DAB
WATER•TECHNOLOGY

KLPE / DKLPE

IN-LINE PUMPS

KLPE / DKLPE

ELECTRONIC IN-LINE PUMPS FOR CIRCULATION SYSTEMS

TECHNICAL DATA

Flow rate (range): from 2 m^3/h to 84 m^3/h
Head up to: 23,4 m
Type of pumped liquid: clean, free from solid or abrasive substances, non-viscous, non-aggressive, non-crystallized and chemically neutral.
Glycol percentage (maximum): 50%
Liquid temperature (range): from -15°C to +120°C
Maximum ambient temperature: +40°C
Operation pressure (maximum): 10 bar / 1000 kPa
Flanging or threading: DN 40, 50, 65, 80 with PN10, PN16 (4 hole)
Motor protection class: IPX5
Motor insulation class: F
Efficiency rating: IE5
Impeller material: technopolymer
Single phase power input: 230 V 50 Hz
Three phase power input: 3x230 V 50 Hz / 3x400 V 50 Hz
RPM: 2950 for KLPE - 1400 for KLME
Type of installation: fixed in horizontal position

KLPE and DKLPE are electronic inline pumps with permanent magnetic motors for hot water circulation in residential, institutional and commercial settings and for water recirculation in medium-sized heating and air-conditioning systems, including systems incorporating solar panels. The twin-head pumps can operate in duty/standby or parallel mode. Option of remote control using the new NgDrive with integrated connectivity.

CONSTRUCTION FEATURES OF THE PUMP

Cast iron pump casing and motor mount. Flanged inlet and outlet with threaded connections for control pressure gauges. Compatibility with PN16 mating flanges (for easier replacement of products in existing systems). Technopolymer impeller, silicon carbide mechanical seal.
Versions with the letter D are twin-head models, and also come with a swing check valve built into the outlet to stop the reverse flow of water into the unit when idle, as well as a blind flange for maintenance on one of the two motors. These versions can operate in parallel mode or with one of the two motors as a backup. The following are available on request:
threaded mating flanges DN 40, DN 50, DN 65 in PN 6
weld-neck flanges DN 40, DN 50, DN 65, DN 80 in PN 10 or PN 6 (4 holes)
weld-neck flanges DN 80 in PN 10 or PN 16 (8 holes)

CONSTRUCTION FEATURES OF THE MOTOR

Permanent magnet motor, controlled by the new NgDrive controller. IE5 efficiency rating. AISI 316 stainless steel motor shaft, mounted on ball bearings.

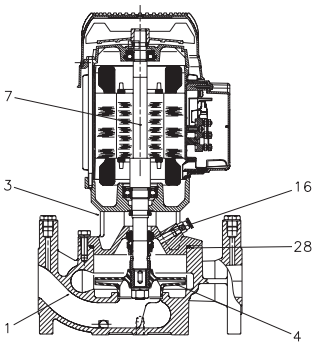
CONSTRUCTION FEATURES OF THE ELECTRONIC

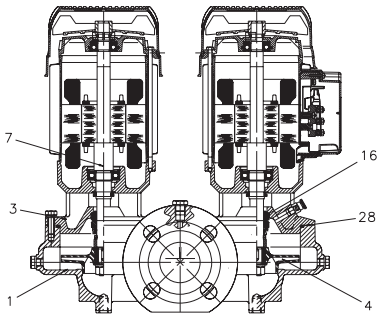
The inline motor-driven pumps are controlled using NgDrive, the variable-speed control unit designed to adapt performance to match the system's actual requirements, with a resulting reduction in power demand along with energy savings. The gradual motor speed adjustment decreases the potential for component wear and protects the pump from water hammer.
The graphic display makes the unit easy to read and simplifies the process of entering operation settings; system setup is also very simple thanks to the relevant wizard.
A lot of thought has gone into the functional design to ensure installation and maintenance are straightforward: it is easy to handle; it can be mounted on a wall or on the pump in 5 different positions; and it is split into two parts so that the various components inside can be mounted and serviced separately. It delivers efficiency, energy savings, and is supremely user friendly.

MATERIALS

N.	PARTS*	MATERIALS
1	PUMP BODY	CAST IRON 250 UNI ISO 185
3	SUPPORT	CAST IRON 250 UNI ISO 185
4	IMPELLER	TECHNOPOLYMER
7	SHAFT WITH ROTOR	AISI 303 STAINLESS STEEL X10 CrNiS 1809 UNI 6900/71
16	MECHANICAL SEAL	CARBON / CERAMIC
28	OR RING	EPDM RUBBER

* In contact with the liquid





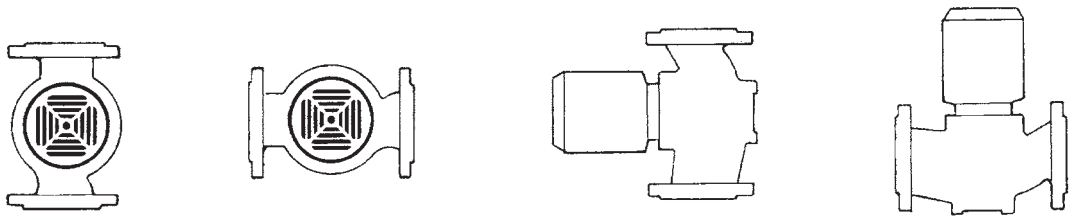
– Legend:
(example)

D KL P E 80 / 1200 M MCE 11 C

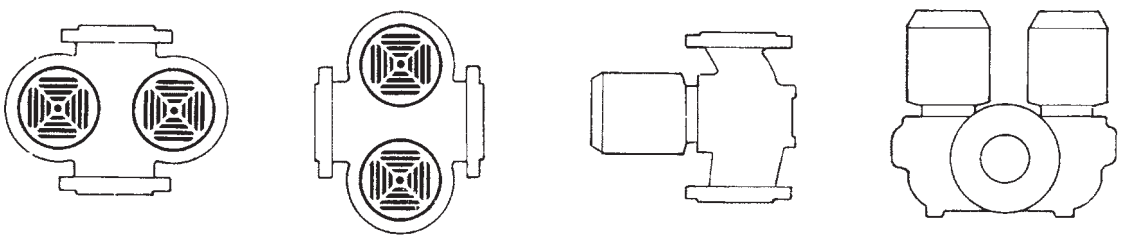
- Twin version
- Series
- M = 4-pole motor
P = 2-pole motor
- E = motor complete with inverter
- (DN) nominal diameter of the flanged ports
- Maximum head (cm)
- M = single-phase motor
T = three-phase motor
- MCE = DAB inverter
- 11 = P. max in Kw x 10
- C = Circulation version

Installation: horizontal or vertical position, provided that the motor is always above the pump.

KLPE



DKLPE



CONSTRUCTION FEATURES ELECTRICAL SECTION

NGDRIVE

The technological product of over 40 years' experience in the water handling sector. NgDrive is not just a variable frequency drive, it is the hardware component of a fully-fledged smart system, conceived to cater to the needs of its users, not least in its design.

VERSATILITY and EASE of use make NgDrive the most comprehensive controller available in the market. A new generation of variable frequency drives, designed for the control and protection of circulation and pressure booster pumps, adjusting them to suit the system's actual demands, thus resulting in both occupant comfort and real energy savings.

Drawing on cutting-edge TECHNOLOGIES and the DAB group's lengthy experience, NgDrive features a meticulously engineered design that is not just design for design's sake; instead, it was conceived specifically to cater to the needs of its users. Moreover, it is split into two parts that can be separated so that the components inside can even be fitted at different times and serviced without disconnecting any wires.

With the option of being fitted on the actual pump or wall mounted, NgDrive gives you the tool you need to get the most out of the DAB range of pumps and use them in the most efficient way. NgDrive has been designed and built to offer the best user experience: easy to install, set up and monitor.

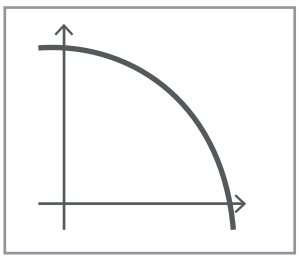
- 2.8" TFT colour display
- A single software for different applications (circulation and pressure boosting)
- Keypad with intuitive commands
- Setup and getting started wizards
- Software updates via app
- Integrated connectivity (Wi-fi, Bluetooth, Wireless, Modbus) for remote control

NgDrive introduces new standards in DAB technology: cooling via built-in fan with speed control based on temperature, and architecture with four microprocessors:
- Wireless communication
- Pump functions managed via display
- Motor control
- Input and output signals

Between two and a maximum of six variable frequency drives can be connected wirelessly.

