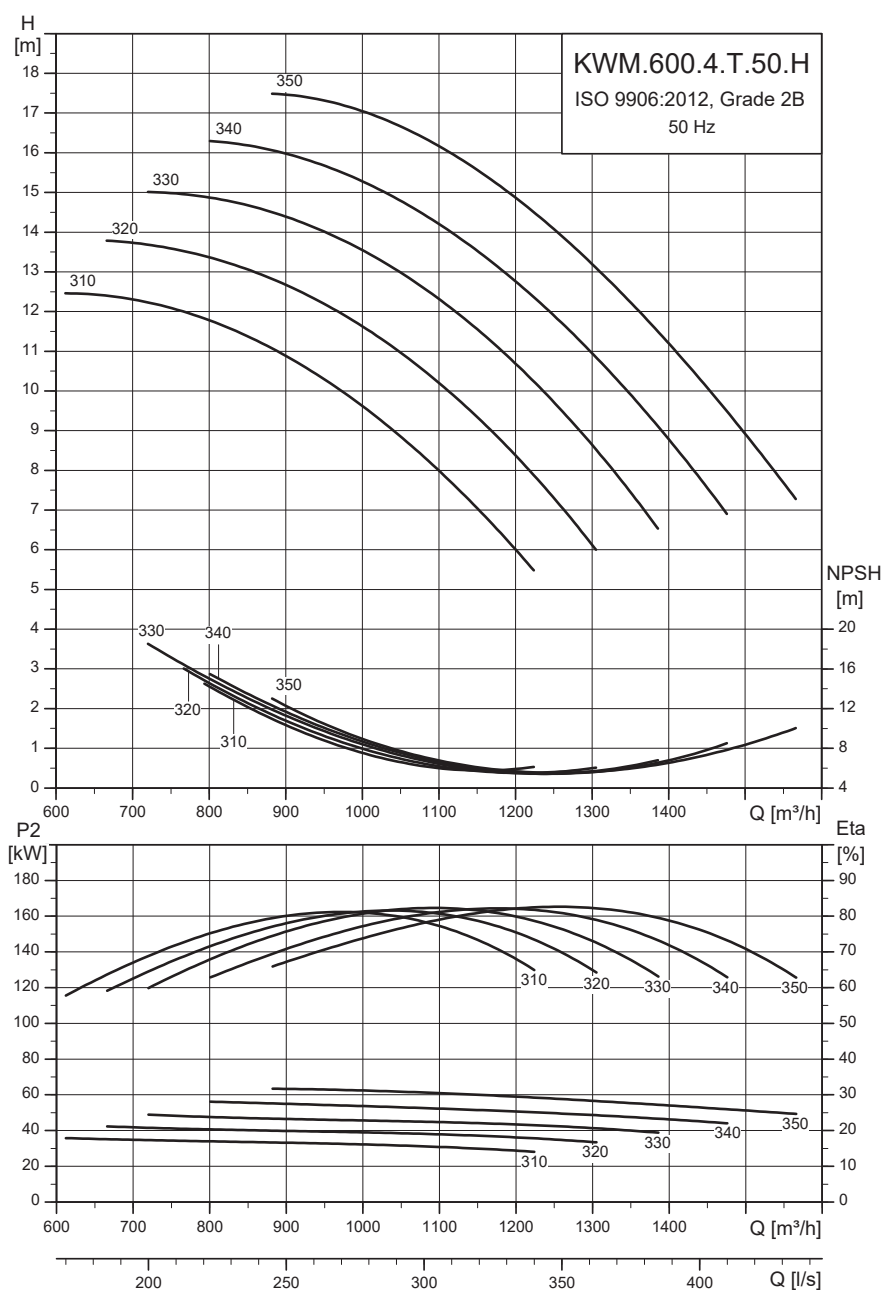
Model	No of poles	Discharge column size [mm]	Propeller no	Propeller diam. [mm]	No of blades	Free passage [mm]	Min. flow rate [m³/h]	Moment of inertia [kgm²]	
								Motor	Propeller
KPL.1800.450.16.T.50.9.L	16	1800	9	1150	4	180	10080	380.4	64.5
KPL.1800.450.16.T.50.11.L	16	1800	11	1300	4	195	14500	380.4	64.5
KPL.1800.450.16.T.50.13.L	16	1800	13	1300	4	210	19260	380.4	64.5
KPL.1800.500.16.T.50.11.L	16	1800	11	1300	4	195	11700	422.7	64.5
KPL.1800.500.16.T.50.13.L	16	1800	13	1300	4	210	15660	422.7	64.5
KPL.1800.500.16.T.50.15.L	16	1800	15	1300	4	240	20967	422.7	64.5
KPL.1800.500.16.T.50.17.L	16	1800	17	1300	4	250	24405	422.7	64.5
KPL.1800.600.16.T.50.13.L	16	1800	13	1300	4	210	13320	507.2	64.5
KPL.1800.600.16.T.50.15.L	16	1800	15	1300	4	240	14940	507.2	64.5
KPL.1800.600.16.T.50.17.L	16	1800	17	1300	4	250	19078	507.2	64.5
KPL.1800.600.16.T.50.19.L	16	1800	19	1300	4	270	24000	507.2	64.5
KPL.1800.600.16.T.50.21.L	16	1800	21	1300	4	285	27600	507.2	64.5

Model	No of poles	Discharge column size [mm]	Propeller no	Propeller diam. [mm]	No of blades	Free passage [mm]	Min. flow rate [m³/h]	Moment of inertia [kgm²]	
								Motor	Propeller
KPL.1800.700.16.T.50.15.L	16	1800	15	1300	4	240	14940	591.73	64.5
KPL.1800.700.16.T.50.17.L	16	1800	17	1300	4	250	16558	591.73	64.5
KPL.1800.700.16.T.50.19.L	16	1800	19	1300	4	270	18720	591.73	64.5
KPL.1800.700.16.T.50.21.L	16	1800	21	1300	4	285	23637	591.73	64.5

Electrical data

Model	P2 [kW]	min ⁻¹	I _{start} [A]		I _N [A]		η _{motor} [%]			Cos φ			Breakdown torque [Nm]
			380 V	400 V	380 V	400 V	1/2	3/4	1/1	1/2	3/4	1/1	
KPL.1800.450.16.T.50.9.L	450	365	4914.051	4668.348	982.8102	933.6697	91.8	91.9	91.9	62.8	72.2	75.7	25528.9
KPL.1800.450.16.T.50.11.L	450	365	4914.051	4668.348	982.8102	933.6697	91.8	91.9	91.9	62.8	72.2	75.7	25528.9
KPL.1800.450.16.T.50.13.L	450	365	4914.051	4668.348	982.8102	933.6697	91.8	91.9	91.9	62.8	72.2	75.7	25528.9
KPL.1800.500.16.T.50.11.L	500	365	5441.012	5168.961	1088.202	1033.792	92	92.1	92.1	62.9	72.3	75.8	28476.5
KPL.1800.500.16.T.50.13.L	500	365	5441.012	5168.961	1088.202	1033.792	92	92.1	92.1	62.9	72.3	75.8	28476.5
KPL.1800.500.16.T.50.15.L	500	365	5441.012	5168.961	1088.202	1033.792	92	92.1	92.1	62.9	72.3	75.8	28476.5
KPL.1800.500.16.T.50.17.L	500	365	5441.012	5168.961	1088.202	1033.792	92	92.1	92.1	62.9	72.3	75.8	28476.5
KPL.1800.600.16.T.50.13.L	600	365	6513.54	6187.863	1302.708	1237.573	92	92.1	92.2	63	72.4	75.9	34171.8
KPL.1800.600.16.T.50.15.L	600	365	6513.54	6187.863	1302.708	1237.573	92	92.1	92.2	63	72.4	75.9	34171.8
KPL.1800.600.16.T.50.17.L	600	365	6513.54	6187.863	1302.708	1237.573	92	92.1	92.2	63	72.4	75.9	34171.8
KPL.1800.600.16.T.50.19.L	600	365	6513.54	6187.863	1302.708	1237.573	92	92.1	92.2	63	72.4	75.9	34171.8
KPL.1800.600.16.T.50.21.L	600	365	6513.54	6187.863	1302.708	1237.573	92	92.1	92.2	63	72.4	75.9	34171.8
KPL.1800.700.16.T.50.15.L	700	365	7582.681	7203.547	1516.536	1440.709	92.1	92.3	92.4	63	72.4	75.9	39767.1
KPL.1800.700.16.T.50.17.L	700	365	7582.681	7203.547	1516.536	1440.709	92.1	92.3	92.4	63	72.4	75.9	39767.1
KPL.1800.700.16.T.50.19.L	700	365	7582.681	7203.547	1516.536	1440.709	92.1	92.3	92.4	63	72.4	75.9	39767.1
KPL.1800.700.16.T.50.21.L	700	365	7582.681	7203.547	1516.536	1440.709	92.1	92.3	92.4	63	72.4	75.9	39767.1

8.41 KWM.600.---.4.T.50.H



TM065049

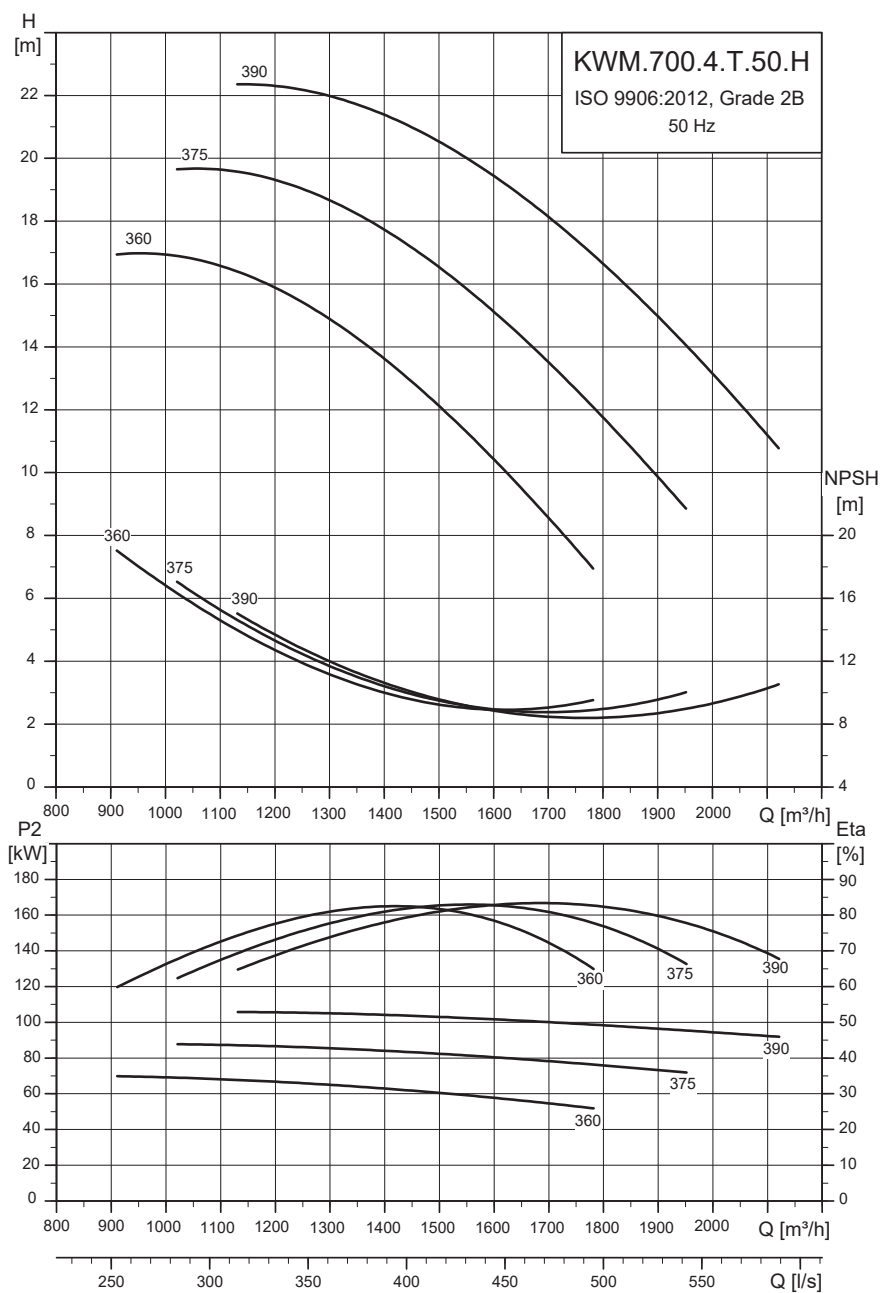
Pump data

Model	No of poles	Discharge column size [mm]	Propeller no	Propeller diam. [mm]	No of blades	Free passage [mm]	Min. flow rate [m³/h]	Moment of inertia [kgm²]	
								Motor	Propeller
KWM.600.37.4.T.50.310.H	4	600	-	310	4	40	612	2.3	0.28
KWM.600.45.4.T.50.320.H	4	600	-	320	4	40	666	2.9	0.29
KWM.600.55.4.T.50.330.H	4	600	-	330	4	40	720	3.6	0.3
KWM.600.55.4.T.50.340.H	4	600	-	340	4	40	945	3.6	0.31
KWM.600.65.4.T.50.340.H	4	600	-	340	4	40	801	4.3	0.31
KWM.600.65.4.T.50.350.H	4	600	-	350	4	40	882	4.3	0.32

Electrical data

Model	P2 [kW]	min ⁻¹	I _{start} [A]		I _N [A]		η _{motor} [%]			Cos φ			Breakdown torque [Nm]
			380 V	400 V	380 V	400 V	1/2	3/4	1/1	1/2	3/4	1/1	
KWM.600.37.4.T.50.310.H	37	1450	413.9606	393.2626	73.92154	70.22547	87.5	89.5	90	69.5	79.5	84.5	583
KWM.600.45.4.T.50.320.H	45	1450	503.4656	478.2924	89.90458	85.40935	87.5	89.5	90	69.5	79.5	84.5	710
KWM.600.55.4.T.50.330.H	55	1450	611.7272	581.1408	109.237	103.7752	87.5	89.5	90	70	80	85	868
KWM.600.55.4.T.50.340.H	55	1450	611.7272	581.1408	109.237	103.7752	87.5	89.5	90	70	80	85	868
KWM.600.65.4.T.50.340.H	65	1450	722.9503	686.8028	129.0983	122.6434	87.5	89.5	90	70	80	85	982
KWM.600.65.4.T.50.350.H	65	1450	722.9503	686.8028	129.0983	122.6434	87.5	89.5	90	70	80	85	982

8.42 KWM.700.---.4.T.50.H



TM065047

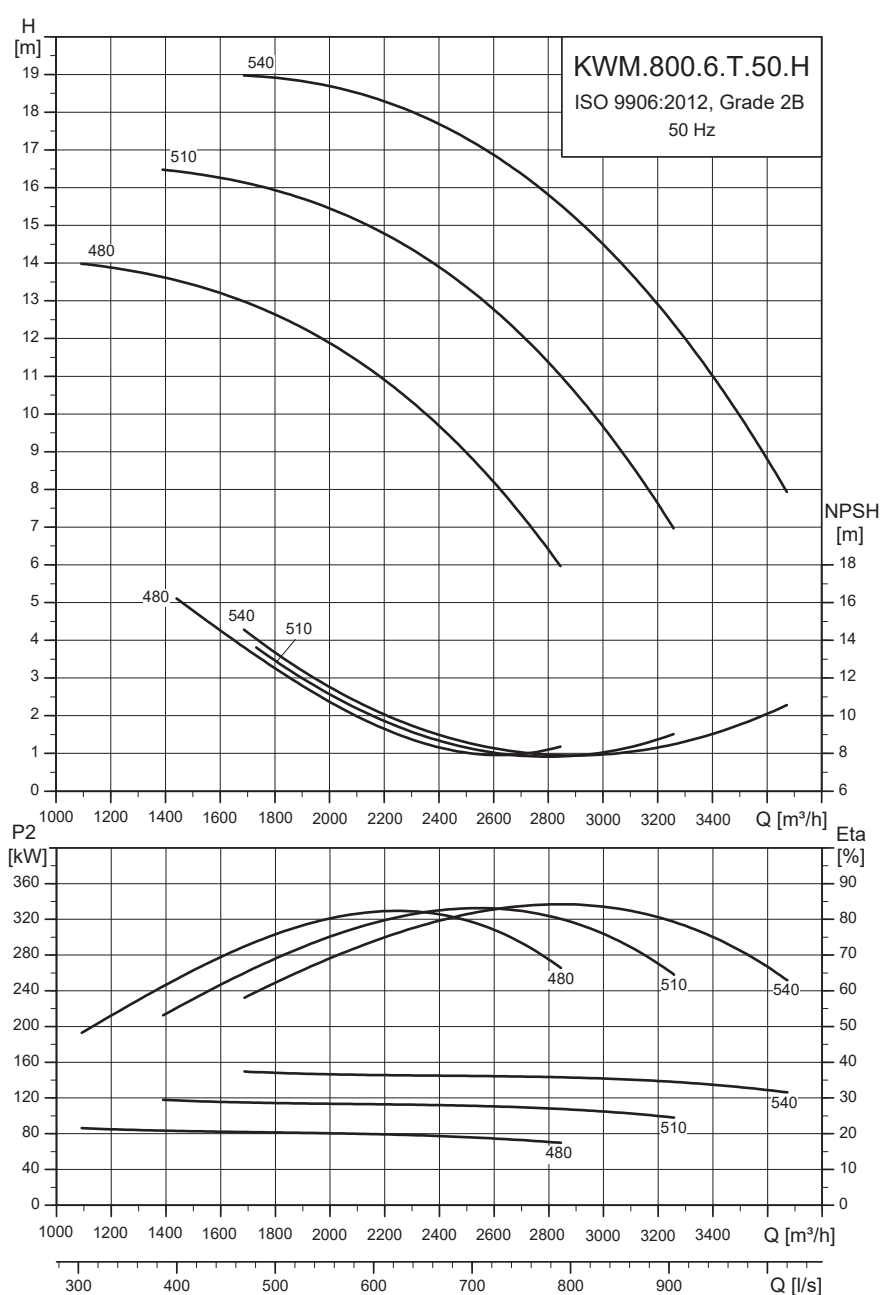
Pump data

Model	No of poles	Discharge column size [mm]	Propeller no	Propeller diam. [mm]	No of blades	Free passage [mm]	Min. flow rate [m³/h]	Moment of inertia [kgm²]	
								Motor	Propeller
KWM.700.75.4.T.50.360.H	4	700	-	360	4	50	1080	5.1	0.57
KWM.700.90.4.T.50.375.H	4	700	-	375	4	50	1021	8.7	0.58
KWM.700.110.4.T.50.390.H	4	700	-	390	4	50	1131	13.4	0.59

Electrical data

Model	P2 [kW]	min ⁻¹	I _{start} [A]		I _N [A]		η _{motor} [%]		Cos φ						Breakdown torque [Nm]
			380 V	400 V	380 V	400 V	1/2	3/4	1/1	1/2	3/4	1/1			
KWM.700.75.4.T.50.360.H	75	1450	819.9187	778.9227	146.414	139.0933	88	90	90.5	71	81	86	1133		
KWM.700.90.4.T.50.375.H	90	1450	967.2493	918.8868	172.7231	164.0869	88.5	90.5	91	72	82	87	1302		
KWM.700.110.4.T.50.390.H	110	1450	1166.196	1107.887	208.2494	197.8369	88.7	90.7	91.2	73	83	88	1592		