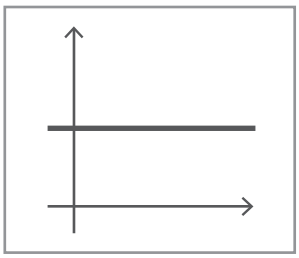
OPERATING MODES

NgDrive can be used to control pumps both for pressure boosting systems and circulation systems. Constant-pressure control is the method used for pressure boosting applications, while for circulation, the control options are as follows:
- Constant speed
- Constant differential temperature
- Constant temperature
- Proportional differential pressure
- Constant differential pressure



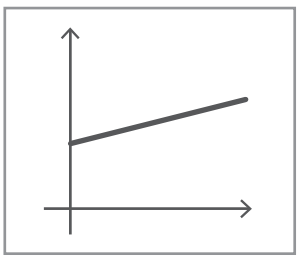
Constant speed

The speed of rotation is kept at a constant rpm. This speed can be set in a range from a minimum value to the circulation pump's nominal frequency. This mode can be set via the control panel.



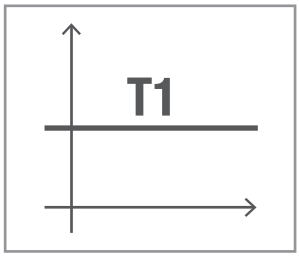
Costant differential pressure

The maximum head is constant, regardless of the water demand. This mode can be set via the control panel, where you can specify the pressure setpoint and, where applicable, the liquid temperature dependence (in this case, you will need to connect a T1 and T2 sensor).



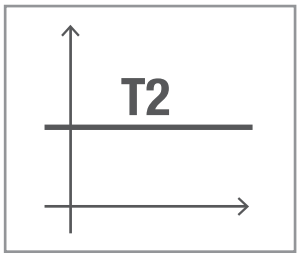
Proportional differential pressure

In this control mode, the differential pressure is reduced or increased as water demand drops or rises. This mode can be set via the control panel, where you can specify the pressure setpoint and, where applicable, the liquid temperature dependence (in this case, you will need to connect a T1 and T2 sensor).



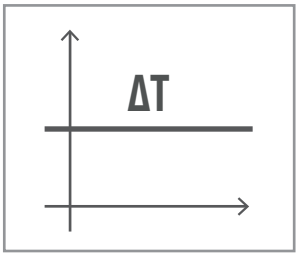
Constant temperature

With this function, the circulation pump increases or decreases flow rate to keep constant the temperature measured by the NTC sensor connected.
You can set 2 operating modes:
• T1 increase mode –› if the desired temperature (Ts) is greater than the temperature measured (T1), the circulation pump increases flow rate until the temperature reaches Ts.
• T1 decrease mode –› if the desired temperature (Ts) is greater than the temperature measured (T1), the circulation pump decreases flow rate until the temperature reaches Ts



Constant temperature

With this function, the circulation pump increases or decreases flow rate to keep constant the temperature measured by the NTC sensor connected.
You can set 2 operating modes:
• T2 increase mode –› if the desired temperature (Ts) is lower than the temperature measured (T1), the circulation pump increases flow rate until the temperature reaches Ts.
• T1 decrease mode –› if the desired temperature (Ts) is greater than the temperature measured (T1), the circulation pump decreases flow rate until the temperature reaches Ts.



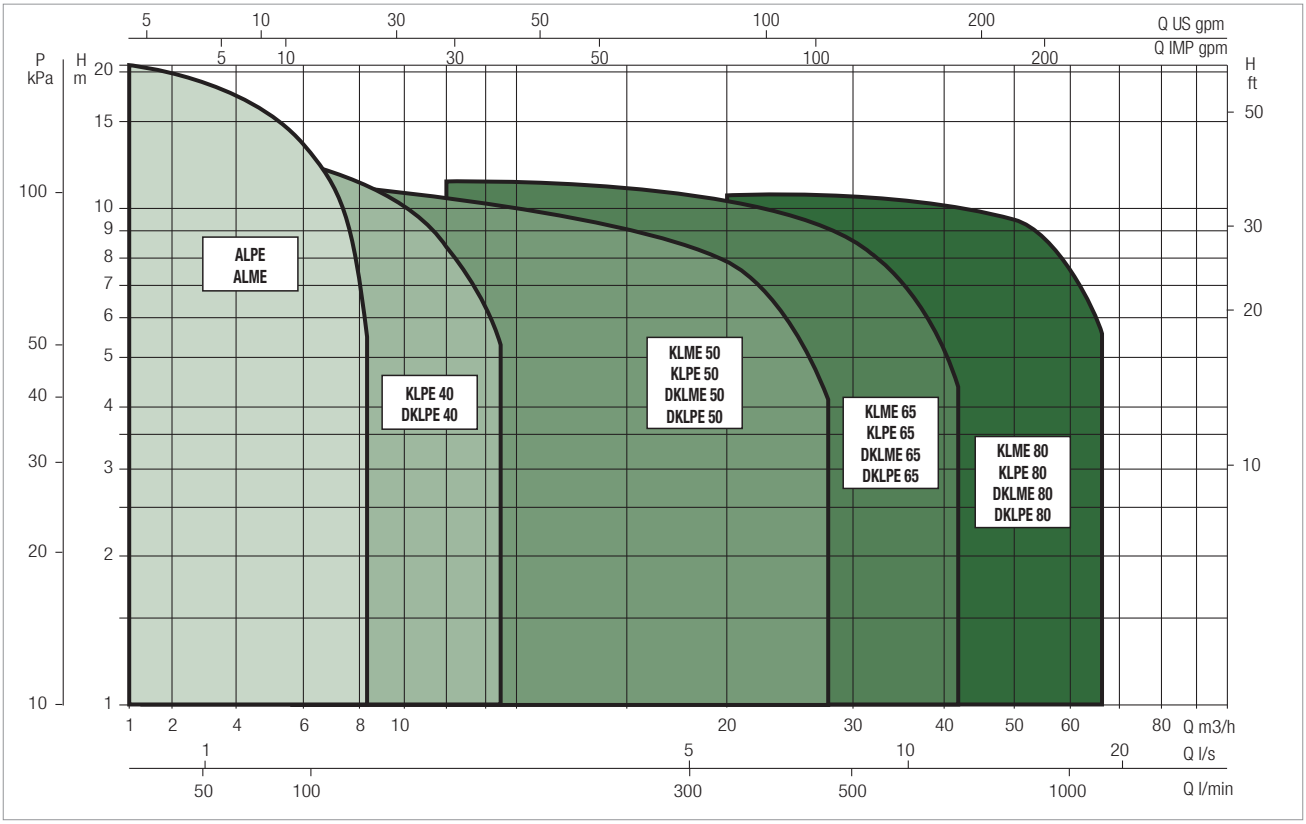
Constant temperature difference

With this function, the circulation pump increases or decreases flow rate to keep constant the T1-T2 temperature difference as an absolute value. This mode can be set via the control panel, where you can specify the temperature setpoint.

PERFORMANCE RANGE

The performance curves are based on kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

GRAPHIC SELECTION TABLE



MODEL	Q (m³/h)	0	5	10	15	20	25
	Q (l/min)	0	83	167	250	333	417
KLPE 40-1600 M IE5	H (m)	16,36	15,66	14,19	11,31	6,78	0,75
KLPE 40-1800 M IE5		18,59	17,70	16,06	12,87	7,85	1,29

MODEL	Q (m³/h)	0	5	10	15	20	25
	Q (l/min)	0	83	167	250	333	417
DKLPE 40-1600 M IE5	H (m)	16,19	15,32	13,51	10,24	5,05	-
DKLPE 40-1800 M IE5		18,64	17,53	15,48	11,75	6,06	-

MODEL	Q (m³/h)	0	5	10	15	20	25	30	35	40	50
	Q (l/min)	0	83	167	250	333	417	500	583	667	833
KLPE 50-1200 M IE5	H (m)	12,3	12,3	11,9	11,1	9,7	7,7	5,3	2,4	-	-
KLPE 50-1600 M IE5		16,3	16,5	16,1	15,3	13,9	11,9	9,4	6,5	-	-
KLPE 50-2000 M IE5		23,1	23,8	23,7	22,7	21,0	18,9	16,2	13,2	9,9	2,7
KLPE 50-2000 T IE5		23,2	23,8	23,5	22,6	21,2	19,3	17,0	14,2	10,9	2,2

SELECTION TABLE - KLPE / DKLPE

MODEL	Q (m³/h)	0	5	10	15	20	25	30	35	40	50
	Q (l/min)	0	83	167	250	333	417	500	583	667	833
DKLPE 50-1200 M IE5	H (m)	12,3	12,3	11,6	10,4	8,6	6,3	3,6	0,5	-	-
DKLPE 50-1600 M IE5		16,5	16,5	15,7	14,3	12,5	10,1	7,3	4,0	-	-
DKLPE 50-2000 M IE5		23,0	23,5	23,0	21,6	19,6	17,2	14,3	11,0	-	-
DKLPE 50-2000 T IE5		23,1	23,6	23,3	22,3	20,7	18,4	15,6	12,3	-	-

MODEL	Q (m³/h)	0	5	10	15	20	25	30	35	40
	Q (l/min)	0	83	167	250	333	417	500	583	667
KLPE 65-900 M IE5	H (m)	9,2	8,9	8,8	8,6	8,1	7,1	5,7	3,9	1,8
KLPE 65-1200 M IE5		12,1	12,0	12,1	12,0	11,5	10,5	9,1	7,1	4,7
KLPE 65-1600 M IE5		16,3	16,6	16,7	16,6	16,1	15,1	13,8	12,0	9,8
KLPE 65-1600 T IE5		16,3	16,5	16,7	16,6	16,1	15,3	14,1	12,4	10,3
KLPE 65-2000 T IE5		20,3	20,7	20,8	20,6	20,1	19,2	18,0	16,5	14,5

MODEL	Q (m³/h)	0	5	10	15	20	25	30	35	40
	Q (l/min)	0	83	167	250	333	417	500	583	667
DKLPE 65-900 M IE5	H (m)	9,5	9,3	9,0	8,6	7,7	6,3	4,5	2,4	0,3
DKLPE 65-1200 M IE5		12,3	12,4	12,4	11,9	11,0	9,6	7,6	5,2	2,4
DKLPE 65-1600 T IE5		16,7	17,1	17,1	16,7	15,8	14,6	12,8	10,6	7,9
DKLPE 65-1600 M IE5		16,6	17,0	17,0	16,6	15,7	14,4	12,6	10,3	7,5
DKLPE 65-2000 T IE5		20,6	21,3	21,3	20,7	19,6	18,1	16,3	14,1	11,4

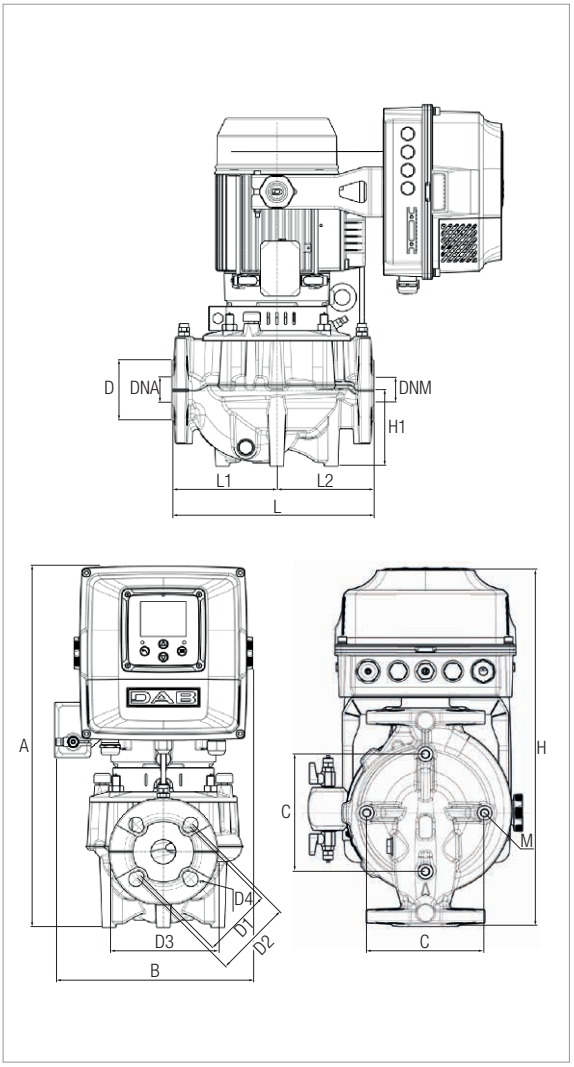
MODEL	Q (m³/h)	0	10	20	30	40	50	60
	Q (l/min)	0	167	333	500	667	833	1000
KLPE 80-900 M IE5	H (m)	16,0	16,6	16,8	16,7	16,2	15,2	13,8
KLPE 80-900 T IE5		11,9	12,0	12,1	11,9	11,2	9,9	8,1
KLPE 80-1200 M IE5		11,8	11,9	12,0	11,8	11,1	9,8	7,9
KLPE 80-1200 T IE5		8,9	8,8	8,5	8,0	7,0	5,5	3,3
KLPE 80-1600 T IE5		8,8	8,7	8,4	8,0	7,1	5,6	3,2

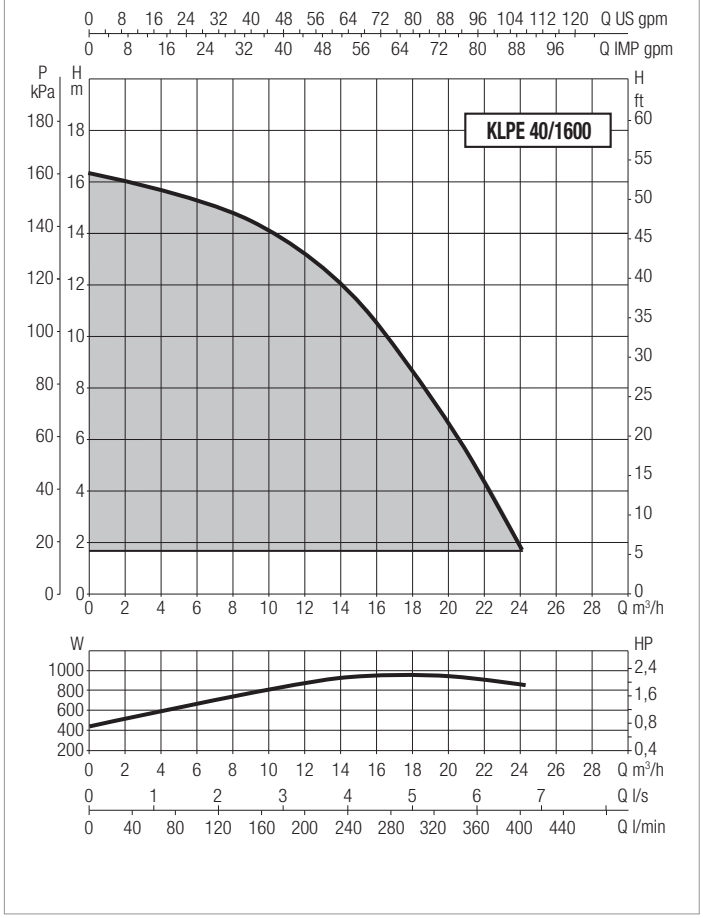
MODEL	Q (m³/h)	0	10	20	30	40	50	60
	Q (l/min)	0	167	333	500	667	833	1000
DKLPE 80-900 M IE5	H (m)	9,0	8,7	8,3	7,5	6,2	4,2	1,5
DKLPE 80-900 T IE5		9,0	8,8	8,2	7,4	6,1	4,3	1,6
DKLPE 80-1200 M IE5		12,0	11,9	11,7	11,0	9,8	8,0	5,6
DKLPE 80-1200 T IE5		11,9	11,9	11,6	10,9	9,7	7,8	5,4
DKLPE 80-1600 T IE5		16,2	16,3	16,2	15,6	14,5	12,8	10,5

MODEL	Q (m³/h)	0	2,4	3,6	4,8	6	7,2	8,4	9,6	12	14,4	16,8	18	24	30	36	48	60	72	84
	Q (l/min)	0	40	60	80	100	120	140	160	200	240	280	300	400	500	600	800	1000	1200	1400
KLPE 80-2000 T IE3	H (m)	20,8	20,9	20,9	21	21	21	21	21	21,1	21,1	21,1	21,1	21,1	21	20,6	19,3	17,4	14,8	11,7
DKLPE 80-2000 T IE3		20,3	20,3	20,3	20,3	20,3	20,3	20,3	20,3	20,3	20,2	20,2	20,1	19,9	19,4	18,8	16,8	13,9	10,4	-

KLPE 40 - ELECTRONIC IN-LINE PUMPS FOR CIRCULATION SYSTEMS

Pumped liquid temperature range: from -15 °C to +120 °C - Maximum ambient temperature: +40°C





For the MEI index refer to the hydraulic data of the individual pump.
The performance curves are based on kinematic viscosity values = 1 mm^2/s and density equal to 1000 kg/m^3. Curve tolerance according to ISO 9906.