8.43 KWM.800.---.6.T.50.H



TM065045

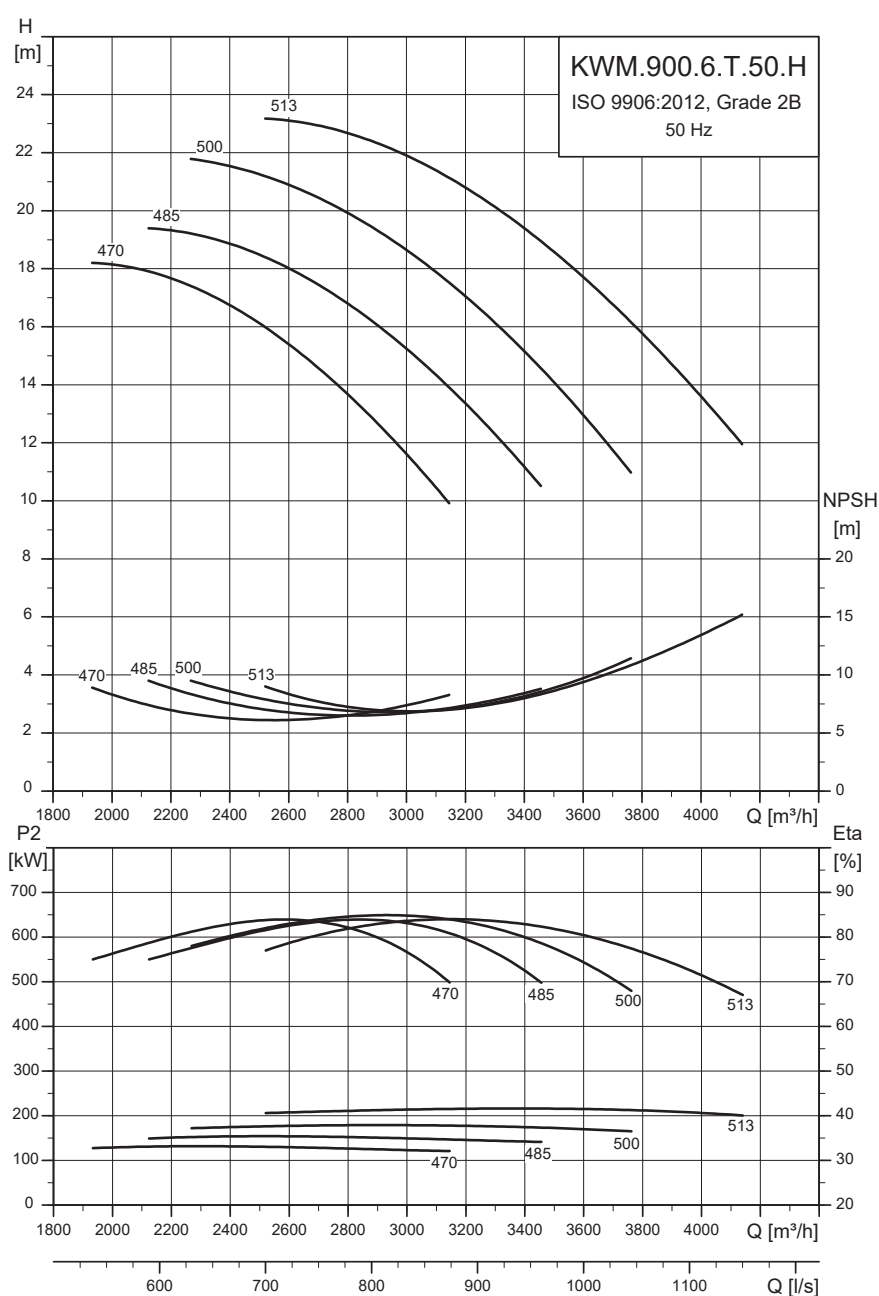
Pump data

Model	No of poles	Discharge column size [mm]	Propeller no	Propeller diam. [mm]	No of blades	Free passage [mm]	Min. flow rate [m³/h]	Moment of inertia [kgm²]	
								Motor	Propeller
KWM.800.90.6.T.50.480.H	6	800	-	480	4	55	1092	17.8	2.5
KWM.800.110.6.T.50.480.H	6	800	-	480	4	55	1092	24.5	2.5
KWM.800.110.6.T.50.510.H	6	800	-	510	4	55	2664	24.5	2.6
KWM.800.132.6.T.50.510.H	6	800	-	510	4	55	1390	27.8	2.6
KWM.800.160.6.T.50.540.H	6	800	-	540	4	55	1687	38.9	2.7

Electrical data

Model	P2 [kW]	min ⁻¹	I _{start} [A]		I _N [A]		η _{motor} [%]		Cos φ				Breakdown torque [Nm]
			380 V	400 V	380 V	400 V	1/2	3/4	1/1	1/2	3/4	1/1	
KWM.800.90.6.T.50.480.H	90	950	995.4777	945.7038	177.7639	168.8757	88	90	90.5	68	79.5	85	1958
KWM.800.110.6.T.50.480.H	110	950	1199.896	1139.901	214.2671	203.5537	88.3	90.3	90.7	69	80.5	86	2385.7
KWM.800.110.6.T.50.510.H	110	950	1199.896	1139.901	214.2671	203.5537	88.3	90.3	90.7	69	80.5	86	2385.7
KWM.800.132.6.T.50.510.H	132	950	1475.036	1401.284	254.3166	241.6007	91.4	91.6	91.7	76.1	83.8	86	3082.9
KWM.800.160.6.T.50.540.H	160	950	1716.075	1630.272	306.442	291.1199	91.4	91.5	91.5	75.2	83.2	86.7	3837.9

8.44 KWM.900.---.6.T.50.H



TM065043

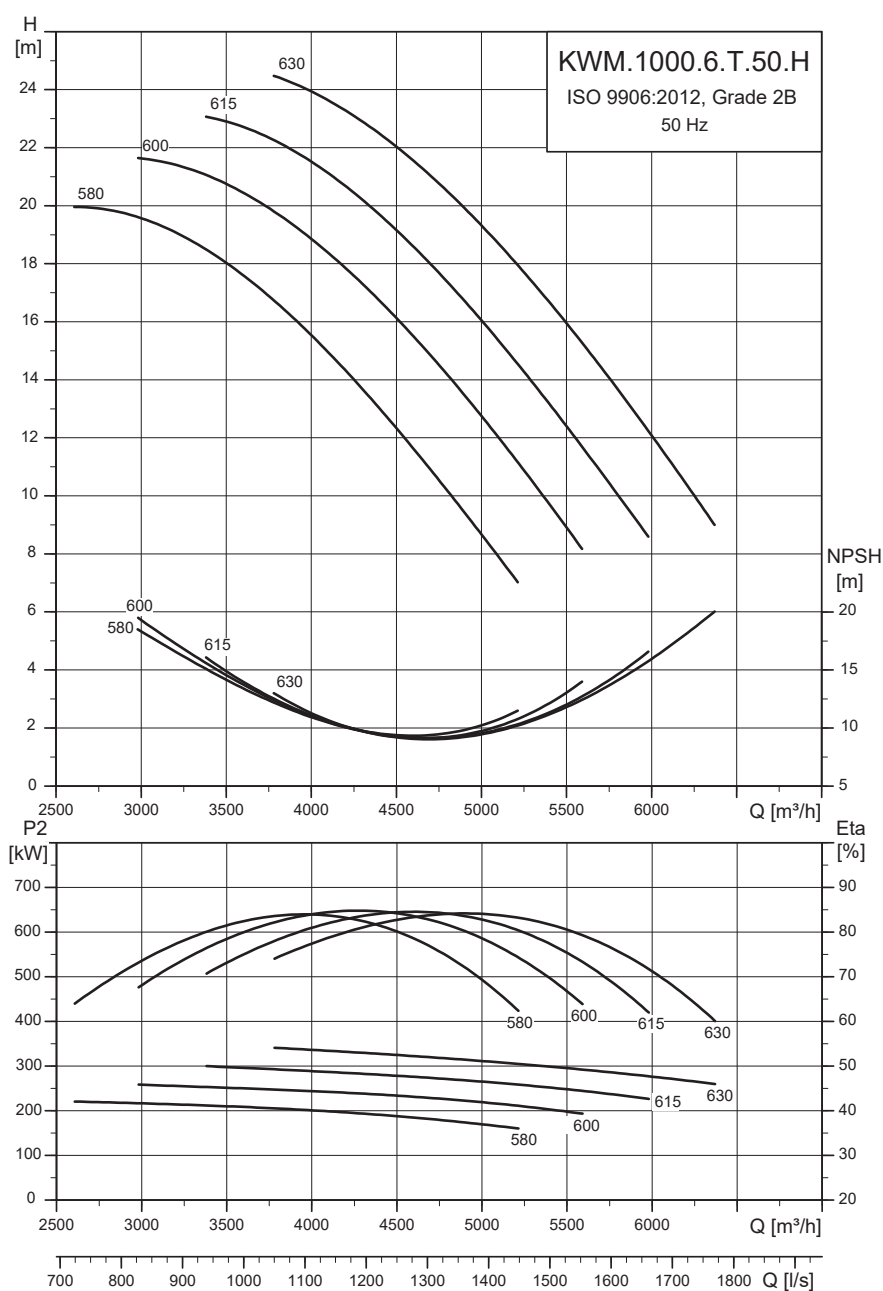
Pump data

Model	No of poles	Discharge column size [mm]	Propeller no	Propeller diam. [mm]	No of blades	Free passage [mm]	Min. flow rate [m³/h]	Moment of inertia [kgm²]	
								Motor	Propeller
KWM.900.132.6.T.50.470.H	6	900	-	470	4	60	1933	27.8	2.8
KWM.900.160.6.T.50.485.H	6	900	-	485	4	60	2124	38.9	2.85
KWM.900.200.6.T.50.500.H	6	900	-	500	4	60	2268	42.4	2.32
KWM.900.220.6.T.50.513.H	6	900	-	513	4	60	2520	45.6	2.4

Electrical data

Model	P2 [kW]	min ⁻¹	I _{start} [A]		I _N [A]		η _{motor} [%]		Cos φ				Breakdown torque [Nm]
			380 V	400 V	380 V	400 V	1/2	3/4	1/1	1/2	3/4	1/1	
KWM.900.132.6.T.50.470.H	132	950	1475.036	1401.284	254.3166	241.6007	91.4	91.6	91.7	76.1	83.8	86	3082.9
KWM.900.160.6.T.50.485.H	160	950	1716.075	1630.272	306.442	291.1199	91.4	91.5	91.5	75.2	83.2	86.7	3837.9
KWM.900.200.6.T.50.500.H	200	950	2126.079	2019.775	379.657	360.6742	91.8	91.9	92	78.6	85.1	87	4087.1
KWM.900.220.6.T.50.513.H	220	950	2318.205	2202.294	413.9651	393.2668	92.1	92.4	92.6	78.4	85.3	87.2	4766.3

8.45 KWM.1000.---.6.T.50.H



TM065041

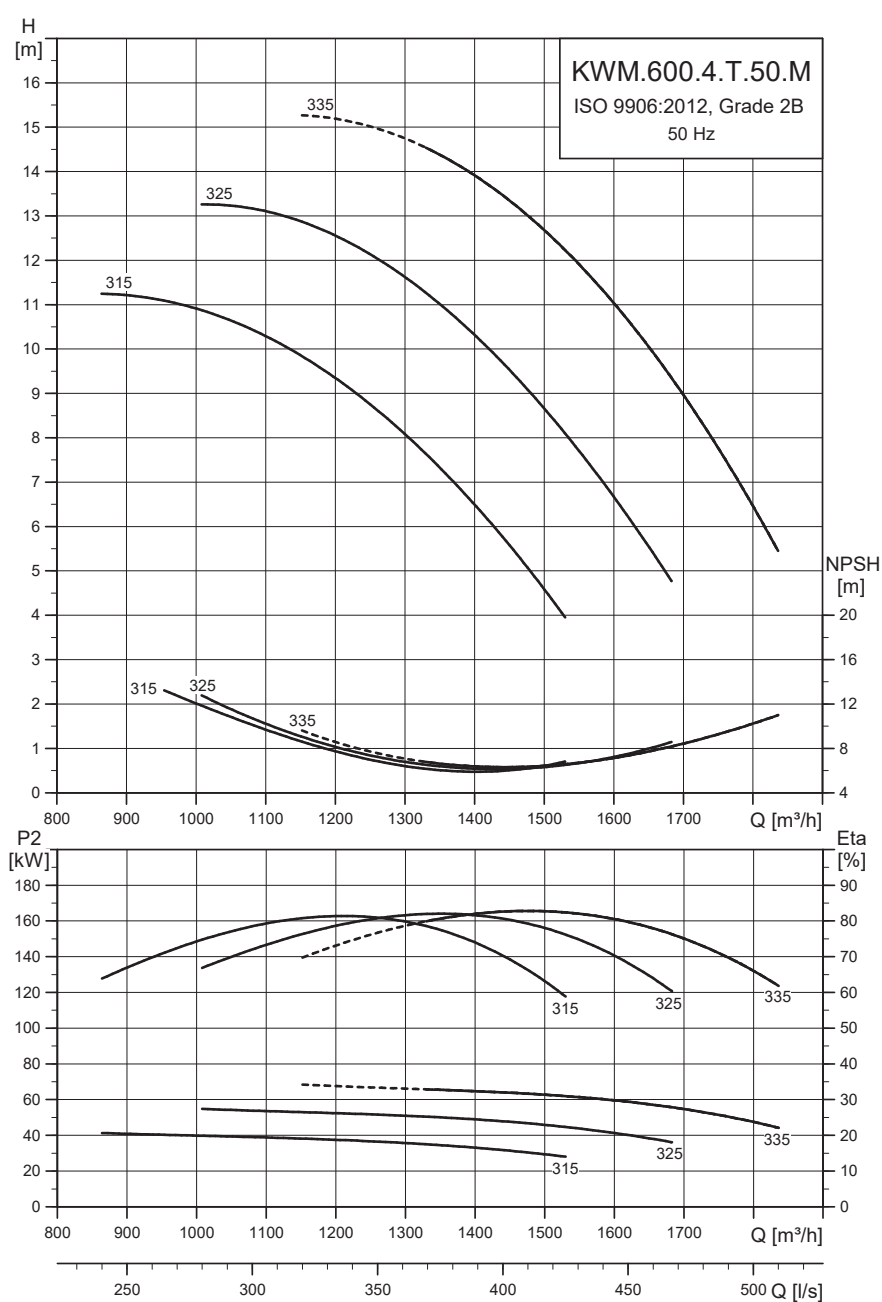
Pump data

Model	No of poles	Discharge column size [mm]	Propeller no	Propeller diam. [mm]	No of blades	Free passage [mm]	Min. flow rate [m³/h]	Moment of inertia [kgm²]	
								Motor	Propeller
KWM.1000.220.6.T.50.580.H	6	1000	-	580	4	80	2607	45.6	9.2
KWM.1000.250.6.T.50.600.H	6	1000	-	600	4	80	2982	46.8	9.35
KWM.1000.300.6.T.50.615.H	6	1000	-	615	4	80	3381	64.4	9.55
KWM.1000.350.6.T.50.630.H	6	1000	-	630	4	80	3780	114.9	9.7

Electrical data

Model	P2 [kW]	min ⁻¹	I _{start} [A]		I _N [A]		η _{motor} [%]		Cos φ				Breakdown torque [Nm]
			380 V	400 V	380 V	400 V	1/2	3/4	1/1	1/2	3/4	1/1	
KWM.1000.220.6.T.50.580.H	220	950	2318.2	2202.3	414.0	393.3	92.1	92.4	92.6	78.4	85.3	87.2	4766.3
KWM.1000.250.6.T.50.600.H	250	950	2666.4	2533.1	467.8	444.4	92.5	92.7	92.8	78.7	85.8	87.5	6276.5
KWM.1000.300.6.T.50.615.H	300	950	3126.1	2969.8	558.2	530.3	92.7	92.9	93.0	78.9	85.9	87.8	7737.4
KWM.1000.350.6.T.50.630.H	350	950	3606.4	3426.1	644.0	611.8	89.9	93.1	93.2	78.9	86.8	88.6	8926.9

8.46 KWM.600.---.4.T.50.M



TM065048

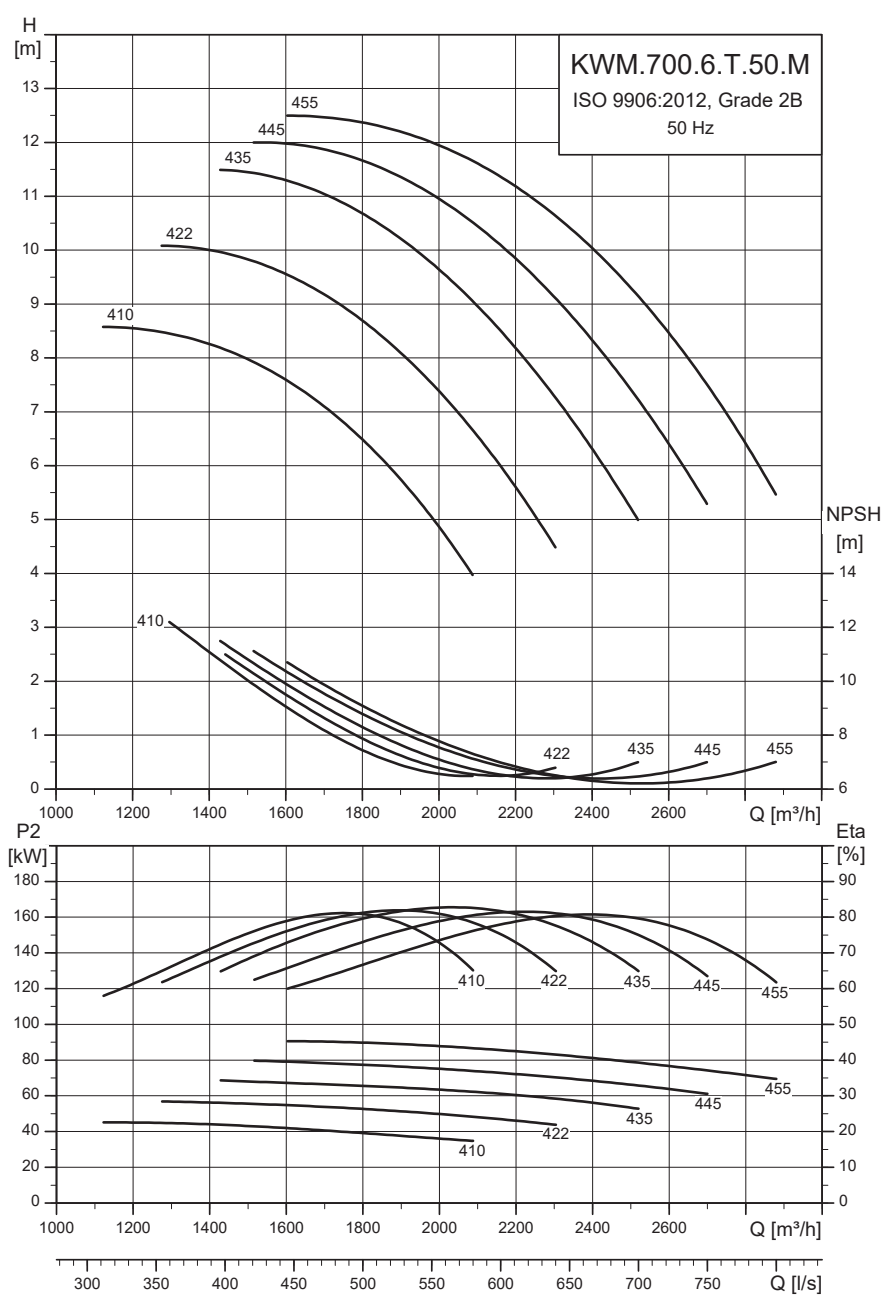
Pump data

Model	No of poles	Discharge column size [mm]	Propeller no	Propeller diam. [mm]	No of blades	Free passage [mm]	Min. flow rate [m³/h]	Moment of inertia [kgm²]	
								Motor	Propeller
KWM.600.45.4.T.50.315.M	4	600	-	315	3	50	864	2.9	0.145
KWM.600.55.4.T.50.325.M	4	600	-	325	3	50	1008	3.6	0.152
KWM.600.65.4.T.50.335.M	4	600	-	335	3	50	1152	4.3	0.16