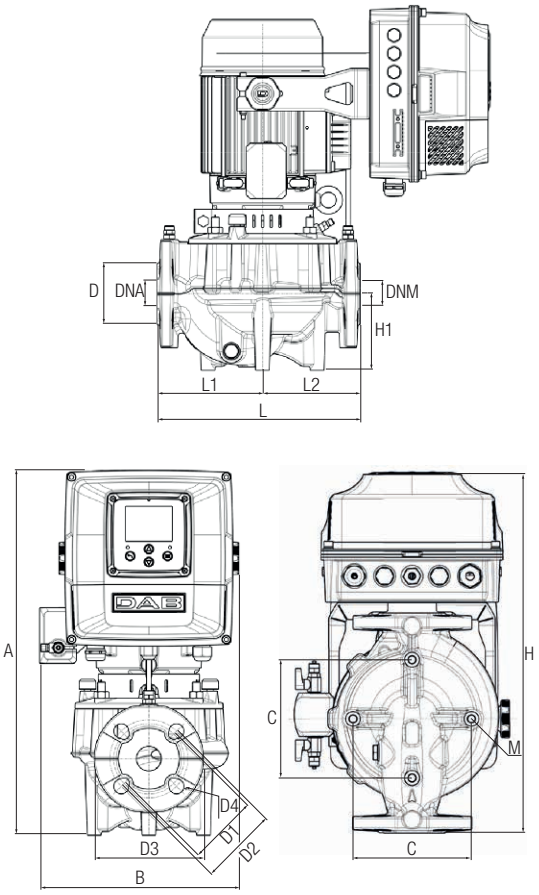
MODEL			ELECTRICAL DATA					
	CENTRE DISTANCE	PUMP CONNECTIONS	POWER INPUT 50 Hz	P1 MAX kW	P2 NOMINAL		I MAX [A]	
					kW	HP	230 V	400 V
KLPE 40-1600 IE5*	250	DN 40 PN 16	230 V	0,95	0,7	0,94	4,2	-

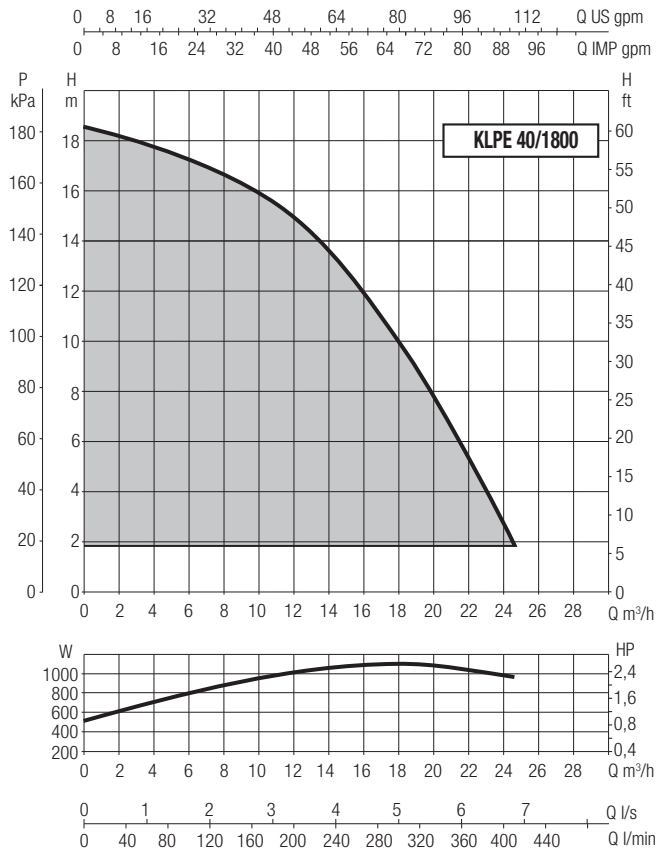
* ΔP-v proportional differential pressure adjustment mode also available.

MODEL	BODY	A	B	C	D	D1	D2	D3	D4	H	H1	L	L1	L2	M	DNA	DNM	PACKING DIMENSIONS		
																		L/A	L/B	H
KLPE 40-1600 IE5*	KL40250	419	255	100	80	100	110	150	18	416	66	250	125	125	10	40	40	600	300	637

KLPE 40 - ELECTRONIC IN-LINE PUMPS FOR CIRCULATION SYSTEMS

Pumped liquid temperature range: from -15 °C to +120 °C - **Maximum ambient temperature:** +40°C





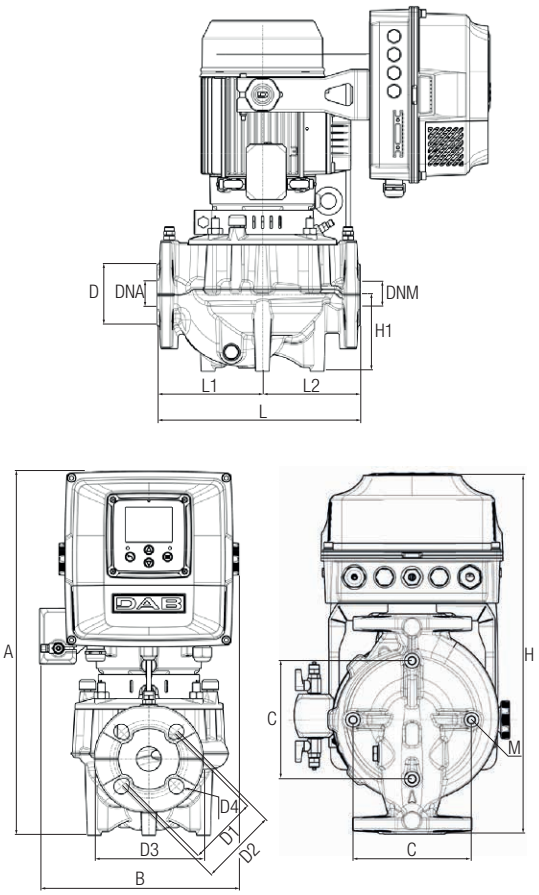
For the MEI index refer to the hydraulic data of the individual pump.
The performance curves are based on kinematic viscosity values = 1 mm^2/s and density equal to 1000 kg/m^3. Curve tolerance according to ISO 9906.

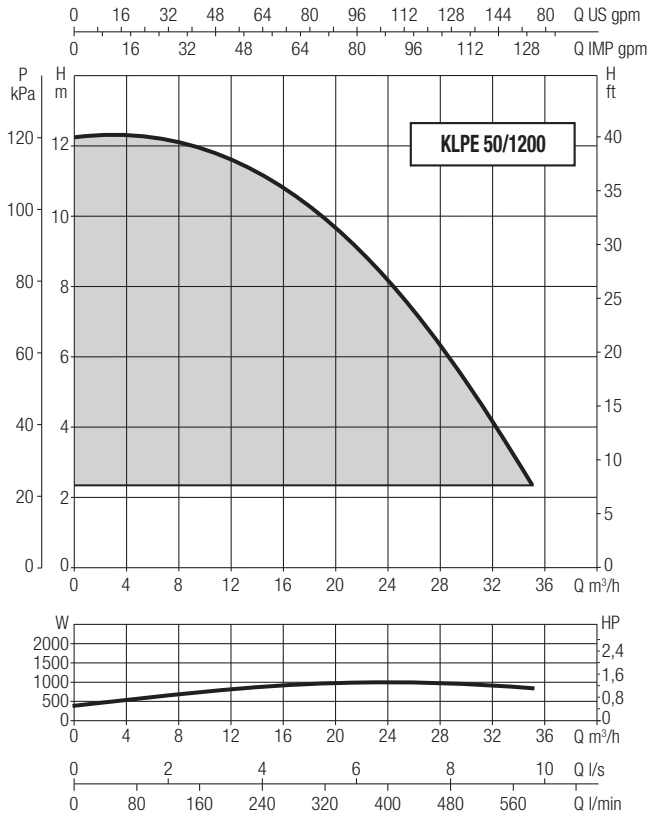
MODEL			ELECTRICAL DATA					
	CENTRE DISTANCE	PUMP CONNECTIONS	POWER INPUT 50 Hz	P1 MAX kW	P2 NOMINAL		I MAX [A]	
					kW	HP	230 V	400 V
KLPE 40-1800 IE5	250	DN 40 PN 16	230 V	1,1	0,8	1,07	4,8	-

MODEL	BODY	A	B	C	D	D1	D2	D3	D4	H	H1	L	L1	L2	M	DNA	DNM	PACKING DIMENSIONS		
																		L/A	L/B	H
KLPE 40-1800 IE5	KL40250	419	255	100	80	100	110	150	18	416	66	250	125	125	10	40	40	600	300	637

KLPE 50 - ELECTRONIC IN-LINE PUMPS FOR CIRCULATION SYSTEMS

Pumped liquid temperature range: from -15 °C to +120 °C - **Maximum ambient temperature:** +40°C





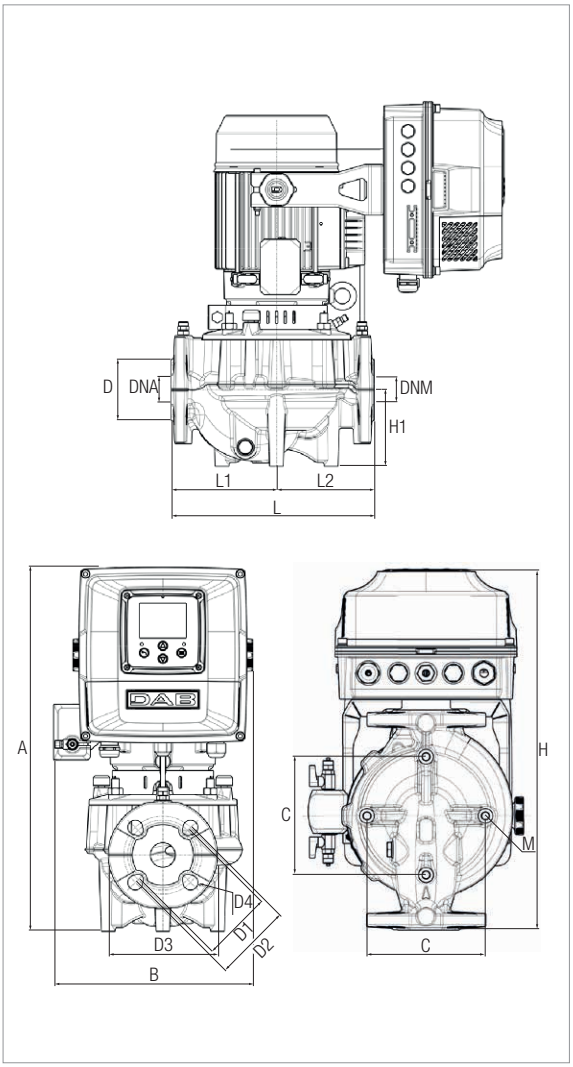
For the MEI index refer to the hydraulic data of the individual pump.
The performance curves are based on kinematic viscosity values = 1 mm^2/s and density equal to 1000 kg/m^3. Curve tolerance according to ISO 9906.