Electrical data

Model	P2 [kW]	min ⁻¹	I _{start} [A]		I _N [A]		η _{motor} [%]			Cos φ			Breakdown torque [Nm]
			380 V	400 V	380 V	400 V	1/2	3/4	1/1	1/2	3/4	1/1	
KWM.600.45.4.T.50.315.M	45	1450	503.5	478.3	89.9	85.4	87.5	89.5	90.0	69.5	79.5	84.5	710.0
KWM.600.55.4.T.50.325.M	55	1450	611.7	581.1	109.2	103.8	87.5	89.5	90.0	70.0	80.0	85.0	868.0
KWM.600.65.4.T.50.335.M	65	1450	723.0	686.8	129.1	122.6	87.5	89.5	90.0	70.0	80.0	85.0	982.0

8.47 KWM.700.---.6.T.50.M



TM065046

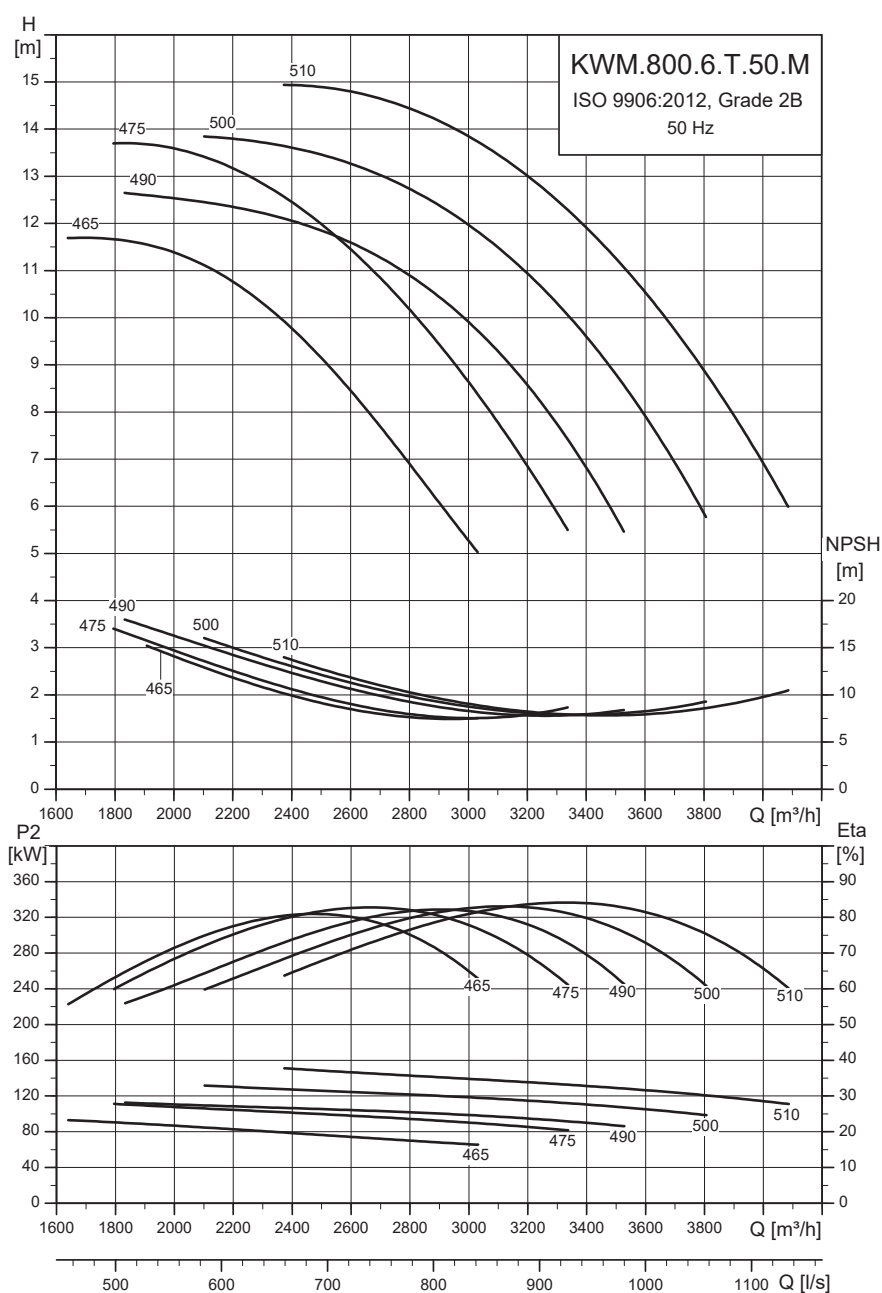
Pump data

Model	No of poles	Discharge column size [mm]	Propeller no	Propeller diam. [mm]	No of blades	Free passage [mm]	Min. flow rate [m³/h]	Moment of inertia [kgm²]	
								Motor	Propeller
KWM.700.45.6.T.50.410.M	6	700	-	410	3	60	1123	5.2	0.52
KWM.700.55.6.T.50.410.M	6	700	-	410	3	60	1123	6.1	0.52
KWM.700.55.6.T.50.422.M	6	700	-	422	3	60	1276	6.1	0.53
KWM.700.75.6.T.50.435.M	6	700	-	435	3	60	1429	13.6	0.54
KWM.700.75.6.T.50.445.M	6	700	-	445	3	60	1989	13.6	0.55
KWM.700.90.6.T.50.445.M	6	700	-	445	3	60	1516	17.8	0.55
KWM.700.90.6.T.50.455.M	6	700	-	455	3	60	1604	17.8	0.56

Electrical data

Model	P2 [kW]	min ⁻¹	I _{start} [A]		I _N [A]		η _{motor} [%]			Cos φ			Breakdown torque [Nm]
			380 V	400 V	380 V	400 V	1/2	3/4	1/1	1/2	3/4	1/1	
KWM.700.45.6.T.50.410.M	45	950	521.7	495.6	93.2	88.5	87.0	89.0	89.5	64.5	76.0	82.0	1084.0
KWM.700.55.6.T.50.410.M	55	950	626.5	595.1	111.9	106.3	87.5	89.5	90.0	66.0	77.5	83.0	1251.0
KWM.700.55.6.T.50.422.M	55	950	626.5	595.1	111.9	106.3	87.5	89.5	90.0	66.0	77.5	83.0	1251.0
KWM.700.75.6.T.50.435.M	75	950	842.2	800.1	150.4	142.9	87.8	89.8	90.2	67.0	78.5	84.0	1707.0
KWM.700.75.6.T.50.445.M	75	950	842.2	800.1	150.4	142.9	87.8	89.8	90.2	67.0	78.5	84.0	1707.0
KWM.700.90.6.T.50.445.M	90	950	995.5	945.7	177.8	168.9	88.0	90.0	90.5	68.0	79.5	85.0	1958.0
KWM.700.90.6.T.50.455.M	90	950	995.5	945.7	177.8	168.9	88.0	90.0	90.5	68.0	79.5	85.0	1958.0

8.48 KWM.800.---.6.T.50.M



TM065044

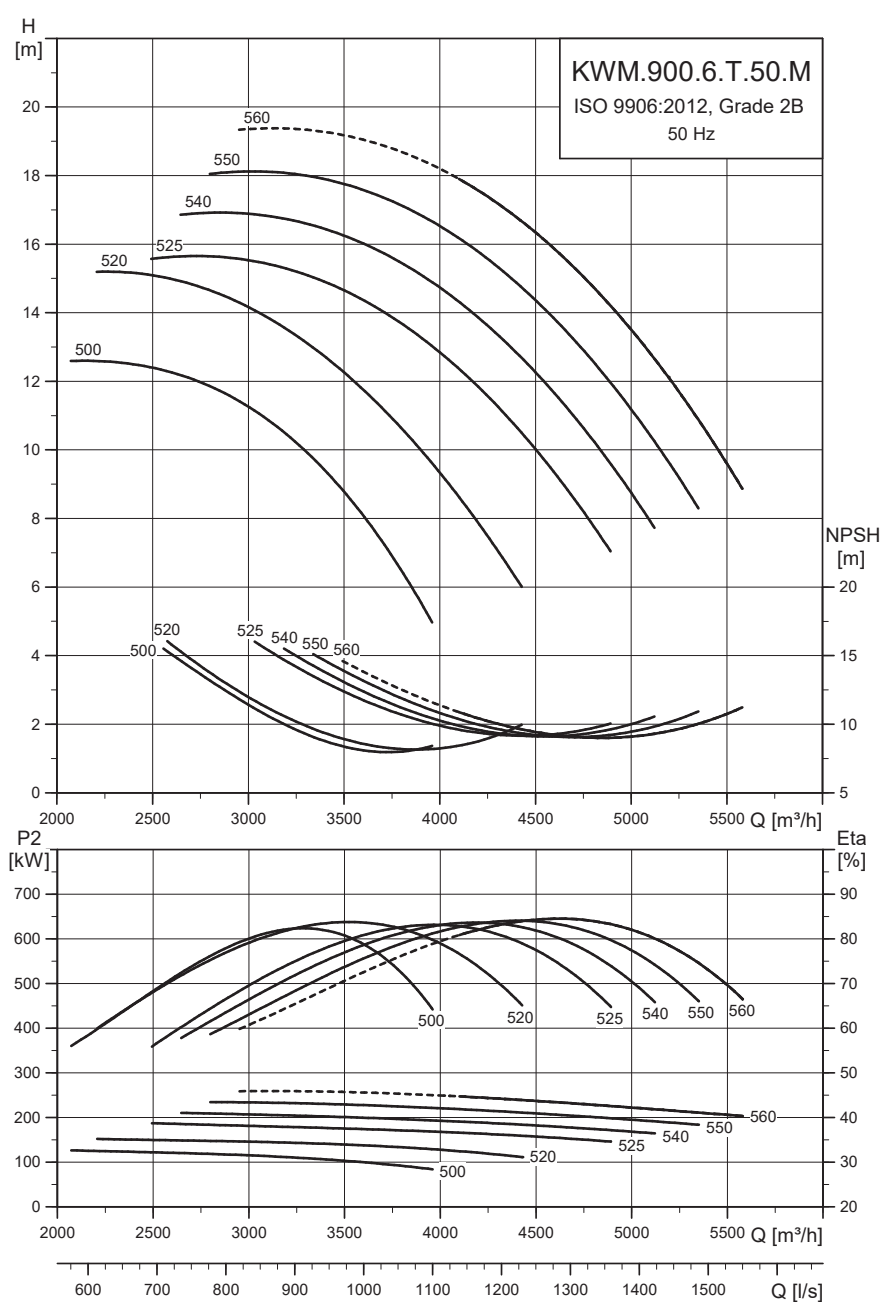
Pump data

Model	No of poles	Discharge column size [mm]	Propeller no	Propeller diam. [mm]	No of blades	Free passage [mm]	Min. flow rate [m³/h]	Moment of inertia [kgm²]	
								Motor	Propeller
KWM.800.90.6.T.50.465.M	6	800	-	465	3	55	1908	17.8	0.9
KWM.800.110.6.T.50.465.M	6	800	-	465	3	55	1640	24.5	0.9
KWM.800.110.6.T.50.475.M	6	800	-	475	3	55	1795	24.5	1
KWM.800.110.6.T.50.490.M	6	800	-	490	3	55	2124	24.5	1.11
KWM.800.132.6.T.50.490.M	6	800	-	490	3	55	1833	27.8	1.11
KWM.800.132.6.T.50.500.M	6	800	-	500	3	55	2103	27.8	1.12
KWM.800.132.6.T.50.510.M	6	800	-	510	3	55	3294	27.8	1.13
KWM.800.160.6.T.50.500.M	6	800	-	500	3	55	2103	38.9	1.12
KWM.800.160.6.T.50.510.M	6	800	-	510	3	55	2373	38.9	1.13

Electrical data

Model	P2 [kW]	min ⁻¹	I _{start} [A]		I _N [A]		η _{motor} [%]		Cos φ				Breakdown torque [Nm]
			380 V	400 V	380 V	400 V	1/2	3/4	1/1	1/2	3/4	1/1	
KWM.800.90.6.T.50.465.M	90	950	995.5	945.7	177.8	168.9	88.0	90.0	90.5	68.0	79.5	85.0	1958.0
KWM.800.110.6.T.50.465.M	110	950	1199.9	1139.9	214.3	203.6	88.3	90.3	90.7	69.0	80.5	86.0	2385.7
KWM.800.110.6.T.50.475.M	110	950	1199.9	1139.9	214.3	203.6	88.3	90.3	90.7	69.0	80.5	86.0	2385.7
KWM.800.110.6.T.50.490.M	110	950	1199.9	1139.9	214.3	203.6	88.3	90.3	90.7	69.0	80.5	86.0	2385.7
KWM.800.132.6.T.50.490.M	132	950	1475.0	1401.3	254.3	241.6	91.4	91.6	91.7	76.1	83.8	86.0	3082.9
KWM.800.132.6.T.50.500.M	132	950	1475.0	1401.3	254.3	241.6	91.4	91.6	91.7	76.1	83.8	86.0	3082.9
KWM.800.132.6.T.50.510.M	132	950	1475.0	1401.3	254.3	241.6	91.4	91.6	91.7	76.1	83.8	86.0	3082.9
KWM.800.160.6.T.50.500.M	160	950	1716.1	1630.3	306.4	291.1	91.4	91.5	91.5	75.2	83.2	86.7	3837.9
KWM.800.160.6.T.50.510.M	160	950	1716.1	1630.3	306.4	291.1	91.4	91.5	91.5	75.2	83.2	86.7	3837.9

8.49 KWM.900.---.6.T.50.M



TM065042

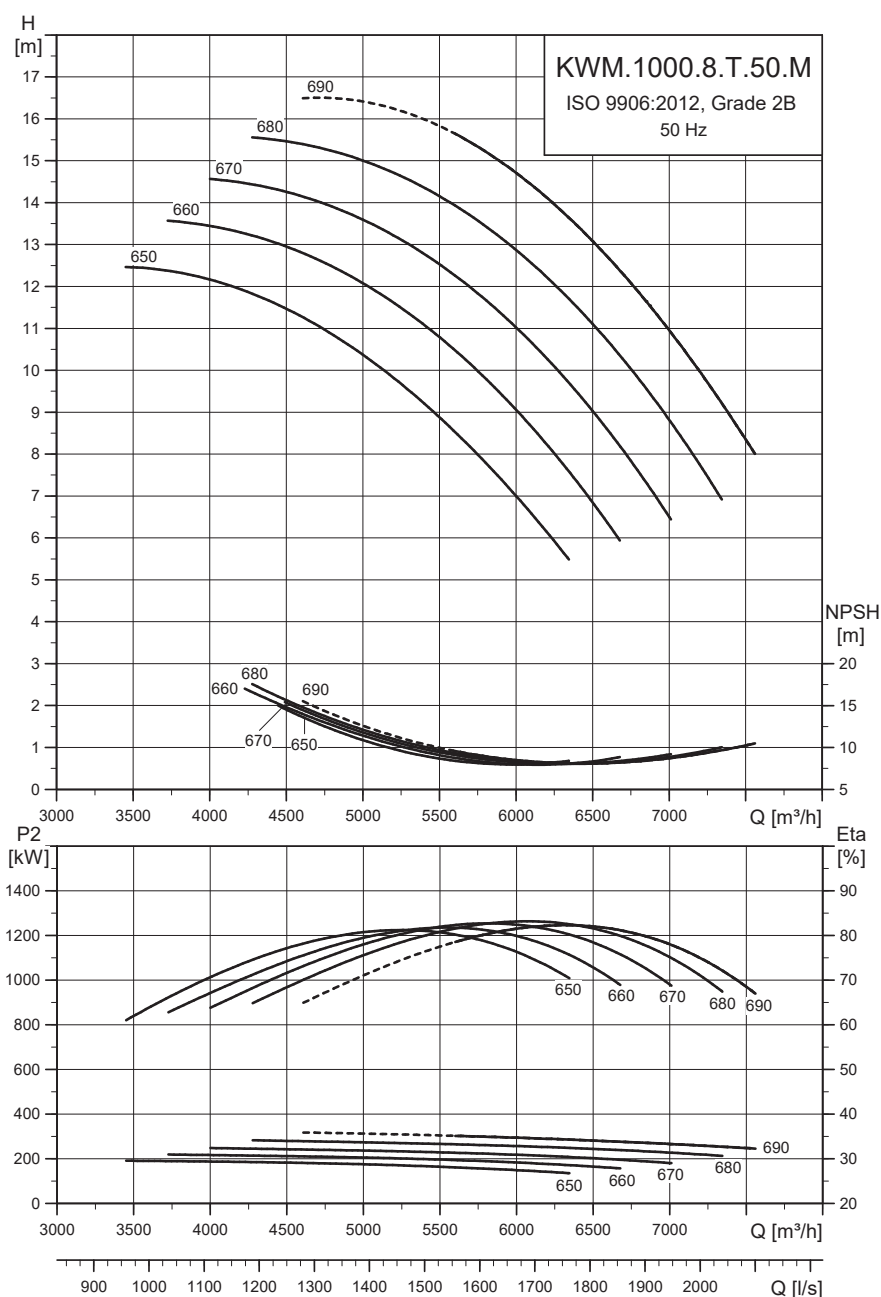
Pump data

Model	No of poles	Discharge column size [mm]	Propeller no	Propeller diam. [mm]	No of blades	Free passage [mm]	Min. flow rate [m³/h]	Moment of inertia [kgm²]	
								Motor	Propeller
KWM.900.132.6.T.50.500.M	6	900	-	500	3	70	2072	27.8	1.45
KWM.900.160.6.T.50.520.M	6	900	-	520	3	70	2208	38.9	1.5
KWM.900.200.6.T.50.525.M	6	900	-	525	3	70	2493	42.4	1.55
KWM.900.200.6.T.50.540.M	6	900	-	540	3	70	3726	42.4	1.6
KWM.900.220.6.T.50.540.M	6	900	-	540	3	70	2642	45.6	1.6
KWM.900.220.6.T.50.550.M	6	900	-	550	3	70	3915	45.6	1.66
KWM.900.250.6.T.50.550.M	6	900	-	550	3	70	2799	46.8	1.66
KWM.900.250.6.T.50.560.M	6	900	-	560	3	70	2952	46.8	1.72

Electrical data

Model	P2 [kW]	min ⁻¹	I _{start} [A]		I _N [A]		η _{motor} [%]			Cos φ			Breakdown torque [Nm]
			380 V	400 V	380 V	400 V	1/2	3/4	1/1	1/2	3/4	1/1	
KWM.900.132.6.T.50.500.M	132	950	1475.0	1401.3	254.3	241.6	91.4	91.6	91.7	76.1	83.8	86.0	3082.9
KWM.900.160.6.T.50.520.M	160	950	1716.1	1630.3	306.4	291.1	91.4	91.5	91.5	75.2	83.2	86.7	3837.9
KWM.900.200.6.T.50.525.M	200	950	2126.1	2019.8	379.7	360.7	91.8	91.9	92.0	78.6	85.1	87.0	4087.1
KWM.900.200.6.T.50.540.M	200	950	2126.1	2019.8	379.7	360.7	91.8	91.9	92.0	78.6	85.1	87.0	4087.1
KWM.900.220.6.T.50.540.M	220	950	2318.2	2202.3	414.0	393.3	92.1	92.4	92.6	78.4	85.3	87.2	4766.3
KWM.900.220.6.T.50.550.M	220	950	2318.2	2202.3	414.0	393.3	92.1	92.4	92.6	78.4	85.3	87.2	4766.3
KWM.900.250.6.T.50.550.M	250	950	2666.4	2533.1	467.8	444.4	92.5	92.7	92.8	78.7	85.8	87.5	6276.5
KWM.900.250.6.T.50.560.M	250	950	2666.4	2533.1	467.8	444.4	92.5	92.7	92.8	78.7	85.8	87.5	6276.5

8.50 KWM.1000.---.8.T.50.M



TM065040

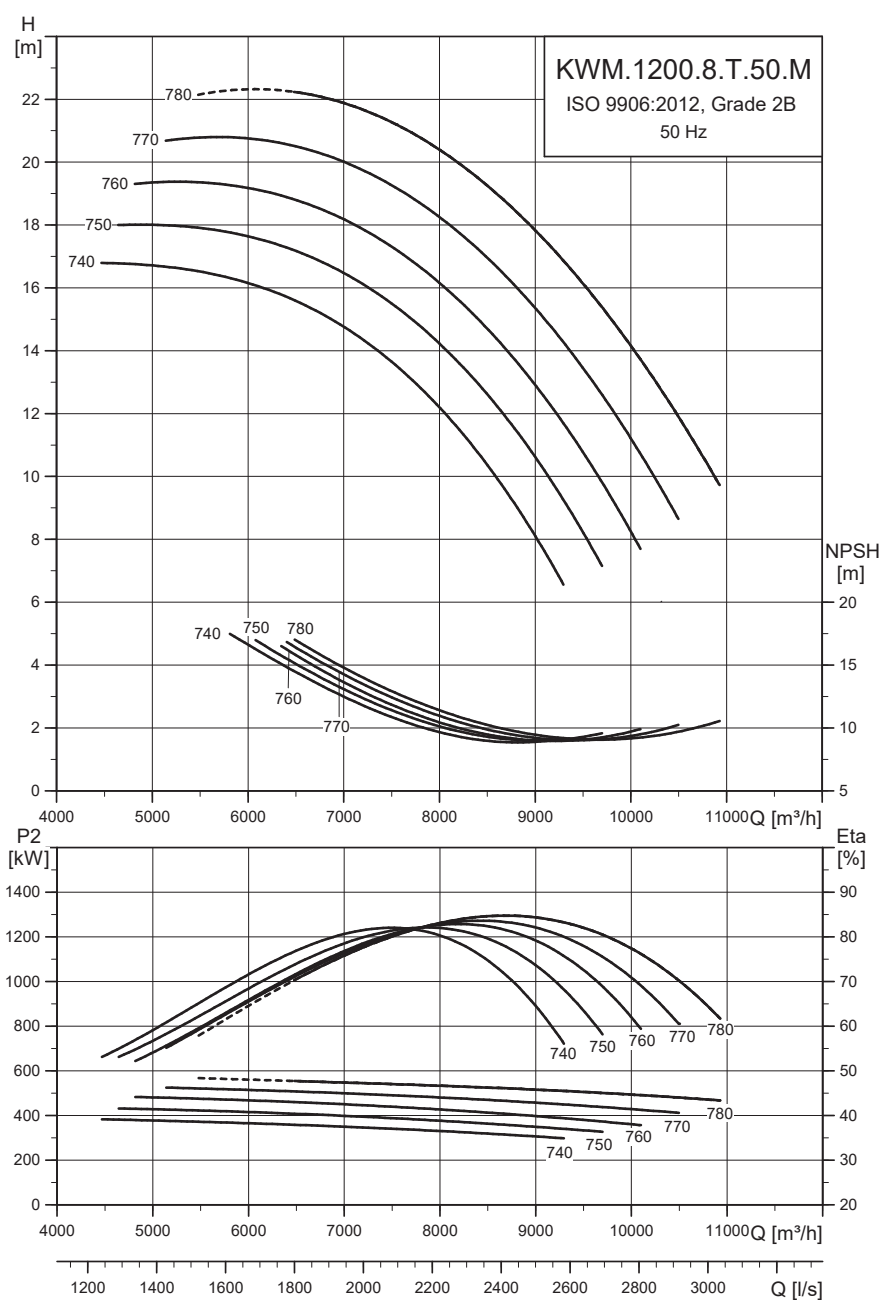
Pump data

Model	No of poles	Discharge column size [mm]	Propeller no	Propeller diam. [mm]	No of blades	Free passage [mm]	Min. flow rate [m³/h]	Moment of inertia [kgm²]	
								Motor	Propeller
KWM.1000.200.8.T.50.650.M	8	1000	-	650	3	100	3451	46.1	5.9
KWM.1000.220.8.T.50.660.M	8	1000	-	660	3	100	3726	60.9	6
KWM.1000.250.8.T.50.670.M	8	1000	-	670	3	100	4001	69.9	6.1
KWM.1000.300.8.T.50.680.M	8	1000	-	680	3	100	4277	124	6.2
KWM.1000.300.8.T.50.690.M	8	1000	-	690	3	100	4608	124	6.3

Electrical data

Model	P2 [kW]	min ⁻¹	I _{start} [A]		I _N [A]		η _{motor} [%]		Cos φ				Breakdown torque [Nm]
			380 V	400 V	380 V	400 V	1/2	3/4	1/1	1/2	3/4	1/1	
KWM.1000.200.8.T.50.650.M	200	720	2295.7	2180.9	395.8	376.0	92.4	92.5	92.5	69.9	77.6	83.0	6622.7
KWM.1000.220.8.T.50.660.M	220	720	2438.4	2316.5	427.8	406.4	92.6	92.7	92.8	72.4	81.4	84.2	6723.8
KWM.1000.250.8.T.50.670.M	250	720	2758.1	2620.2	483.9	459.7	92.7	92.8	92.9	70.4	78.9	84.5	7315.5
KWM.1000.300.8.T.50.680.M	300	720	3222.1	3061.0	575.4	546.6	93.1	93.2	93.2	71.6	79.3	85.0	8583.8
KWM.1000.300.8.T.50.690.M	300	720	3222.1	3061.0	575.4	546.6	93.1	93.2	93.2	71.6	79.3	85.0	8583.8

8.51 KWM.1200.---.8.T.50.M



TM065039

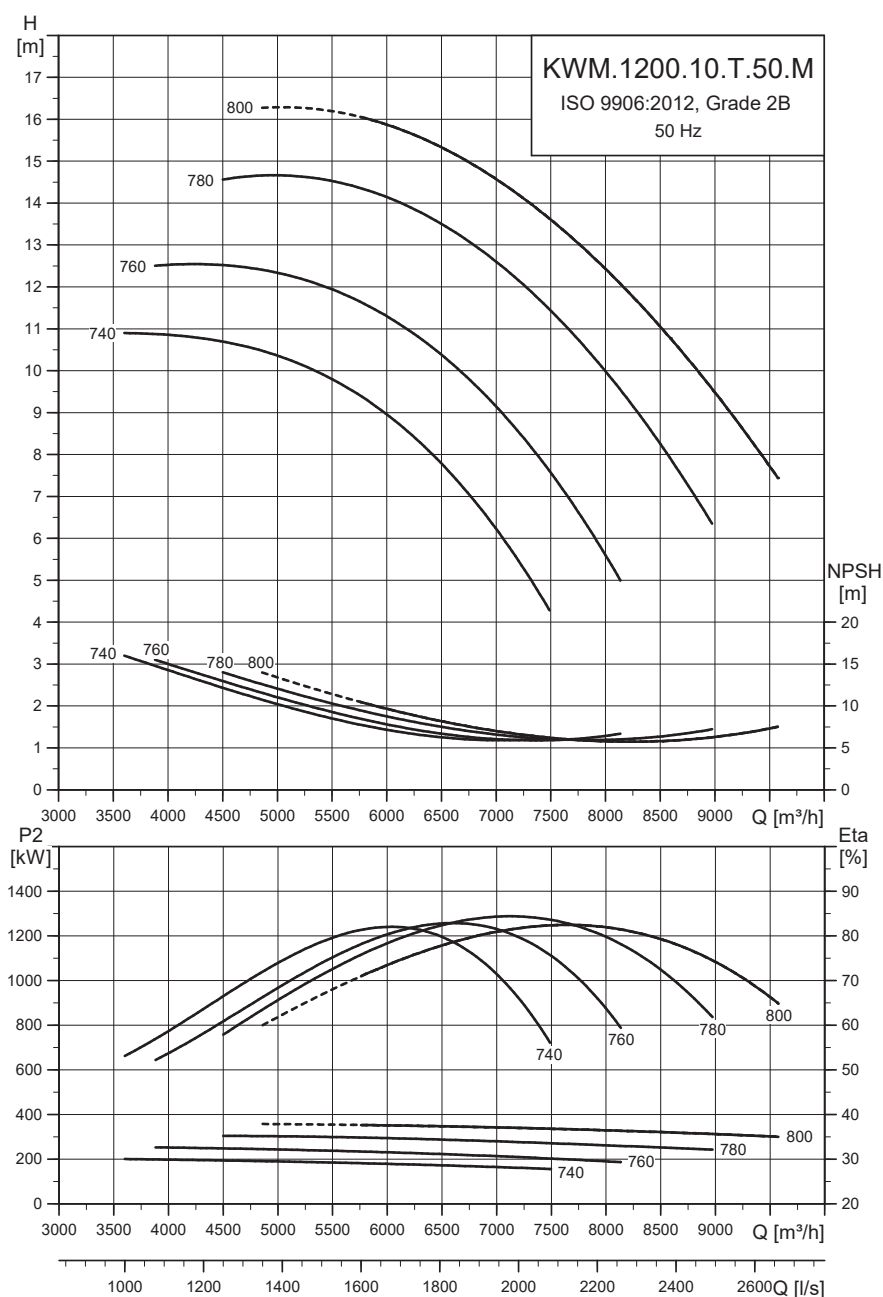
Pump data

Model	No of poles	Discharge column size [mm]	Propeller no	Propeller diam. [mm]	No of blades	Free passage [mm]	Min. flow rate [m³/h]	Moment of inertia [kgm²]	
								Motor	Propeller
KWM.1200.350.8.T.50.740.M	8	1200	-	740	3	125	6780	130.9	10.5
KWM.1200.400.8.T.50.740.M	8	1200	-	740	3	125	4469	137.7	10.5
KWM.1200.400.8.T.50.750.M	8	1200	-	750	3	125	6881	137.7	10.6
KWM.1200.450.8.T.50.750.M	8	1200	-	750	3	125	4643	174.8	10.6
KWM.1200.450.8.T.50.760.M	8	1200	-	760	3	125	6970	174.8	10.7
KWM.1200.500.8.T.50.760.M	8	1200	-	760	3	125	4818	193.5	10.7
KWM.1200.500.8.T.50.770.M	8	1200	-	770	3	125	7310	193.5	10.8
KWM.1200.550.8.T.50.770.M	8	1200	-	770	3	125	5141	210.4	10.8
KWM.1200.550.8.T.50.780.M	8	1200	-	780	3	125	5479	210.4	10.9

Electrical data

Model	P2 [kW]	min ⁻¹	I _{start} [A]		I _N [A]		η _{motor} [%]			Cos φ			Breakdown torque [Nm]
			380 V	400 V	380 V	400 V	1/2	3/4	1/1	1/2	3/4	1/1	
KWM.1200.350.8.T.50.740.M	350	720	3654.7	3472.0	664.5	631.3	93.4	93.5	93.6	74.1	82.5	85.5	10384.7
KWM.1200.400.8.T.50.740.M	400	720	4143.7	3936.5	753.4	715.7	93.6	93.7	93.8	75.9	83.2	86.0	12908.6
KWM.1200.400.8.T.50.750.M	400	720	4143.7	3936.5	753.4	715.7	93.6	93.7	93.8	75.9	83.2	86.0	12908.6
KWM.1200.450.8.T.50.750.M	450	720	4640.5	4408.5	843.7	801.5	93.7	93.8	93.9	85.6	83.7	86.3	14111.4
KWM.1200.450.8.T.50.760.M	450	720	4640.5	4408.5	843.7	801.5	93.7	93.8	93.9	85.6	83.7	86.3	14111.4
KWM.1200.500.8.T.50.760.M	500	720	5109.7	4854.2	929.0	882.6	94.0	94.1	94.1	76.8	84.4	86.9	16239.3
KWM.1200.500.8.T.50.770.M	500	720	5109.7	4854.2	929.0	882.6	94.0	94.1	94.1	76.8	84.4	86.9	16239.3
KWM.1200.550.8.T.50.770.M	550	720	5569.8	5291.3	1012.7	962.1	94.0	94.1	94.2	77.2	84.9	87.6	16888.8
KWM.1200.550.8.T.50.780.M	550	720	5569.8	5291.3	1012.7	962.1	94.0	94.1	94.2	77.2	84.9	87.6	16888.8

8.52 KWM.1200.---.10.T.50.M



TM065038

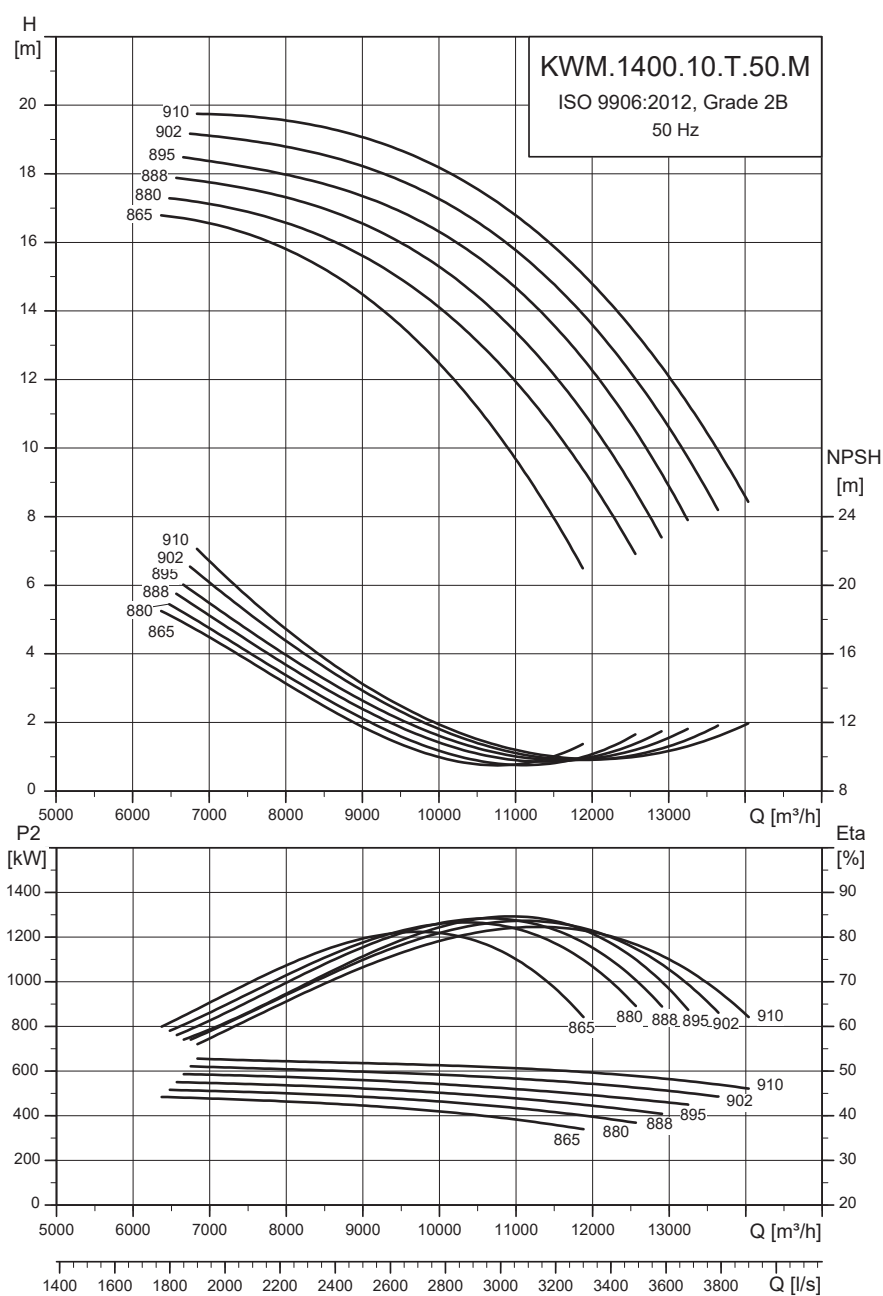
Pump data

Model	No of poles	Discharge column size [mm]	Propeller no	Propeller diam. [mm]	No of blades	Free passage [mm]	Min. flow rate [m³/h]	Moment of inertia [kgm²]	
								Motor	Propeller
KWM.1200.200.10.T.50.740.M	10	1200	-	740	3	125	3600	78.8	10.5
KWM.1200.220.10.T.50.740.M	10	1200	-	740	3	125	3600	76.4	10.5
KWM.1200.220.10.T.50.760.M	10	1200	-	760	3	125	6500	76.4	10.7
KWM.1200.250.10.T.50.760.M	10	1200	-	760	3	125	3880	83.9	10.7
KWM.1200.300.10.T.50.780.M	10	1200	-	780	3	125	4500	142.8	10.9
KWM.1200.350.10.T.50.780.M	10	1200	-	780	3	125	4500	155.9	10.9
KWM.1200.350.10.T.50.800.M	10	1200	-	800	3	125	4860	155.9	11

Electrical data

Model	P2 [kW]	min ⁻¹	I _{start} [A]		I _N [A]		η _{motor} [%]		Cos φ				Breakdown torque [Nm]
			380 V	400 V	380 V	400 V	1/2	3/4	1/1	1/2	3/4	1/1	
KWM.1200.200.10.T.50.740.M	200	580	2458.8	2335.8	423.9	402.7	91.7	91.8	91.9	63.4	73.2	78.0	7911.2
KWM.1200.220.10.T.50.740.M	220	580	2551.4	2423.9	455.6	432.8	92.3	92.4	92.4	64.1	75.5	79.4	8097.6
KWM.1200.220.10.T.50.760.M	220	580	2551.4	2423.9	455.6	432.8	92.3	92.4	92.4	64.1	75.5	79.4	8097.6
KWM.1200.250.10.T.50.760.M	250	580	2844.7	2702.5	517.2	491.4	91.5	91.7	91.8	67.3	77.6	80.0	9162.4
KWM.1200.300.10.T.50.780.M	300	580	3364.2	3196.0	611.7	581.1	91.8	91.9	92.0	68.1	78.4	81.0	10800.2
KWM.1200.350.10.T.50.780.M	350	580	3889.3	3694.8	707.1	671.8	92.4	92.5	92.5	68.5	78.8	81.3	12317.8
KWM.1200.350.10.T.50.800.M	350	580	3889.3	3694.8	707.1	671.8	92.4	92.5	92.5	68.5	78.8	81.3	12317.8