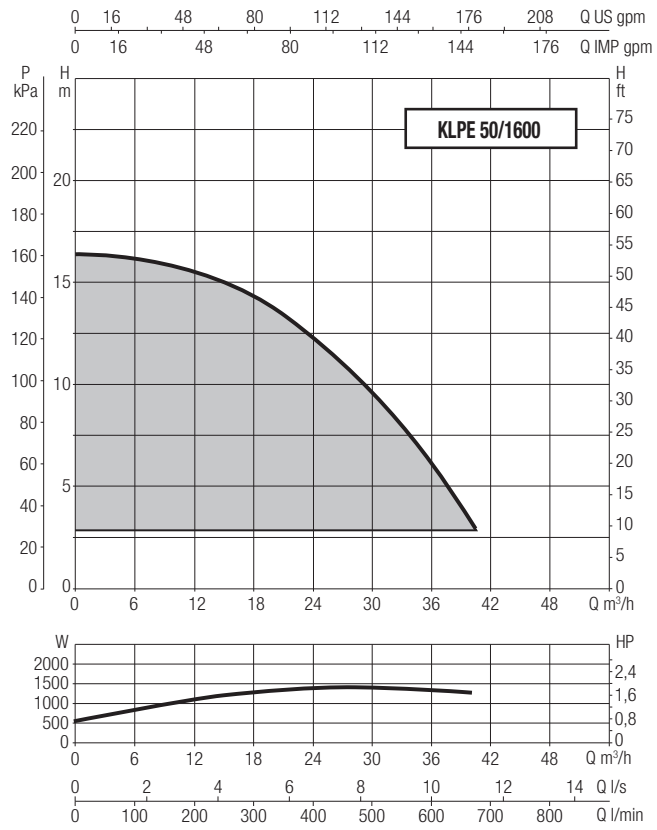
MODEL			ELECTRICAL DATA					
	CENTRE DISTANCE	PUMP CONNECTIONS	POWER INPUT 50 Hz	P1 MAX kW	P2 NOMINAL		I MAX [A]	
					kW	HP	230 V	400 V
KLPE 50-1200 IE5	280	DN 50 PN 16	230 V	0,98	0,7	0,9	4,3	-

MODEL	BODY	A	B	C	D	D1	D2	D3	D4	H	H1	L	L1	L2	M	DNA	DNM	PACKING DIMENSIONS		
																		L/A	L/B	H
KLPE 50-1200 IE5	KL50280	438	255	100	90	110	125	165	18	431	73	280	140	140	10	50	50	600	300	637

KLPE 50 - ELECTRONIC IN-LINE PUMPS FOR CIRCULATION SYSTEMS

Pumped liquid temperature range: from -15 °C to +120 °C - **Maximum ambient temperature:** +40°C





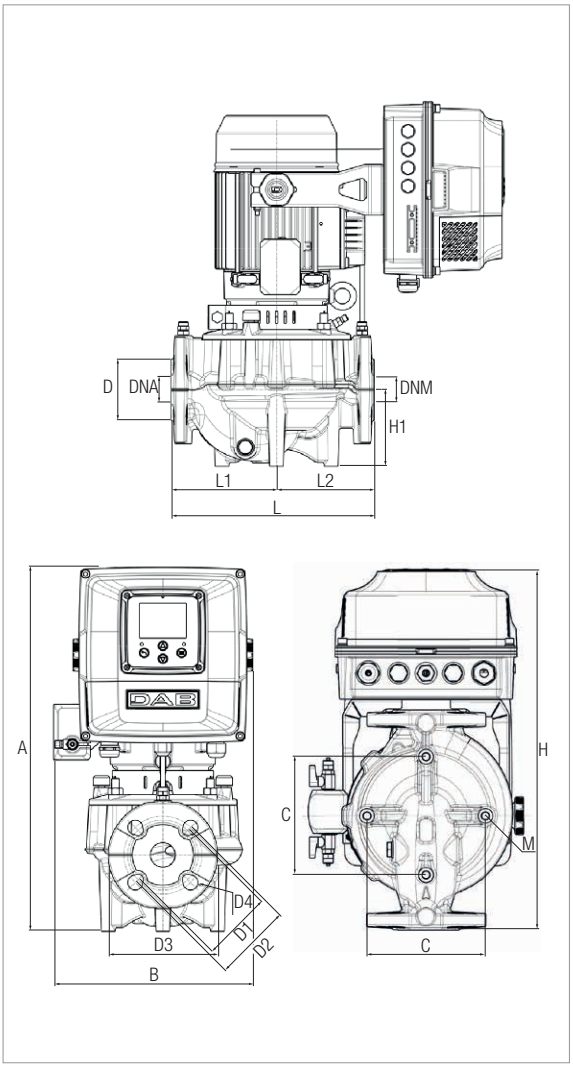
For the MEI index refer to the hydraulic data of the individual pump.
The performance curves are based on kinematic viscosity values = 1 mm^2/s and density equal to 1000 kg/m^3. Curve tolerance according to ISO 9906.

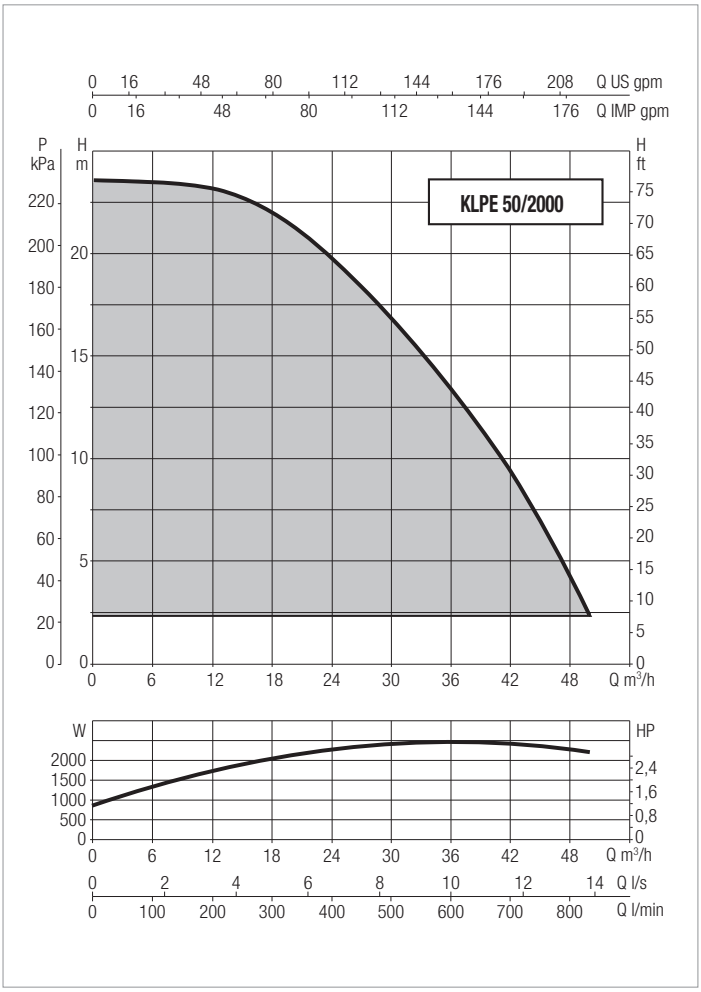
MODEL			ELECTRICAL DATA					
	CENTRE DISTANCE	PUMP CONNECTIONS	POWER INPUT 50 Hz	P1 MAX kW	P2 NOMINAL		I MAX [A]	
					kW	HP	230 V	400 V
KLPE 50-1600 IE5	280	DN 50 PN 16	230 V	1,4	1	1,3	6,2	-

MODEL	BODY	A	B	C	D	D1	D2	D3	D4	H	H1	L	L1	L2	M	DNA	DNM	PACKING DIMENSIONS		
																		L/A	L/B	H
KLPE 50-1600 IE5	KL50280	508	256	100	90	110	125	165	18	435	73	280	140	140	10	50	50	600	300	637

KLPE 50 - ELECTRONIC IN-LINE PUMPS FOR CIRCULATION SYSTEMS

Pumped liquid temperature range: from -15 °C to +120 °C - Maximum ambient temperature: +40°C