8.53 KWM.1400.---.10.T.50.M



TM065037

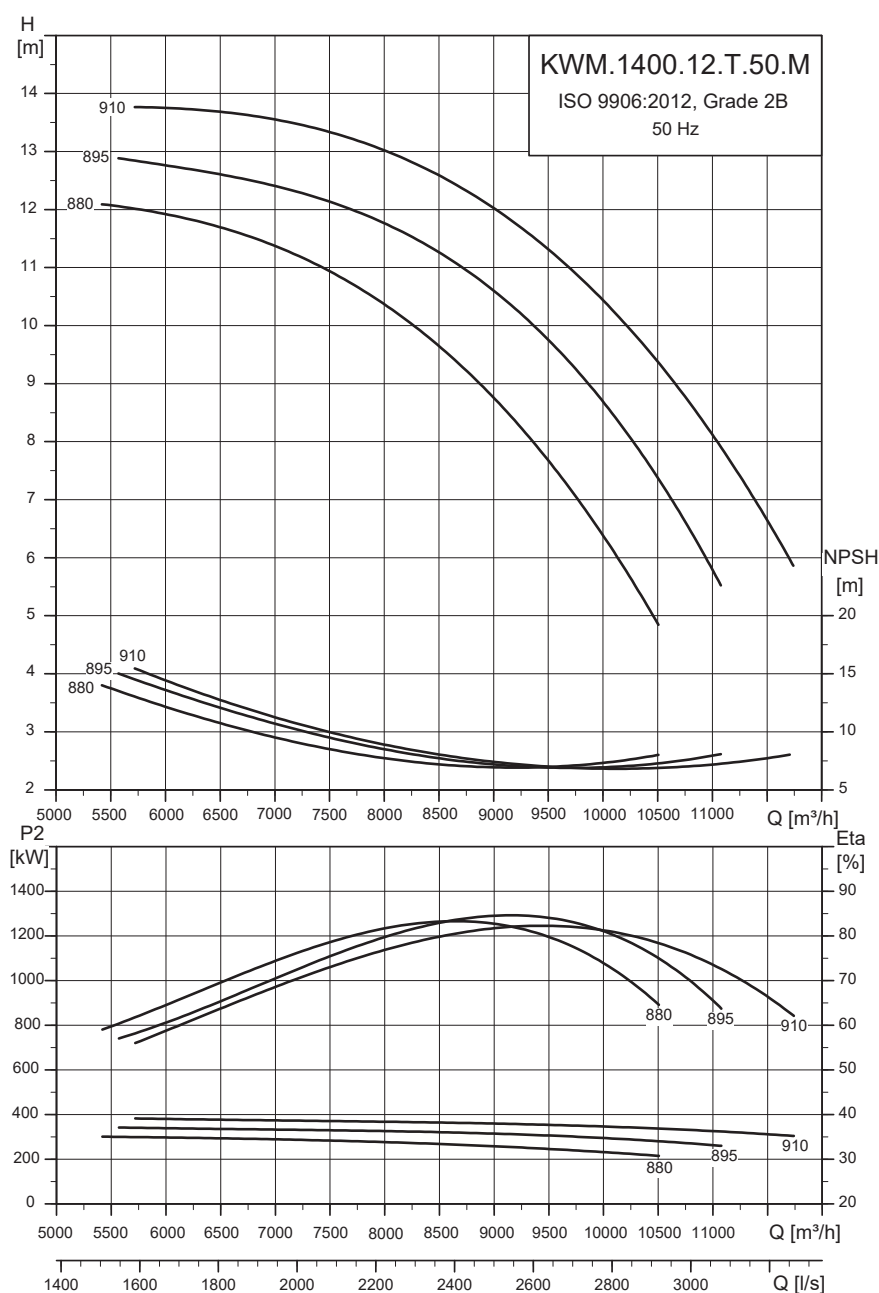
Pump data

Model	No of poles	Discharge column size [mm]	Propeller no	Propeller diam. [mm]	No of blades	Free passage [mm]	Min. flow rate [m³/h]	Moment of inertia [kgm²]	
								Motor	Propeller
KWM.1400.450.10.T.50.865.M	10	1400	-	865	3	115	6372	243.7	14.5
KWM.1400.450.10.T.50.880.M	10	1400	-	880	3	115	6480	243.7	14.6
KWM.1400.500.10.T.50.865.M	10	1400	-	865	3	115	6372	270.8	14.5
KWM.1400.500.10.T.50.880.M	10	1400	-	880	3	115	6480	270.8	14.6
KWM.1400.500.10.T.50.888.M	10	1400	-	888	3	115	6570	270.8	14.7
KWM.1400.550.10.T.50.888.M	10	1400	-	888	3	115	6570	311.2	14.7
KWM.1400.550.10.T.50.895.M	10	1400	-	895	3	115	9360	311.2	14.8
KWM.1400.600.10.T.50.895.M	10	1400	-	895	3	115	6660	326.2	14.8
KWM.1400.600.10.T.50.902.M	10	1400	-	902	3	115	9180	326.2	14.9
KWM.1400.650.10.T.50.902.M	10	1400	-	902	3	115	6660	393.7	14.9
KWM.1400.650.10.T.50.910.M	10	1400	-	910	3	115	6840	393.7	15

Electrical data

Model	P2 [kW]	min ⁻¹	I _{start} [A]		I _N [A]		η _{motor} [%]		Cos φ				Breakdown torque [Nm]
			380 V	400 V	380 V	400 V	1/2	3/4	1/1	1/2	3/4	1/1	
KWM.1400.450.10.T.50.865.M	450	580	4776.1	4537.3	868.4	825.0	93.1	93.2	93.4	74.7	81.6	84.3	17491.7
KWM.1400.450.10.T.50.880.M	450	580	4776.1	4537.3	868.4	825.0	93.1	93.2	93.4	74.7	81.6	84.3	17491.7
KWM.1400.500.10.T.50.865.M	500	580	5239.5	4977.5	952.6	905.0	93.4	93.6	93.6	75.4	82.4	85.2	19373.6
KWM.1400.500.10.T.50.880.M	500	580	5239.5	4977.5	952.6	905.0	93.4	93.6	93.6	75.4	82.4	85.2	19373.6
KWM.1400.500.10.T.50.888.M	500	580	5239.5	4977.5	952.6	905.0	93.4	93.6	93.6	75.4	82.4	85.2	19373.6
KWM.1400.550.10.T.50.888.M	550	580	5161.6	4903.6	1032.3	980.7	93.6	93.7	93.8	76.6	84.1	86.3	21641.8
KWM.1400.550.10.T.50.895.M	550	580	5161.6	4903.6	1032.3	980.7	93.6	93.7	93.8	76.6	84.1	86.3	21641.8
KWM.1400.600.10.T.50.895.M	600	580	5586.5	5307.2	1117.3	1061.4	93.9	94.0	94.0	76.2	84.6	86.8	23427.8
KWM.1400.600.10.T.50.902.M	600	580	5586.5	5307.2	1117.3	1061.4	93.9	94.0	94.0	76.2	84.6	86.8	23427.8
KWM.1400.650.10.T.50.902.M	650	580	6024.3	5723.1	1204.9	1144.6	93.9	94.0	94.0	77.0	85.7	87.2	25546.8
KWM.1400.650.10.T.50.910.M	650	580	6024.3	5723.1	1204.9	1144.6	93.9	94.0	94.0	77.0	85.7	87.2	25546.8

8.54 KWM.1400.----.12.T.50.M



TM065036

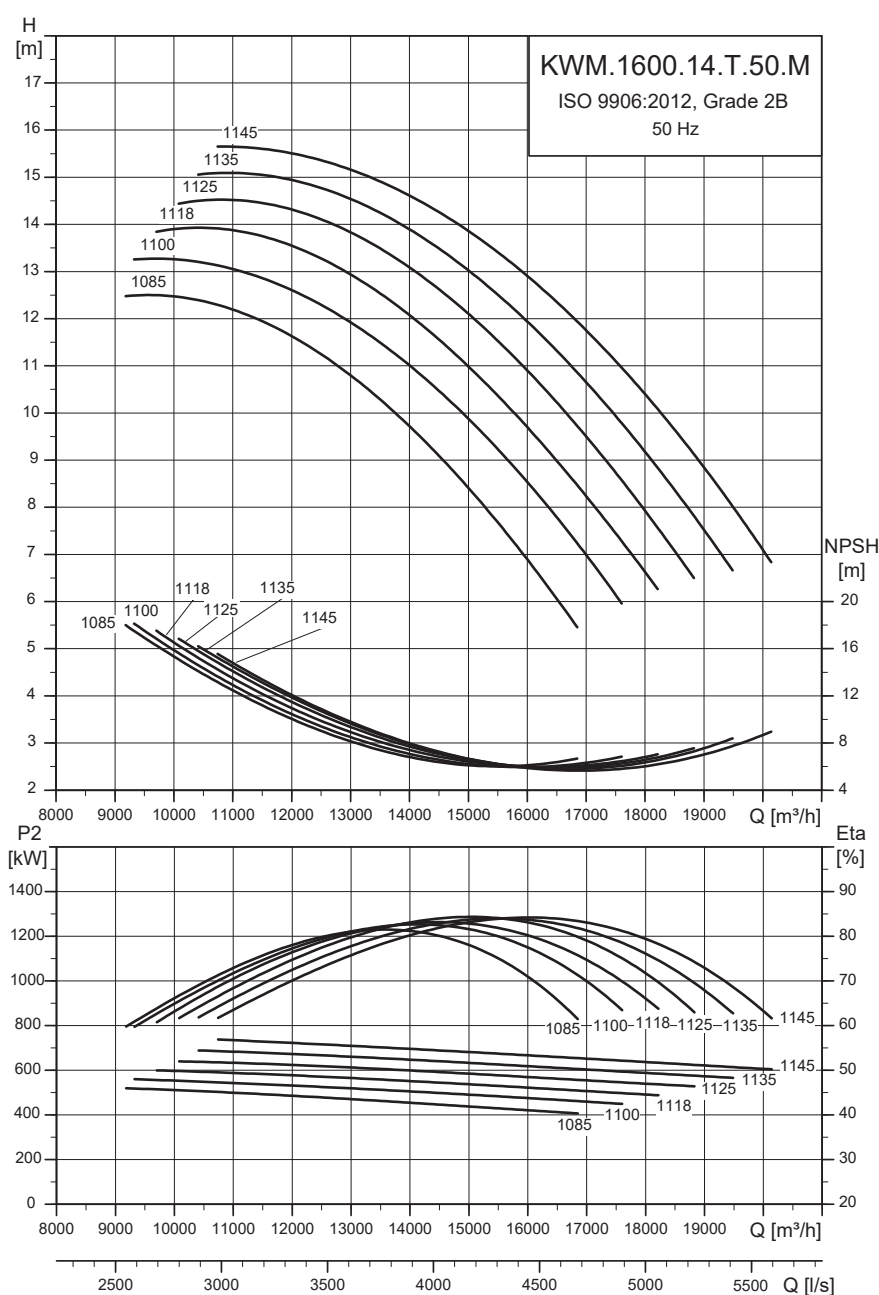
Pump data

Model	No of poles	Discharge column size [mm]	Propeller no	Propeller diam. [mm]	No of blades	Free passage [mm]	Min. flow rate [m³/h]	Moment of inertia [kgm²]	
								Motor	Propeller
KWM.1400.300.12.T.50.880.M	12	1400	-	880	3	115	5419	146.4	14.6
KWM.1400.350.12.T.50.895.M	12	1400	-	895	3	115	5569	244.9	14.8
KWM.1400.400.12.T.50.910.M	12	1400	-	910	3	115	5720	289.4	15

Electrical data

Model	P2 [kW]	min ⁻¹	I _{start} [A]		I _N [A]		η _{motor} [%]		Cos φ				Breakdown torque [Nm]
			380 V	400 V	380 V	400 V	1/2	3/4	1/1	1/2	3/4	1/1	
KWM.1400.300.12.T.50.880.M	300	485	3486.0	3311.7	633.8	602.1	92.1	92.2	92.2	65.2	76.5	78.0	12511.7
KWM.1400.350.12.T.50.895.M	350	485	4101.2	3896.2	732.4	695.7	92.4	92.5	92.5	65.4	74.9	78.5	15204.3
KWM.1400.400.12.T.50.910.M	400	485	4580.9	4351.9	832.9	791.3	92.5	92.6	92.6	65.7	75.2	78.8	17219.8

8.55 KWM.1600.---.14.T.50.M



TM065035

Pump data

Model	No of poles	Discharge column size [mm]	Propeller no	Propeller diam. [mm]	No of blades	Free passage [mm]	Min. flow rate [m³/h]	Moment of inertia [kgm²]	
								Motor	Propeller
KWM.1600.500.14.T.50.1085.M	14	1600	-	1085	3	150	9180	422.7	31.6
KWM.1600.550.14.T.50.1100.M	14	1600	-	1100	3	150	9324	464.93	31.7
KWM.1600.550.14.T.50.1118.M	14	1600	-	1118	3	150	9702	464.93	31.8
KWM.1600.600.14.T.50.1118.M	14	1600	-	1118	3	150	9702	507.2	31.8
KWM.1600.600.14.T.50.1125.M	14	1600	-	1125	3	150	10080	507.2	31.9
KWM.1600.650.14.T.50.1125.M	14	1600	-	1125	3	150	10080	549.5	31.9
KWM.1600.650.14.T.50.1135.M	14	1600	-	1135	3	150	10411	549.5	32
KWM.1600.700.14.T.50.1135.M	14	1600	-	1135	3	150	10411	591.73	32
KWM.1600.700.14.T.50.1145.M	14	1600	-	1145	3	150	10742	591.73	32.1

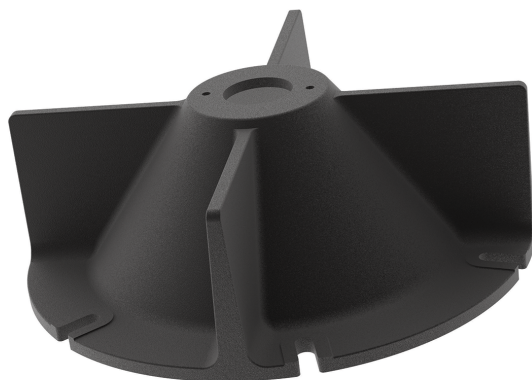
Electrical data

Model	P2 [kW]	min ⁻¹	I _{start} [A]		I _N [A]		η _{motor} [%]		Cos φ				Breakdown torque [Nm]
			380 V	400 V	380 V	400 V	1/2	3/4	1/1	1/2	3/4	1/1	
KWM.1600.500.14.T.50.1085.M	500	410	5277.1	5013.3	1055.4	1002.7	92.3	92.4	92.4	60.0	71.8	77.9	23980.7
KWM.1600.550.14.T.50.1100.M	550	410	5791.2	5501.6	1158.2	1100.3	92.4	92.5	92.5	60.2	71.9	78.0	26378.8
KWM.1600.550.14.T.50.1118.M	550	410	5791.2	5501.6	1158.2	1100.3	92.4	92.5	92.5	60.2	71.9	78.0	26378.8
KWM.1600.600.14.T.50.1118.M	600	410	6295.9	5981.1	1259.2	1196.2	92.4	92.6	92.7	60.3	72.0	78.1	28776.9
KWM.1600.600.14.T.50.1125.M	600	410	6295.9	5981.1	1259.2	1196.2	92.4	92.6	92.7	60.3	72.0	78.1	28776.9
KWM.1600.650.14.T.50.1125.M	650	410	6788.5	6449.1	1357.7	1289.8	92.8	92.9	92.9	60.6	72.1	78.3	31074.9
KWM.1600.650.14.T.50.1135.M	650	410	6788.5	6449.1	1357.7	1289.8	92.8	92.9	92.9	60.6	72.1	78.3	31074.9
KWM.1600.700.14.T.50.1135.M	700	410	7277.9	6914.0	1455.6	1382.8	93.0	93.1	93.2	61.0	72.3	78.4	33573.0
KWM.1600.700.14.T.50.1145.M	700	410	7277.9	6914.0	1455.6	1382.8	93.0	93.1	93.2	61.0	72.3	78.4	33573.0

9. Accessories

Accessories must be ordered separately. Contact Grundfos.

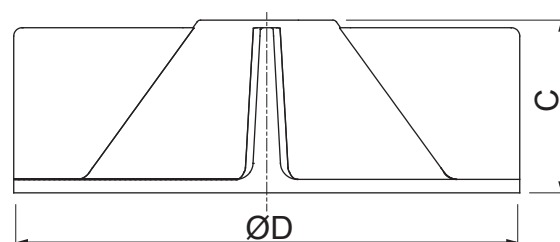
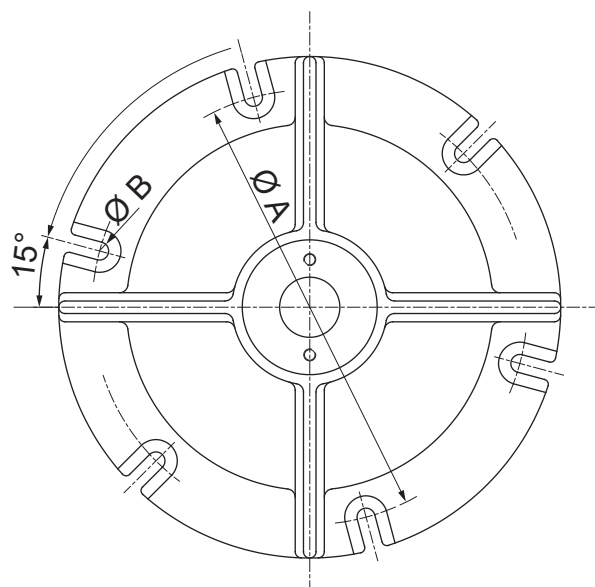
9.1 Anti-cavitation cone



TM073849

Anti-cavitation cone

The anti-cavitation cone (ACC) provides an optimal inlet flow to a vertically installed KPL or KWM axial-flow pump. The anti-cavitation cone prevents cavitation, pre-swirls, fluid separation and reduces vortices.



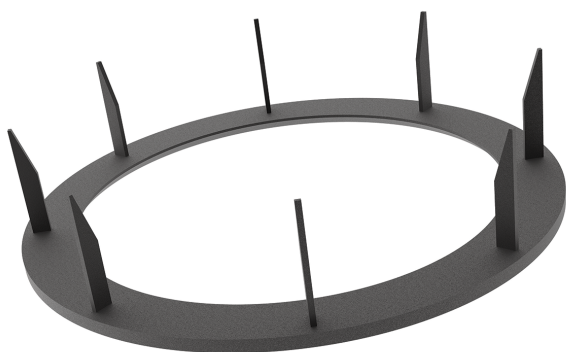
Dimensions

ACC	ØA [mm]	ØB [mm]	C [mm]	ØD [mm]	Weight [kg]	Foundation bolt	Pipe DN
60 ACC	520	20	205	600	65	M36x500L-6ea	500-800
100 ACC	870	36	330	1000	230	M36x500L-6ea	900-1100
120 ACC	1040	42	400	1200	380	M36x500L-6ea	1200-1400
150 ACC	1300	48	520	1500	670	M42x350L-6ea	1300-1800

Order data

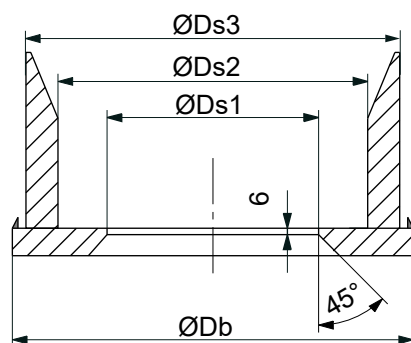
Description	Product number
Anti-cavitation cone (column 500-800)	99250895
Anti-cavitation cone (column 900-1100)	99339166
Anti-cavitation cone (column 1200-1400)	99258997
Anti-cavitation cone (column 1500-1800)	99414878

9.2 Seat ring

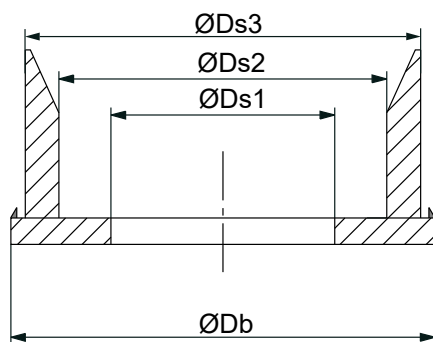


TM073848

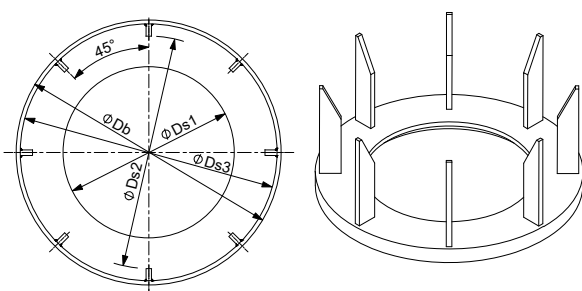
A seat ring is designed to be welded to the vertical column pipe in which the axial-flow pump is installed. The seat ring keeps the pump in the optimum position during operation.



Seat ring for KPL



Seat ring for KWM



TM073708

Dimensions

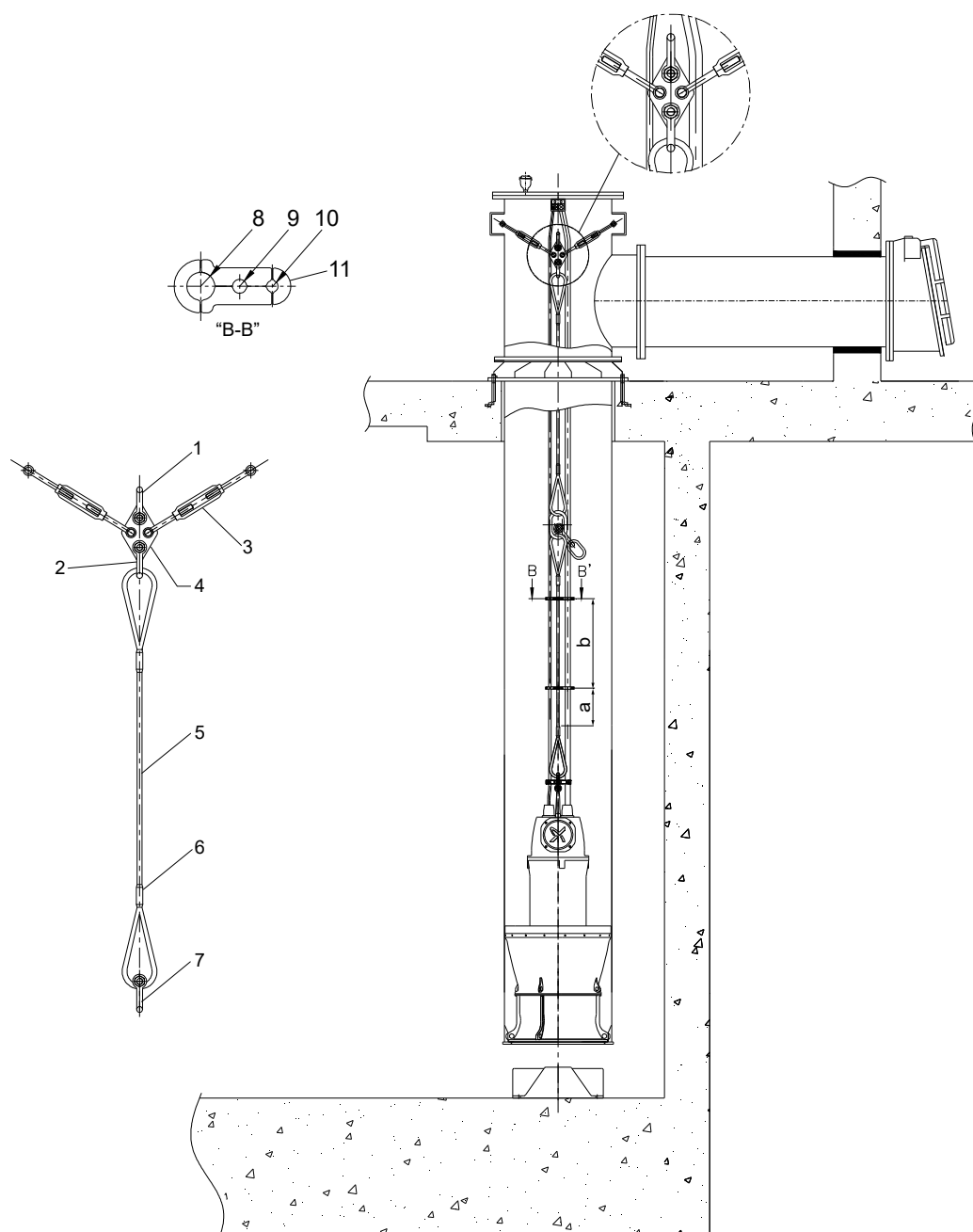
Pipe DN	Model	ØDb [mm]	ØDs1 [mm]	ØDs2 [mm]
500	KPL	525	325	400
600		630	450	530
700		735	550	630
800		835	650	730
900 (L)		940	650	730
900 (E)		940	750	830
1000		1040	830	930
1200		1245	1000	1120
1400		1450	1200	1310
1500		1550	1280	1420
1600	KWM	1650	1400	1520
1800		1855	1600	1720
600		630	450	530
700		735	550	630
800		835	650	730
900		940	750	830
1000		1040	830	930
1200		1245	1000	1120
1400		1450	1200	1310
1600		1650	1400	1520
1800		1855	1720	1600

Order data

Column diameter	Model	Product number
Seat ring column 500	KPL	99414931
Seat ring column 600		99414934
Seat ring column 700		99250880
Seat ring column 800		99356016
Seat ring column 900		99414937
Seat ring column 900		99448030
Seat ring column 1000		99339151
Seat ring column 1200		99414938
Seat ring column 1400		99247437
Seat ring column 1500		99414940
Seat ring column 1600	KWM	99414942
Seat ring column 1800		99414952
Seat ring column 600		99290829
Seat ring column 700		99414974
Seat ring column 800		99414975
Seat ring column 900		99414976
Seat ring column 1000		99225235
Seat ring column 1200		99414977
Seat ring column 1400		99414978
Seat ring column 1500		99414979
Seat ring column 1600		99414980
Seat ring column 1800		99414981

9.3 Cable suspension system

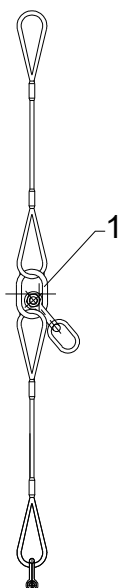
Cable suspension system is necessary for column-installed pumps to fix the cables in a proper position. If the cables are not held correctly, damages may occur which can cause water to leak into the motor.



Pos.	Description
1	Shackle 1
2	Shackle 2
3	Turnbuckle
4	Wire holder
5	Wire rope
6	Wire clamp
7	Shackle 3
8	Power cable
9	Wire rope

Pos.	Description
10	Sensor cable
11	Cable clamp
a	300 mm
b	500 mm

TM055940



TM077742

Intermediate lifting ring (optional)

1	Master link
---	-------------

Note: The standard cable suspension system is not approved as lifting equipment. If it is to be used as lifting equipment the wire rope, the master links and the shackles must be purchased locally with the right certificates and rated for the weight of the pump and the cables.

9.3.1 Lifting chains



TM073749

Lifting chain with shackle, DoC, certificate and work instructions	Hot galvanized DIN Product number	Stainless steel (EN 1.4404) DIN Product number	Stainless steel (EN 1.4571/A4) DIN Product number
Lifting chain 500 kg, 2 m cert. cpl.	N/A	N/A	98538174
Lifting chain 500 kg, 3 m cert. cpl.	N/A	N/A	98538175
Lifting chain 500 kg, 4 m cert. cpl.	N/A	N/A	98538176
Lifting chain 500 kg, 6 m cert. cpl.	N/A	N/A	98538177
Lifting chain 500 kg, 8 m cert. cpl.	N/A	N/A	98538178
Lifting chain 500 kg, 10 m cert. cpl.	N/A	N/A	98538179



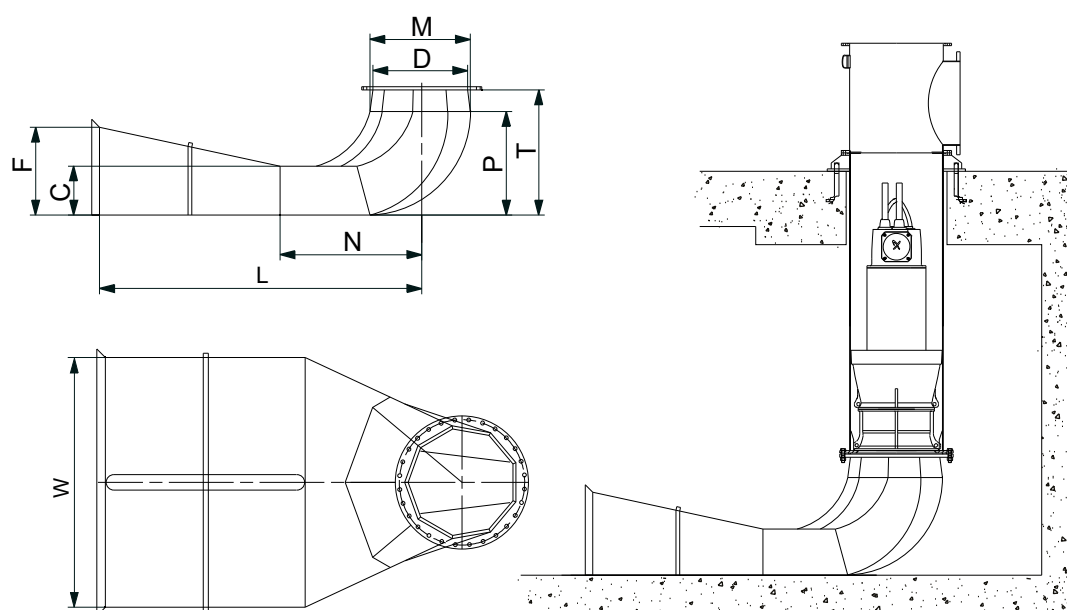
TM073748

Lifting chain with hook, DoC, certificate and work instructions	Hot galvanized DIN Product number	Stainless steel (EN 1.4404) DIN Product number	Stainless steel (EN 1.4571/A4) DIN Product number
Lifting chain 800 kg, 2 m cert. cpl.	98425759	N/A	98425796
Lifting chain 800 kg, 4 m cert. cpl.	98425760	N/A	98425797
Lifting chain 800 kg, 6 m cert. cpl.	98425781	N/A	98425798
Lifting chain 800 kg, 8 m cert. cpl.	98425782	N/A	98425799
Lifting chain 800 kg, 10 m cert. cpl.	98425783	N/A	98425800
Lifting chain 2000 kg, 4 m cert. cpl.	98425784	N/A	98425801
Lifting chain 2000 kg, 6 m cert. cpl.	98425785	N/A	98425802
Lifting chain 2000 kg, 8 m cert. cpl.	98425786	N/A	98425803
Lifting chain 2000 kg, 10 m cert. cpl.	98425787	N/A	98425804
Lifting chain 3200 kg, 4 m cert. cpl.	98425788	N/A	98425805
Lifting chain 3200 kg, 6 m cert. cpl.	98425789	N/A	98425806
Lifting chain 3200 kg, 8 m cert. cpl.	98425790	N/A	98425807
Lifting chain 3200 kg, 10 m cert. cpl.	98425791	N/A	98425808
Lifting chain 8000 kg, 4 m cert. cpl.	98425792	98425809	N/A
Lifting chain 8000 kg, 6 m cert. cpl.	98425793	98425810	N/A
Lifting chain 8000 kg, 8 m cert. cpl.	98425794	98425811	N/A
Lifting chain 8000 kg, 10 m cert. cpl.	98425795	98425812	N/A

9.4 Formed Suction Intake (FSI)

The FSI is designed to improve the inlet flow conditions to the pump and to enable a lower minimum water level.

Note: The formed suction intake is an accessory item and can be adapted to the specific pump.



TM073709

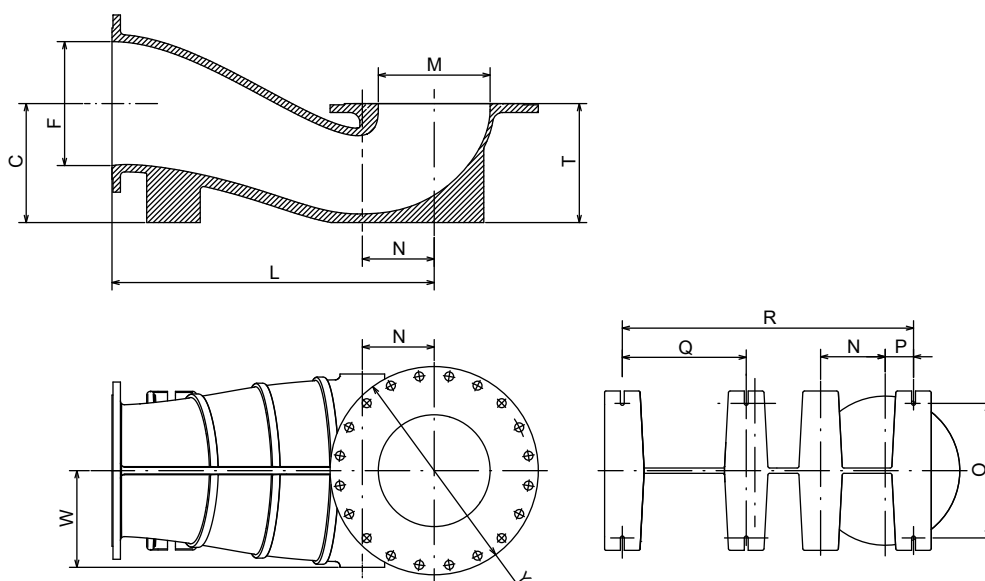
Left: Dimensional drawings. Right: installation example with Formed Suction intake (FSI).

Nominal column diameter	Formed suction intake (FSI) steel version							
D [mm]	C [mm]	F [mm]	L [mm]	M [mm]	N [mm]	P [mm]	T [mm]	W [mm]
500	250	440	1650	530	725	530	640	1155
600	300	528	1980	636	870	636	768	1386
650	330	572	2145	689	943	689	832	1502
700	350	616	2310	742	1015	742	896	1617
800	400	704	2640	848	1160	848	1024	1848
900	450	792	2970	954	1305	954	1152	2079
1000	500	880	3300	1060	1450	1060	1280	2310
1200	600	1056	3960	1272	1740	1272	1536	2772
1400	700	1232	4620	1484	2030	1484	1792	3234
1500	750	1320	4950	1590	2175	1590	1920	3465
1600	800	1408	5280	1696	2320	1696	2048	3696
1800	900	1584	5940	1908	2610	1908	2304	4158

9.5 Compact Suction Intake (CSI)

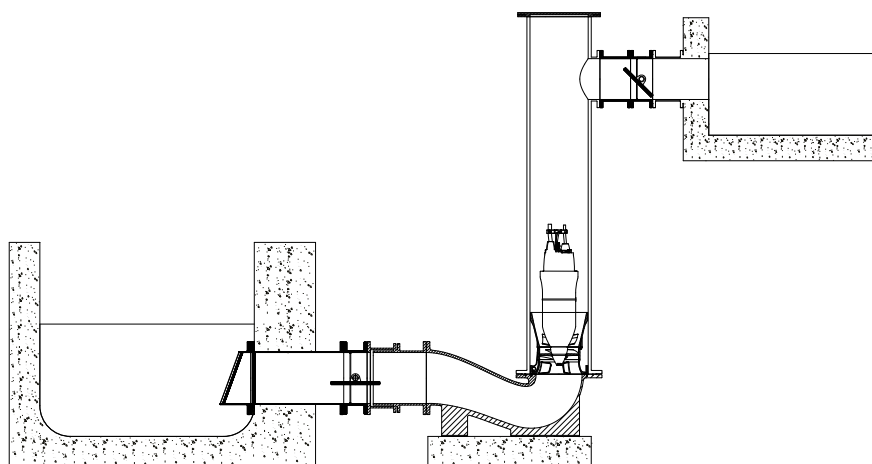
The CSI is designed to improve the inlet flow conditions to the pump and to enable a lower minimum water level.

Note: The formed suction intake is an accessory item and can be adapted to the specific pump.



TM073843

Nominal diameter	C [mm]	F [mm]	L [mm]	M [mm]	N [mm]	T [mm]	W [mm]	O [mm]	P [mm]	Q [mm]	R [mm]	Y	Weight [kg]	Anchor bolt [mm]	Low water level [mm]
500	360	400	1100	325	210	370	270	370	75	-	1135	715 (DIN 500 PN16)	300	4 x M24 x 300	870
600	480	500	1300	451	290	480	390	510	100	-	1360	840 (DIN 600 PN16)	600	4 x M30 x 350	1080
650	480	500	1300	451	290	480	390	510	100	-	1360	845 (KS B 0429-02-10K)	600	4 x M30 x 350	1080
700	560	600	1600	550	360	540	450	670	135	-	1710	910 (DIN 700 PN16)	800	4 x M30 x 350	1240
800	630	700	1900	650	420	620	530	800	140	-	2020	1025 (DIN 800 PN16)	1000	4 x M42 x 400	1420
1000	790	900	2300	832	530	760	660	1010	220	-	2090	1255 (DIN 1000 PN16)	2000	4 x M42 x 400	1760
1200	970	1200	2800	1000	620	940	800	1370	230	-	2530	1485 (DIN 1200 PN16)	4000	4 x M42 x 400	2140
1400	1120	1400	3500	1200	720	1050	1000	1570	320	1400	3290	1685 (DIN 1400 PN16)	6500	6 x M42 x 400	2450
1500	1190	1400	3600	1280	800	1120	1000	1570	350	1420	3420	1795 (KS B 0429-02-10K)	7500	6 x M42 x 400	2620
1600	1360	1600	3800	1400	850	1280	1060	1670	350	1510	3650	1930 (DIN 1600 PN16)	9000	6 x M42 x 400	2880
1800	1540	1800	4400	1600	1000	1490	1180	1770	450	1790	4290	2130 (DIN 1800 PN16)	10000	6 x M42 x 400	3290



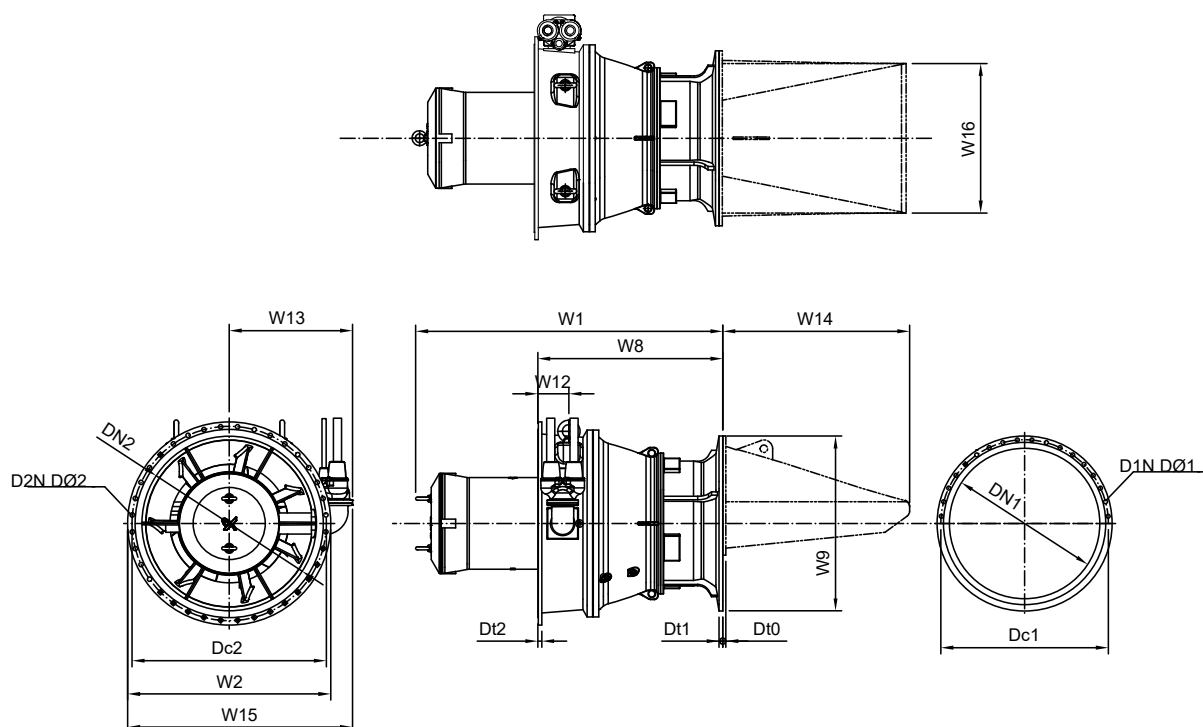
TM073844

Installation example with Compact Suction Intake (CSI)

9.6 KPG with vortex breaker

The vortex breaker is designed to:

- prevent pre-swirl at the inlet of the pump
- protect the intake from unexpected matter
- allow operation at lower water levels.