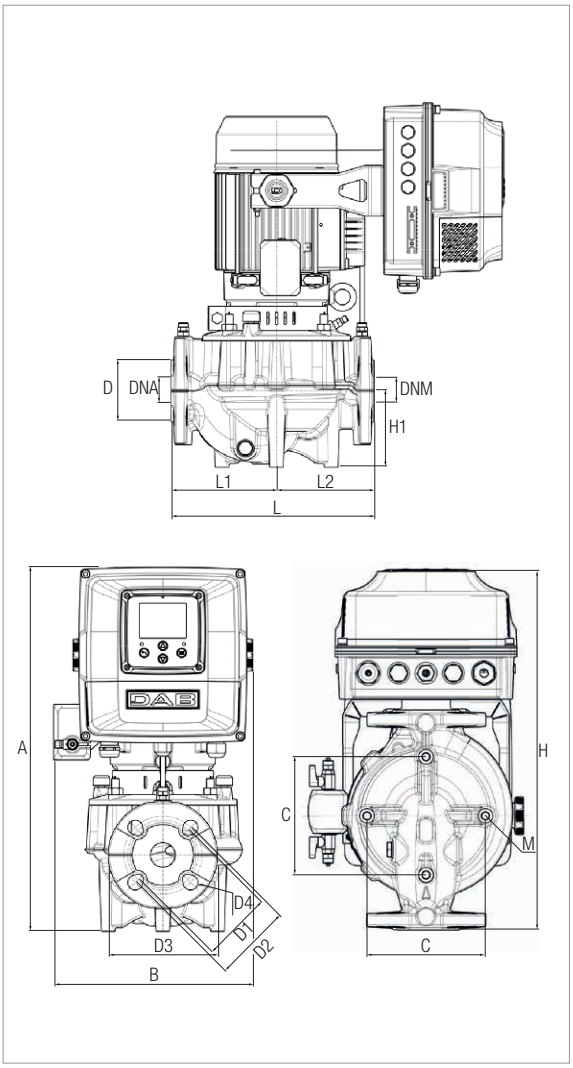
For the MEI index refer to the hydraulic data of the individual pump.
The performance curves are based on kinematic viscosity values = 1 mm^2/s and density equal to 1000 kg/m^3. Curve tolerance according to ISO 9906.

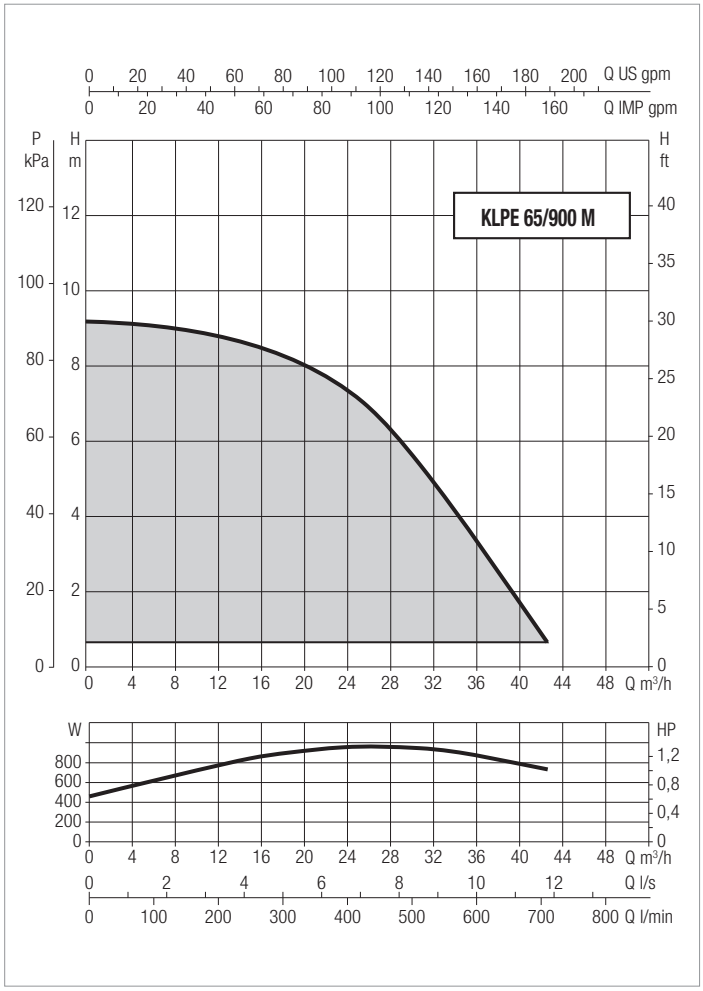
MODEL			ELECTRICAL DATA					
	CENTRE DISTANCE	PUMP CONNECTIONS	POWER INPUT 50 Hz	P1 MAX kW	P2 NOMINAL		I MAX [A]	
					kW	HP	230 V	400 V
KLPE 50-2000 IE5	280	DN 50 PN 16	230 V	2,3	1,8	2,4	10,04	-
KLPE 50-2000 IE5	280	DN 50 PN 16	400 V	2,4	1,8	2,4	4,07	-

MODEL	BODY	A	B	C	D	D1	D2	D3	D4	H	H1	L	L1	L2	M	DNA	DNM	PACKING DIMENSIONS		
																		L/A	L/B	H
KLPE 50-2000 M IE5	KL50280	508	256	100	90	110	125	165	18	435	73	280	140	140	10	50	50	600	300	637
KLPE 50-2000 T IE5	KL50280	508	256	100	90	110	125	165	18	435	73	280	140	140	10	50	50	600	300	637

KLPE 65 - ELECTRONIC IN-LINE PUMPS FOR CIRCULATION SYSTEMS

Pumped liquid temperature range: from -15 °C to +120 °C - Maximum ambient temperature: +40°C





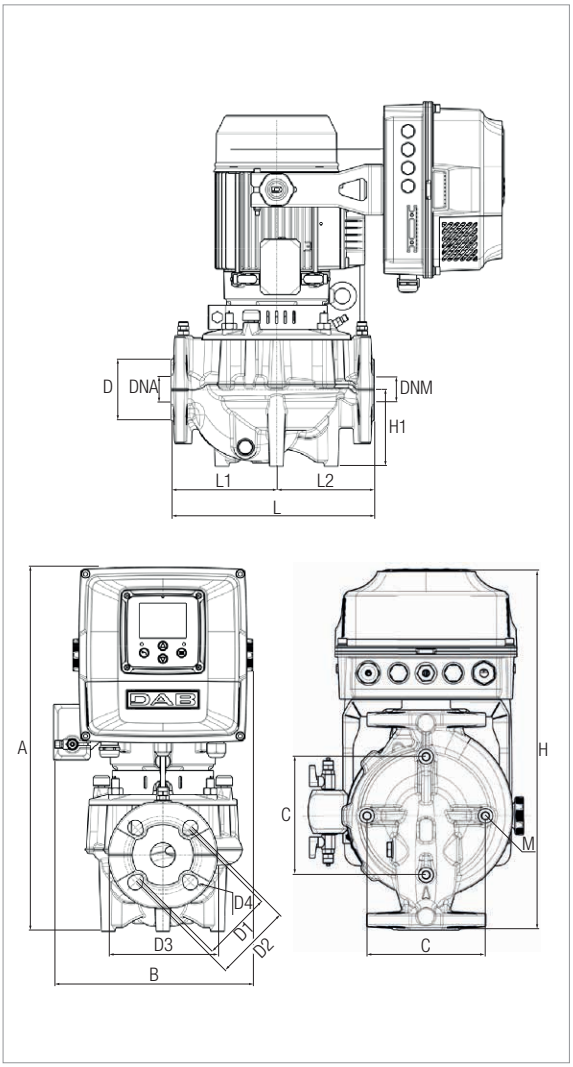
For the MEI index refer to the hydraulic data of the individual pump.
The performance curves are based on kinematic viscosity values = 1 mm^2/s and density equal to 1000 kg/m^3. Curve tolerance according to ISO 9906.