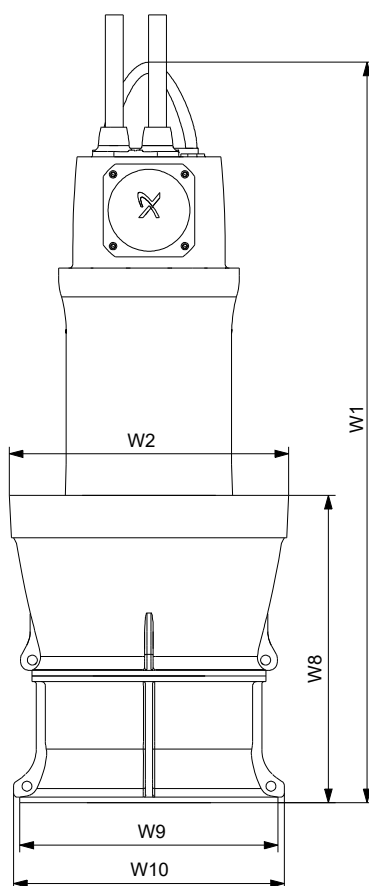


TM073750

DN size [mm]	W9 [mm]	W14 [mm]	W16 [mm]	Dc1 [mm]	Dt0 [mm]	D1N [mm]	DØ1 [mm]
500	450	480	330	405	20	6	22
600	570	610	450	525	20	8	22
700	650	690	530	605	24	10	22
800	740	790	600	690	24	10	26
900	800	850	660	750	24	12	26
1000	1000	1070	830	945	24	12	26
1200	1100	1110	920	1040	28	14	26
1400	1400	1500	1200	1335	32	14	30

10. Pump dimensions

10.1 KPL dimensions



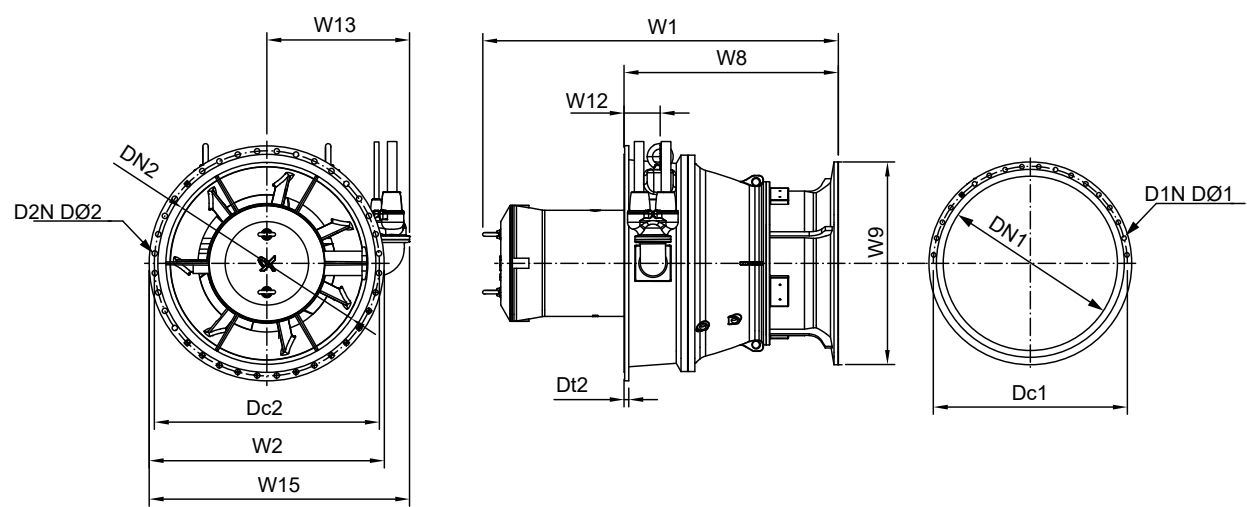
TM055941

Pump type	Weight [kg]	W1 [mm]	W8 [mm]	W2 [mm]	W9 [mm]	W10 [mm]
KPL.500.11.4.T.50.L	320	1165				
KPL.500.15.4.T.50.L	330	1165				
KPL.500.19.4.T.50.L	430	1315	515	490	390	430
KPL.500.22.4.T.50.L	440	1315				
KPL.600.19.6.T.50.L	520	1395				
KPL.600.22.6.T.50.L	520	1395	655	590	520	560
KPL.600.19.6.T.50.E	520	1394	615	590	520	560
KPL.600.22.6.T.50.E	520	1394				
KPL.650.30.6.T.50.L	600	1754	655	640	520	560
KPL.650.37.6.T.50.L	620	1754				
KPL.700.55.6.T.50.L	930	1920				
KPL.700.75.6.T.50.L	1040	2075				
KPL.700.90.6.T.50.L	1080	2075				
KPL.700.110.6.T.50.L	1170	2225	700	690	620	660
KPL.700.30.8.T.50.L	860	1920				
KPL.700.37.8.T.50.L	900	1920				
KPL.700.45.8.T.50.L	970	2075				
KPL.700.22.8.T.50.E	840	1920				
KPL.700.30.8.T.50.L	860	1920	660	690	620	660
KPL.700.37.8.T.50.L	900	1920				

Pump type	Weight [kg]	W1 [mm]	W8 [mm]	W2 [mm]	W9 [mm]	W10 [mm]
KPL.800.110.6.T.50.L	1230	2285				
KPL.800.45.8.T.50.L	1040	2135				
KPL.800.55.8.T.50.L	1050	2135	925	790	720	775
KPL.800.75.8.T.50.L	1100	2135				
KPL.800.90.8.T.50.L	1230	2285				
KPL.800.37.8.T.50.E	960	1980				
KPL.800.45.8.T.50.E	1040	2135	750	790	720	775
KPL.800.55.8.T.50.E	1050	2135				
KPL.800.75.8.T.50.E	1100	2135				
KPL.900.132.6.T.50.L	2050	2500				
KPL.900.160.6.T.50.L	2090	2500	950	890	720	775
KPL.900.200.6.T.50.L	2300	2750				
KPL.900.55.8.T.50.E	1280	2355				
KPL.900.75.8.T.50.E	1330	2355	870	890	820	860
KPL.900.90.8.T.50.E	1420	2355				
KPL.900.110.8.T.50.E	1910	2500				
KPL.1000.132.8.T.50.L	2560	2675				
KPL.1000.160.8.T.50.L	2640	2875				
KPL.1000.200.8.T.50.L	2720	2875				
KPL.1000.250.8.T.50.L	2990	3115				
KPL.1000.300.8.T.50.L	3260	3115	1120	990	910	960
KPL.1000.90.10.T.50.L	2570	2625				
KPL.1000.132.10.T.50.L	2720	2875				
KPL.1000.160.10.T.50.L	2990	3115				
KPL.1000.200.10.T.50.L	3220	3115				
KPL.1000.75.10.T.50.E	2410	2625				
KPL.1000.90.10.T.50.E	2570	2625	990	990	910	960
KPL.1000.132.10.T.50.E	2690	2875				
KPL.1200.220.10.T.50.L	3940	3140				
KPL.1200.250.10.T.50.L	4070	3140				
KPL.1200.300.10.T.50.L	4460	3240				
KPL.1200.350.10.T.50.L	4720	3440				
KPL.1200.400.10.T.50.L	4900	3440	1335	1190	1100	1160
KPL.1200.160.12.T.50.L	3940	3140				
KPL.1200.200.12.T.50.L	4370	3240				
KPL.1200.250.12.T.50.L	4640	3240				
KPL.1200.300.12.T.50.L	4820	3240				
KPL.1200.132.12.T.50.E	3760	3140				
KPL.1200.160.12.T.50.E	3940	3140	1175	1190	110	1160
KPL.1200.200.12.T.50.E	4370	3240				
KPL.1200.220.12.T.50.E	4460	3240				
KPL.1400.220.12.T.50.L	4800	3290				
KPL.1400.250.12.T.50.L	4980	3290				
KPL.1400.300.12.T.50.L	5250	3450				
KPL.1400.350.12.T.50.L	5640	3870				
KPL.1400.400.12.T.50.L	5730	3870	1520	1390	1290	1360
KPL.1400.160.14.T.50.L	4710	3290				
KPL.1400.200.14.T.50.L	4800	3290				
KPL.1400.250.14.T.50.L	5610	3450				
KPL.1400.300.14.T.50.L	5730	3870				
KPL.1400.132.14.T.50.E	4620	3290				
KPL.1400.160.14.T.50.E	4710	3290	1320	1390	1290	1360
KPL.1400.200.14.T.50.E	4800	3290				
KPL.1400.250.14.T.50.E	5610	3450				

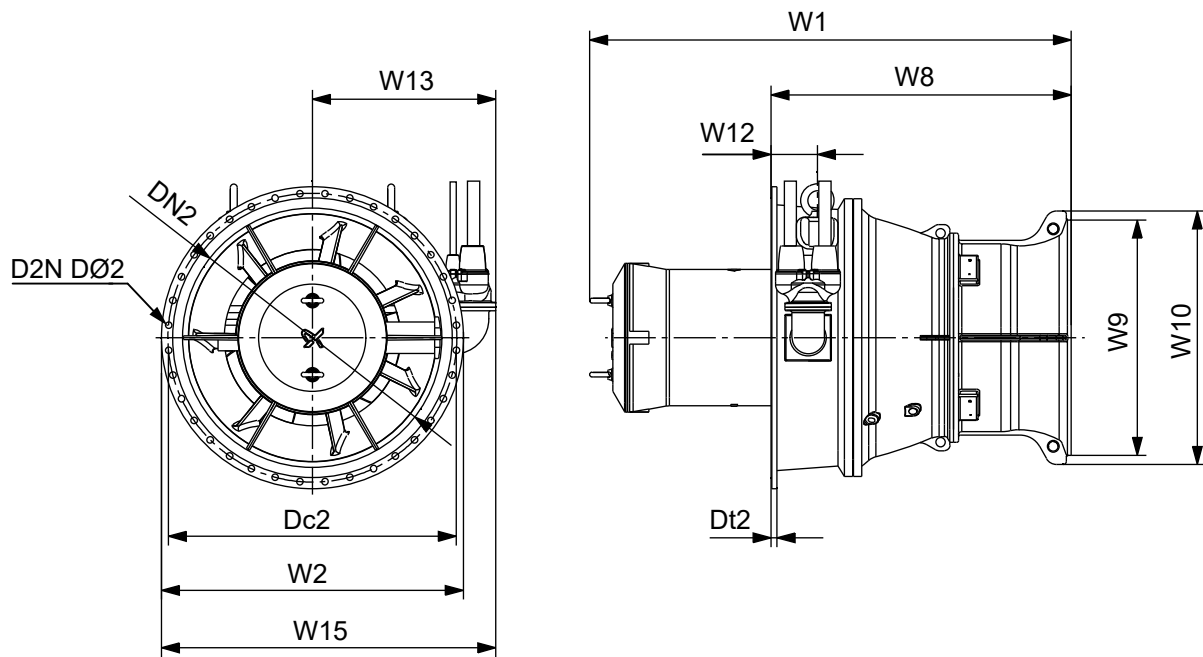
Pump type	Weight [kg]	W1 [mm]	W8 [mm]	W2 [mm]	W9 [mm]	W10 [mm]
KPL.1500.350.12.T.50.L	6140					
KPL.1500.400.12.T.50.L	6230					
KPL.1500.450.12.T.50.L	6410	4040				
KPL.1500.500.12.T.50.L	6770					
KPL.1500.220.14.T.50.L	5490		1680	1498	1400	1460
KPL.1500.250.14.T.50.L	6030	3720				
KPL.1500.300.14.T.50.L	6230					
KPL.1500.375.14.T.50.L	6770	4040				
KPL.1500.450.14.T.50.L	6950					
KPL.1500.200.14.T.50.E	5310					
KPL.1500.250.14.T.50.E	6030	3720				
KPL.1500.300.14.T.50.E	6230		1450	1498	1400	1460
KPL.1500.350.14.T.50.E	6410	4040				
KPL.1600.350.14.T.50.L	6680					
KPL.1600.400.14.T.50.L	7130	4055				
KPL.1600.500.14.T.50.L	8380					
KPL.1600.550.14.T.50.L	8560	4110				
KPL.1600.250.16.T.50.L	6680		1745	1588	1500	1560
KPL.1600.300.16.T.50.L	7130	4055				
KPL.1600.350.16.T.50.L	8290					
KPL.1600.400.16.T.50.L	8560	4110				
KPL.1600.450.16.T.50.L	8740					
KPL.1600.200.16.T.50.E	6210	3735				
KPL.1600.250.16.T.50.E	6680					
KPL.1600.300.16.T.50.E	7130	4055	1500	1588	1500	1560
KPL.1600.350.16.T.50.E	8290					
KPL.1600.400.16.T.50.E	8560	4110				
KPL.1800.450.16.T.50.L	9340					
KPL.1800.500.16.T.50.L	9880	4290				
KPL.1800.600.16.T.50.L	10720		1930	1780	1700	1760
KPL.1800.700.16.T.50.L	11170	4385				
KPL.1800.300.18.T.50.E	8890	4290				
KPL.1800.350.18.T.50.E	9680					
KPL.1800.400.18.T.50.E	9860		1630	1780	1700	1760
KPL.1800.450.18.T.50.E	10040	4285				
KPL.1800.500.18.T.50.E	10220					

10.2 KPG dimensions



TM073735

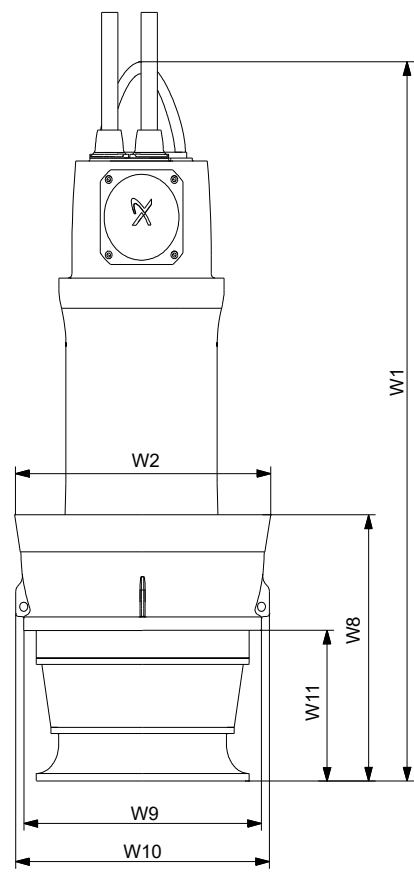
Pump type	Weight [kg]	W2 [mm]	W13 [mm]	W15 [mm]	Dc2 [mm]	DN2 [mm]	DØ2 [mm]	D2N [mm]	W1 [mm]	W8 [mm]	W9 [mm]	W12 [mm]	Dt2 [mm]	DN1 [mm]	DC1 [mm]	D1N [mm]	DØ1 [mm]
KPG.500.11.4.T.50.L	370																
KPG.500.19.4.T.50.L	460	645	495	817.5	600	DN 500	22	20	1000	620	450	130	25	330	405	6	22
KPG.500.22.4.T.50.L	470																
KPG.600.19.6.T.50.E	570	755	550	927.5	705	DN 600	26	20	1105	670	570	140	25	450	525	8	22
KPG.600.22.6.T.50.E	570																
KPG.700.22.8.T.50.E	980																
KPG.700.30.8.T.50.E	1000	860	605	1035	810	DN 700	26	24	1455	880	650	150	25	530	605	10	22
KPG.700.37.8.T.50.E	1050																
KPG.800.37.8.T.50.E	1100																
KPG.800.45.8.T.50.E	1180	975	655	1142.5	920	DN 800	30	24	1530	830	740	205	25	600	690	10	26
KPG.800.55.8.T.50.E	1200																
KPG.800.75.8.T.50.E	1250																
KPG.900.55.8.T.50.E	1490																
KPG.900.75.8.T.50.E	1540	1075	705	1242.5	1020	DN 900	30	24	1650	980	800	230	30	660	750	12	26
KPG.900.90.8.T.50.E	1630																
KPG.900.110.8.T.50E	1940																
KPG.1000.75.10.T.50E	2630																
KPG.1000.90.10.T.50E	2800	1175	790	1377.5	1120	DN 1000	30	28	1902	1150	1000	240	30	830	945	12	26
KPG.1000.132.10.T.50E	2930																
KPG.1200.132.12.T.50E	3880																
KPG.1200.160.12.T.50E	4060	1405	880	1582.5	1340	DN 1200	33	32	2227	1300	1100	240	30	920	1040	14	26
KPG.1200.200.12.T.50E	4400																
KPG.1200.220.12.T.50E	4490																
KPG.1400.132.14.T.50E	5010																
KPG.1400.160.14.T.50E	5100	1630	990	1805	1560	DN 1400	36	36	2559	1485	1400	250	32	1200	1335	14	30
KPG.1400.200.14.T.50E	5200																
KPG.1400.250.14.T.50E	5930																