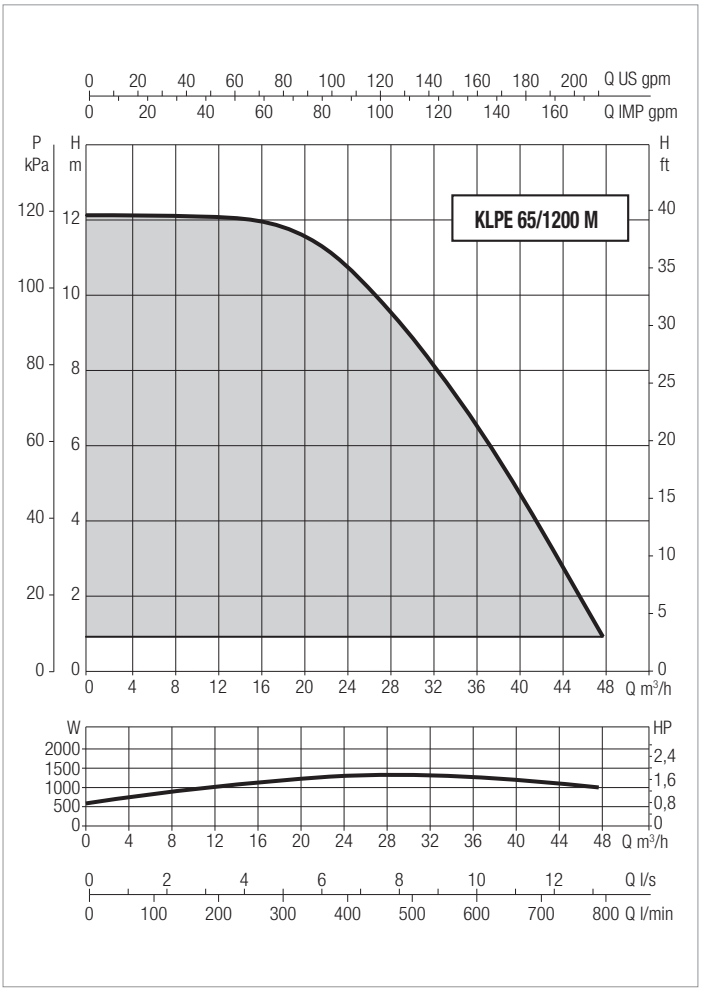
MODEL			ELECTRICAL DATA					
	CENTRE DISTANCE	PUMP CONNECTIONS	POWER INPUT 50 Hz	P1 MAX kW	P2 NOMINAL		I MAX [A]	
					kW	HP	230 V	400 V
KLPE 65-900 IE5	340	DN 65 PN 16	230 V	0,95	1,1	1,48	4,2	-

MODEL	BODY	A	B	C	D	D1	D2	D3	D4	H	H1	L	L1	L2	M	DNA	DNM	PACKING DIMENSIONS		
																		L/A	L/B	H
KLPE 65-900 IE5	KL65340	458	255	100	110	130	145	185	18	461	82	340	170	170	10	65	65	600	300	637

KLPE 65 - ELECTRONIC IN-LINE PUMPS FOR CIRCULATION SYSTEMS

Pumped liquid temperature range: from -15 °C to +120 °C - Maximum ambient temperature: +40°C





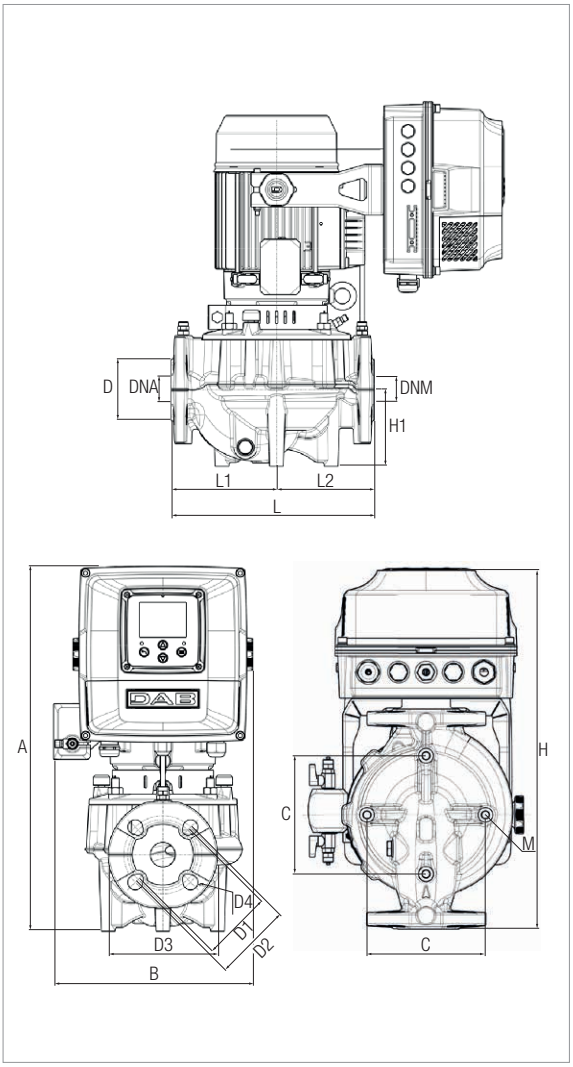
For the MEI index refer to the hydraulic data of the individual pump.
The performance curves are based on kinematic viscosity values = 1 mm^2/s and density equal to 1000 kg/m^3. Curve tolerance according to ISO 9906.

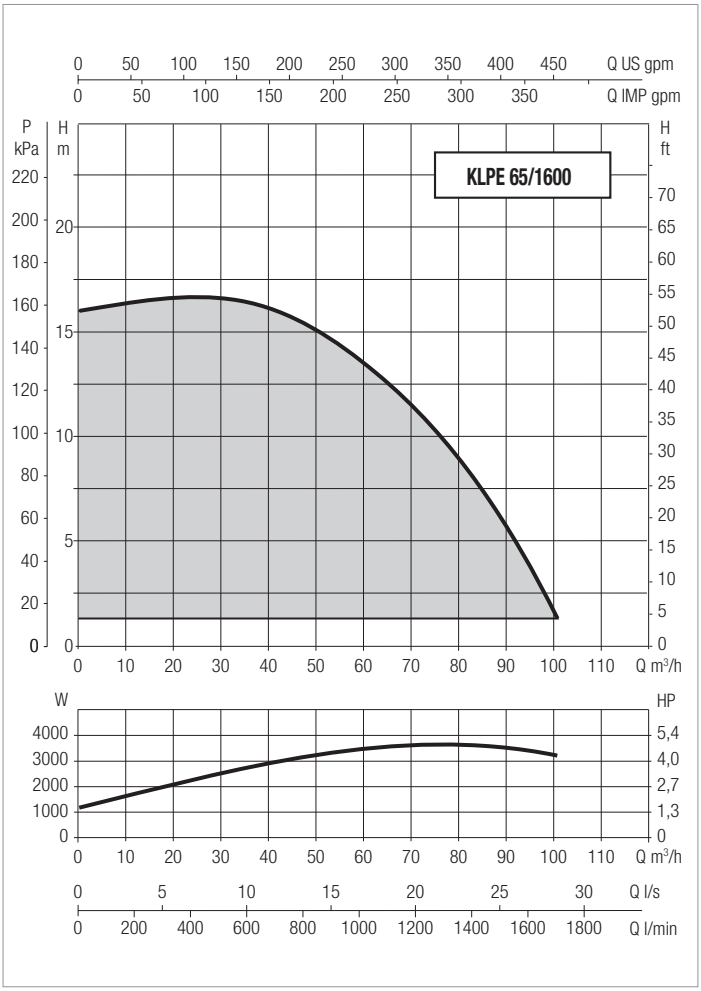
MODEL			ELECTRICAL DATA					
	CENTRE DISTANCE	PUMP CONNECTIONS	POWER INPUT 50 Hz	P1 MAX kW	P2 NOMINAL		I MAX [A]	
					kW	HP	230 V	400 V
KLPE 65-1200 M IE5	340	DN 65 PN 16	230 V	1,3	1,1	1,48	5,7	-

MODEL	BODY	A	B	C	D	D1	D2	D3	D4	H	H1	L	L1	L2	M	DNA	DNM	PACKING DIMENSIONS		
																		L/A	L/B	H
KLPE 65-1200 M IE5	KL65340	528	256	100	110	130	145	185	18	465	82	340	170	170	10	65	65	600	300	637

KLPE 65 - ELECTRONIC IN-LINE PUMPS FOR CIRCULATION SYSTEMS

Pumped liquid temperature range: from -15 °C to +120 °C - Maximum ambient temperature: +40°C





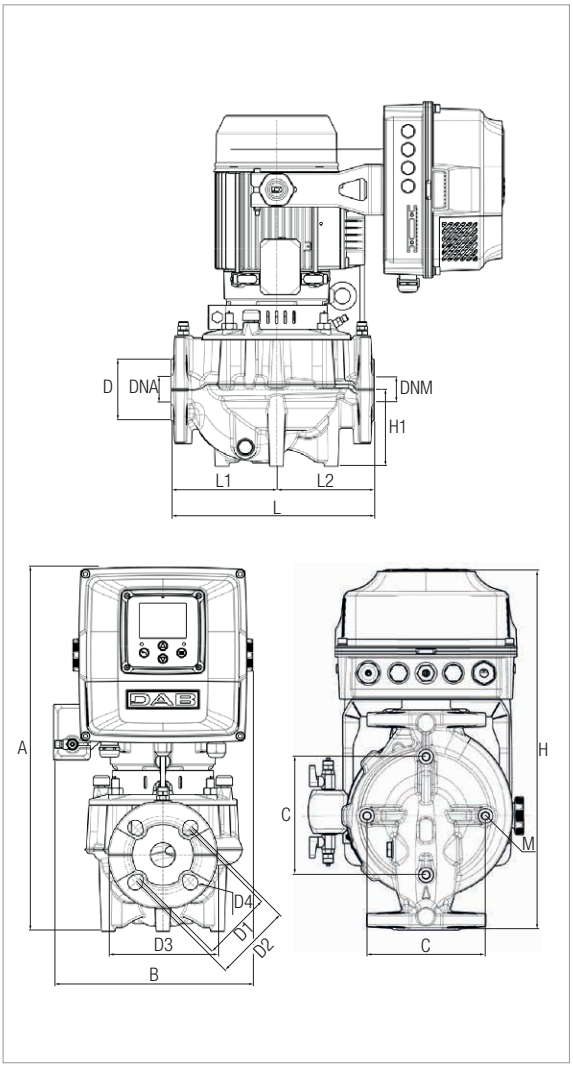
For the MEI index refer to the hydraulic data of the individual pump.
The performance curves are based on kinematic viscosity values = 1 mm^2/s and density equal to 1000 kg/m^3. Curve tolerance according to ISO 9906.