TM075032

Pump type	Weight [kg]	W2 [mm]	W13 [mm]	W15 [mm]	Dc2 [mm]	DN2 [mm]	DØ2 [mm]	D2N [mm]	W1 [mm]	W8 [mm]	W9 [mm]	W10 [mm]	W12 [mm]	Dt2 [mm]
KPG.500.11.4.T.50.EB	370													
KPG.500.15.4.T.50.EB	390													
KPG.500.19.4.T.50.EB	460	645	495	817.5	600	500	22	20	1000	620	390	430	130	25
KPG.500.22.4.T.50.EB	470													
KPG.600.19.6.T.50.EB	570													
KPG.600.22.6.T.50.EB	570	755	550	927.5	705	600	26	20	1149	714	520	560	140	25
KPG.700.22.8.T.50.EB	980													
KPG.700.30.8.T.50.EB	1000	860	605	1035	810	700	26	24	1475	900	620	660	150	25
KPG.700.37.8.T.50.EB	1050													
KPG.800.37.8.T.50.EB	1100													
KPG.800.45.8.T.50.EB	1180													
KPG.800.55.8.T.50.EB	1200	975	655	1142.5	920	800	30	24	1640	940	720	775	205	25
KPG.800.75.8.T.50.EB	1250													
KPG.900.75.8.T.50.EB	1540													
KPG.900.90.8.T.50.EB	1630	1075	705	1242.5	1020	900	30	24	1760	1090	720	775	230	30
KPG.900.110.8.T.50.EB	1940													
KPG.1000.75.10.T.50.EB	2630													
KPG.1000.90.10.T.50.EB	2800	1175	790	1377.5	1120	1000	30	28	2001.5	1250	910	960	240	30
KPG.1000.132.10.T.50.EB	2930													
KPG.1200.132.12.T.50.EB	3880													
KPG.1200.160.12.T.50.EB	4060	1405	880	1582.5	1340	1200	33	32	2391.5	1465	1100	1160	240	30
KPG.1200.200.12.T.50.EB	4400													
KPG.1400.132.14.T.50.EB	5010													
KPG.1400.160.14.T.50.EB	5100	1630	990	1805	1560	1400	36	36	2688.5	1615	1290	1360	250	32
KPG.1400.200.14.T.50.EB	5200													

10.3 KWM dimensions



TM058751

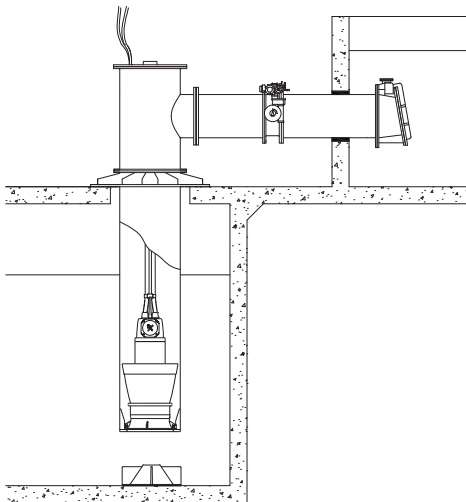
Pump type	Weight [kg]	W1[mm]	W8[mm]	W11[mm]	W2[mm]	W9[mm]	W10[mm]
KWM.600.37.4.T.50.H	760	1745					
KWM.600.45.4.T.50.H	790	1745					
KWM.600.55.4.T.50.H	820	1820	670	270	590	520	560
KWM.600.65.4.T.50.H	850	1820					
KWM.600.45.4.T.50.M	780	1775					
KWM.600.55.4.T.50.M	810	1850	640	280	590	520	560
KWM.600.65.4.T.50.M	840	1850					
KWM.700.75.4.T.50.H	1020	1995					
KWM.700.90.4.T.50.H	1100	2150	840	400	690	620	660
KWM.700.110.4.T.50.H	1170	2150					
KWM.700.45.6.T.50.M	950	2015					
KWM.700.55.6.T.50.M	980	2015					
KWM.700.75.6.T.50.M	1100	2170	810	380	690	620	660
KWM.700.90.6.T.50.M	1150	2170					
KWM.800.90.6.T.50.H	1400	2470					
KWM.800.110.6.T.50.H	1450	2470					
KWM.800.132.6.T.50.H	2150	2565	965	425	790	720	760
KWM.800.160.6.T.50.H	2200	2565					
KWM.800.90.6.T.50.M	1350	2515					
KWM.800.110.6.T.50.M	1400	2515					
KWM.800.132.6.T.50.M	2100	2610	960	440	790	720	760
KWM.800.160.6.T.50.M	2150	2610					
KWM.900.132.6.T.50.H	2330	2600					
KWM.900.160.6.T.50.H	2380	2600					
KWM.900.200.6.T.50.H	2580	2850	1100	460	890	820	860
KWM.900.220.6.T.50.H	2670	2850					

Pump type	Weight [kg]	W1[mm]	W8[mm]	W11[mm]	W2[mm]	W9[mm]	W10[mm]
KWM.900.132.6.T.50.M	2350	2650					
KWM.900.160.6.T.50.M	2400	2650					
KWM.900.200.6.T.50.M	2600	2900	1085	575	890	820	860
KWM.900.220.6.T.50.M	2690	2900					
KWM.900.250.6.T.50.M	2880	2900					
KWM.1000.220.6.T.50.H	2970	2975					
KWM.1000.250.6.T.50.H	3160	2975	1215	575	990	910	960
KWM.1000.300.6.T.50.H	3600	3115					
KWM.1000.350.6.T.50.H	3770	3115					
KWM.1000.200.8.T.50.M	3170	3100					
KWM.1000.220.8.T.50.M	3200	3100	1340	650	990	910	960
KWM.1000.250.8.T.50.M	3460	3240					
KWM.1000.300.8.T.50.M	3740	3240					
KWM.1200.350.8.T.50.M	4800	3385					
KWM.1200.400.8.T.50.M	5120	3385					
KWM.1200.450.8.T.50.M	5290	3585					
KWM.1200.500.8.T.50.M	5390	3585					
KWM.1200.550.8.T.50.M	5570	3585	1540	740	1190	1100	1160
KWM.1200.200.10.T.50.M	4190	3285					
KWM.1200.220.10.T.50.M	4240	3285					
KWM.1200.250.10.T.50.M	4380	3285					
KWM.1200.300.10.T.50.M	4750	3385					
KWM.1200.350.10.T.50.M	4930	3385					
KWM.1400.450.10.T.50.M	6400	3755					
KWM.1400.500.10.T.50.M	6610	4075					
KWM.1400.550.10.T.50.M	6790	4075					
KWM.1400.600.10.T.50.M	7160	4075	1735	835	1390	1290	1360
KWM.1400.650.10.T.50.M	7430	4075					
KWM.1400.300.12.T.50.M	6030	3755					
KWM.1400.350.12.T.50.M	6510	4075					
KWM.1400.400.12.T.50.M	6610	4075					
KWM.1600.500.14.T.50.M	9140	4305					
KWM.1600.550.14.T.50.M	9320	4305					
KWM.1600.600.14.T.50.M	9600	4305	1920	940	1580	1500	1560
KWM.1600.650.14.T.50.M	9740	4305					
KWM.1600.700.14.T.50.M	9870	4305					

11. Installation types

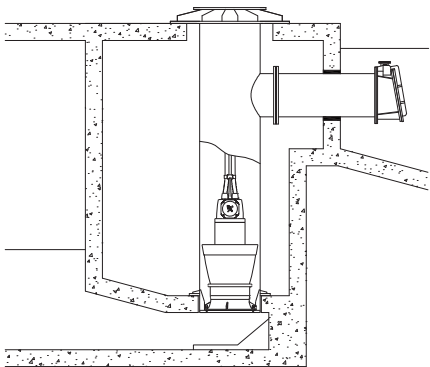
The installation types indicated here are only examples. For more information on installation types, contact Grundfos.

Outlet above floor and with outlet pipe valve, non-return valve and anti-cavitation cone (ACC)



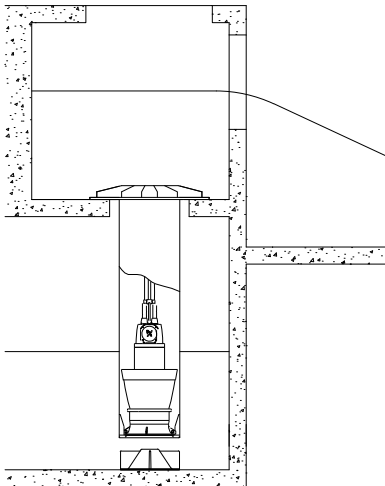
TM055317

Outlet to an open channel for low inlet water levels and Formed Suction Intake (FSI)



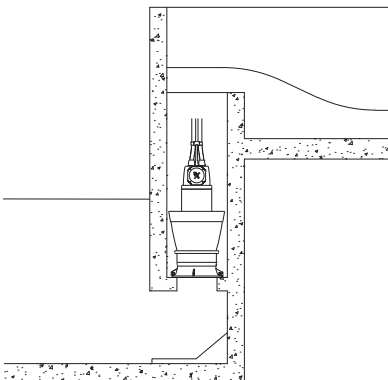
TM055316

Outlet above floor and with anti-cavitation cone (ACC)



TM055318

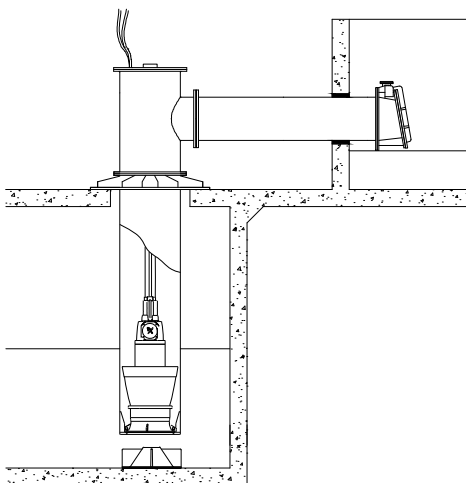
Outlet to an open channel and with outlet column (reinforced concrete)



TM055314

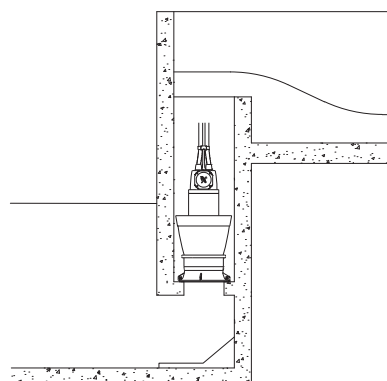
11.1 KPL and KWM installation types

Outlet above floor and with outlet pipe valve, non-return valve and anti-cavitation cone (ACC)



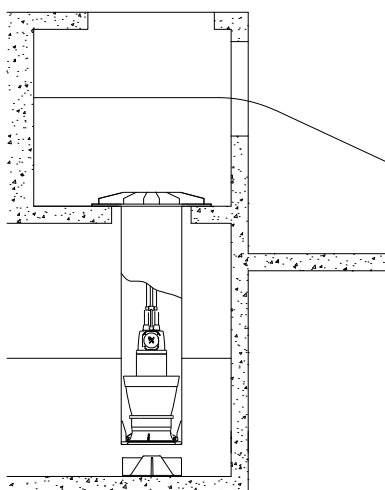
TM055317

Outlet to an open channel and with outlet column (reinforced concrete)



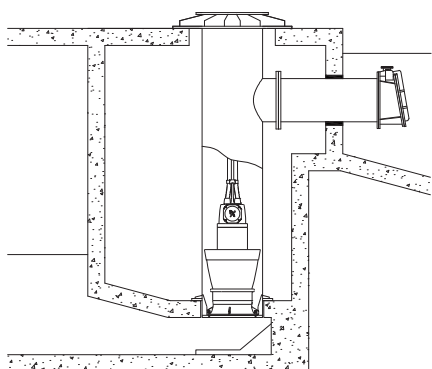
TM055314

Outlet above floor and with anti-cavitation cone (ACC)



TM055318

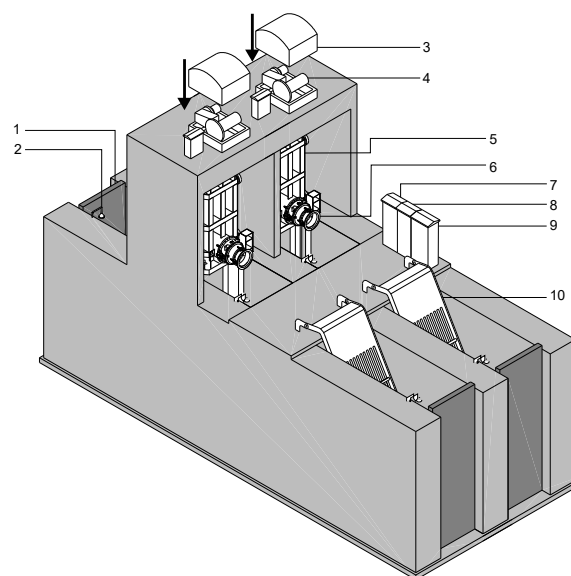
Outlet to an open channel for low inlet water levels and Formed Suction Intake (FSI)



TM055316

11.2 KPG installation types

Installation example of a KPG gate pump



Position	Description
1	Stop log
2	Water-level sensor
3	Cover for hoist
4	Hoist
5	Gate
6	Pump
7*	Hoist control cabinet
8*	Main station cabinet
9*	Motor control cabinet
10	Screen

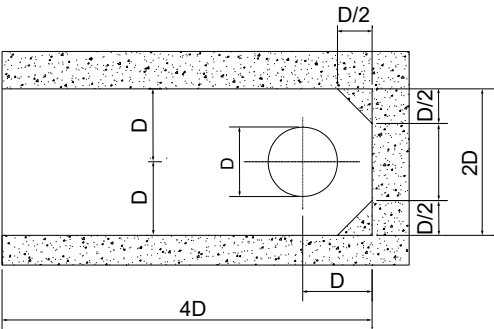
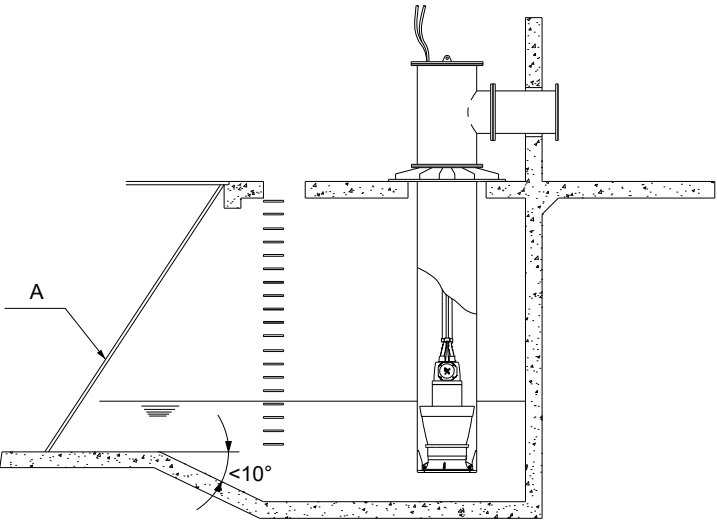
*The locations of hoist control cabinet, main station cabinet and motor control cabinet are based on the actual on-site installation.

11.3 Pit construction

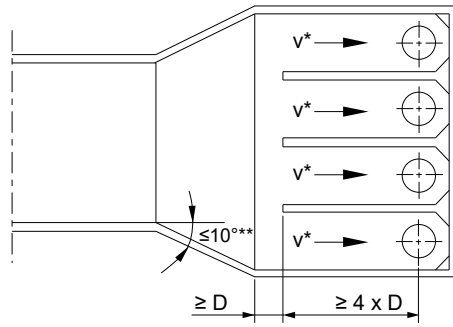
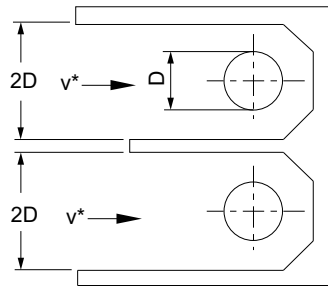
D (pipe diameter DN) [mm]	A [mm]	B [mm]	C [mm]	W [mm]	T	L [mm]
500	2000	1000	250	2000	Depending on construction, contact Grundfos	2000
600	2400	1200	300	2400		2400
650	2600	1300	325	2600		2600
700	2800	1400	350	2800		2800
800	3200	1600	400	3200		3200
900	3600	1800	450	3600		3600
1000	4000	2000	500	4000		4000
1200	4800	2400	600	4800		4800
1400	5600	2800	700	5600		5600
1500	6000	3000	750	6000		6000
1600	6400	3200	800	6400		6400
1800	7200	3600	900	7200		7200

Flow velocity (V*):

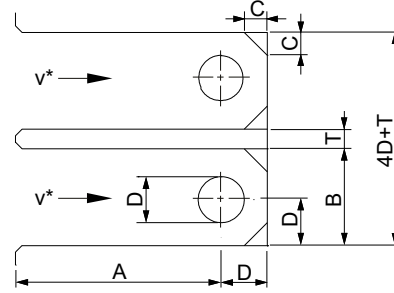
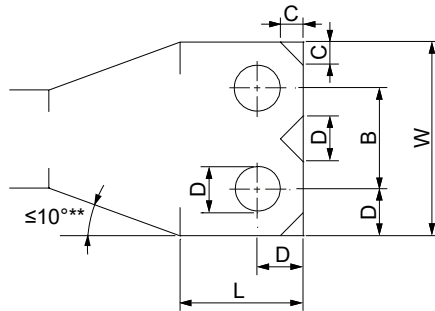
- 0.7 m/sec for storm- and wastewater containing particles.
- 0.3 m/sec for screened storm- and wastewater without particles.



TM074055



TM073747



TM073746

12. Grundfos Product Center

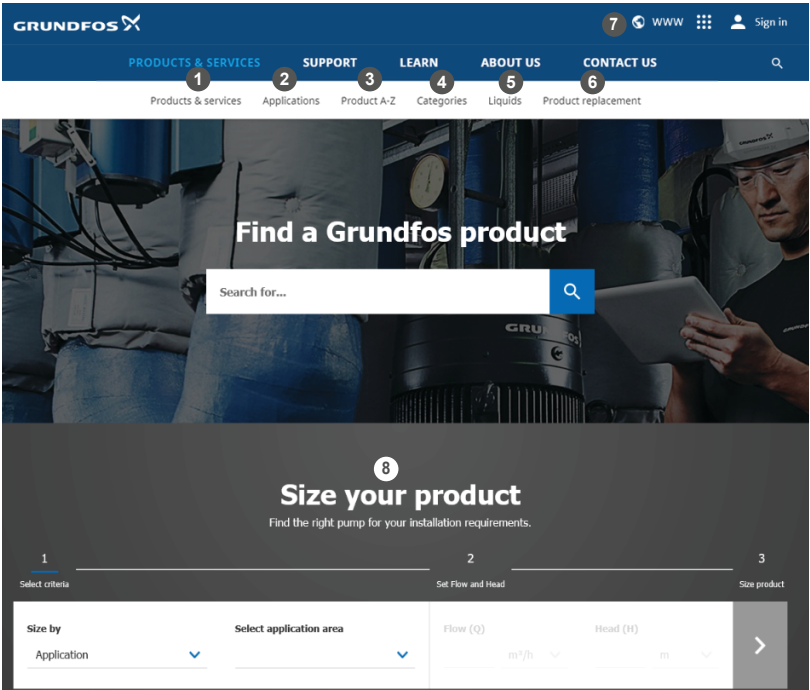
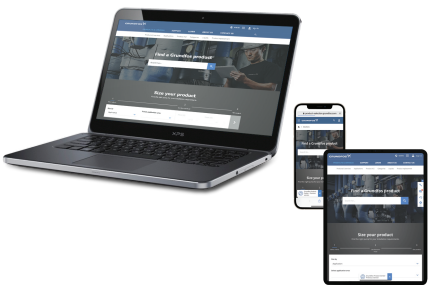
Online search and sizing tool to help you make the right choice.
From the international view, you can select your specific country to view the product range available to you.
International view: <http://product-selection.grundfos.com>

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.



TM072383-1

When you select your country, you will 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 optimise 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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