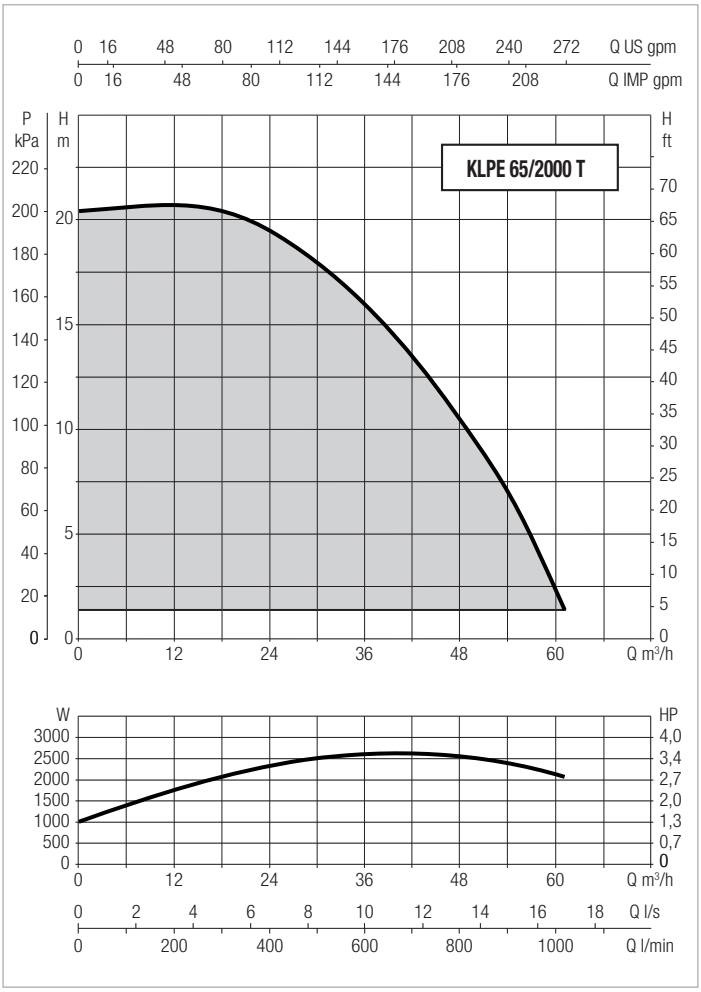
MODEL			ELECTRICAL DATA					
	CENTRE DISTANCE	PUMP CONNECTIONS	POWER INPUT 50 Hz	P1 MAX kW	P2 NOMINAL		I MAX [A]	
					kW	HP	230 V	400 V
KLPE 65-1600 IE5	340	DN 65 PN 16	400 V	1,9	2,2	2,95	-	3,4

MODEL	BODY	A	B	C	D	D1	D2	D3	D4	H	H1	L	L1	L2	M	DNA	DNM	PACKING DIMENSIONS		
																		L/A	L/B	H
KLPE 65-1600 M IE5	KL65340	528	256	100	110	130	145	185	18	465	82	340	170	170	10	65	65	600	300	637
KLPE 65-1600 T IE5	KL65340	528	270	100	110	130	145	185	18	465	82	340	170	170	10	65	65	600	300	637

KLPE 65 - ELECTRONIC IN-LINE PUMPS FOR CIRCULATION SYSTEMS

Pumped liquid temperature range: from -15 °C to +120 °C - Maximum ambient temperature: +40°C





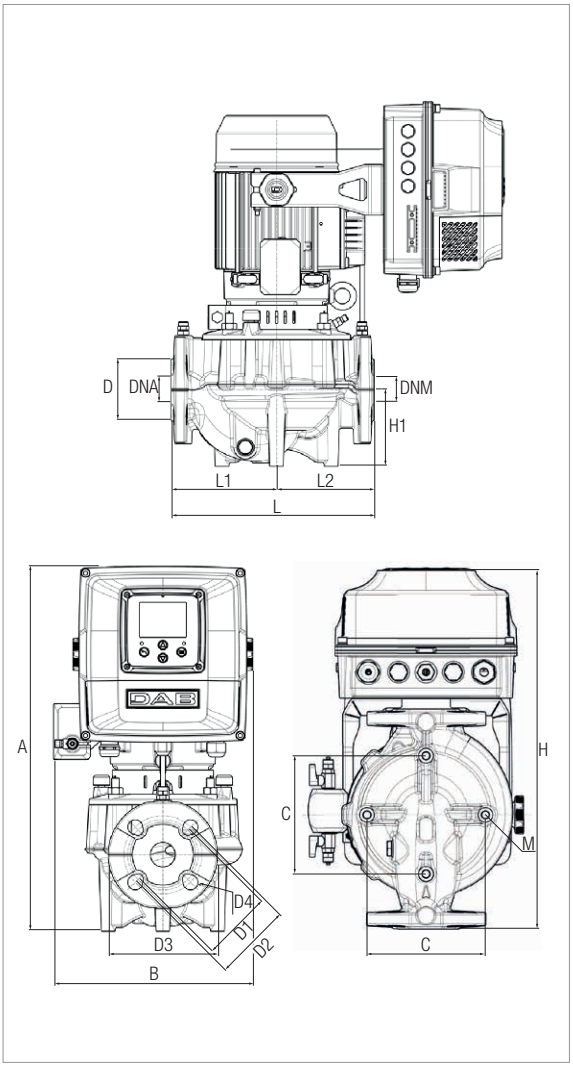
For the MEI index refer to the hydraulic data of the individual pump.
The performance curves are based on kinematic viscosity values = 1 mm^2/s and density equal to 1000 kg/m^3. Curve tolerance according to ISO 9906.

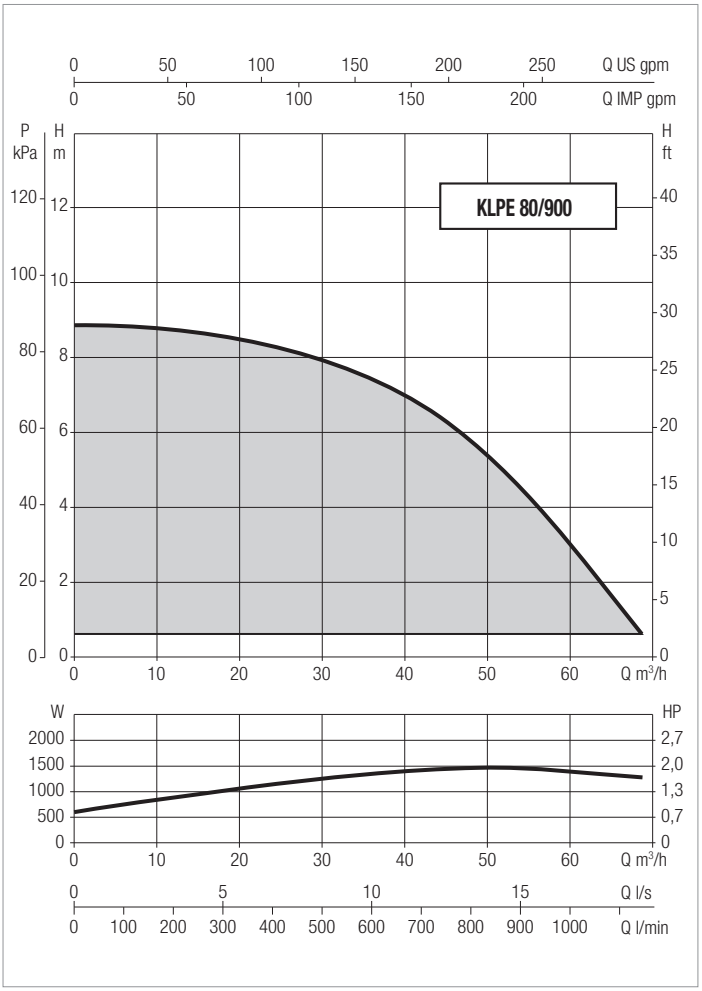
MODEL			ELECTRICAL DATA					
	CENTRE DISTANCE	PUMP CONNECTIONS	POWER INPUT 50 Hz	P1 MAX kW	P2 NOMINAL		I MAX [A]	
					kW	HP	230 V	400 V
KLPE 65-2000 IE5	340	DN 65 PN 16	400 V	2,6	2	2,68	-	4,2

MODEL	BODY	A	B	C	D	D1	D2	D3	D4	H	H1	L	L1	L2	M	DNA	DNM	PACKING DIMENSIONS		
																		L/A	L/B	H
KLPE 65-2000 T IE5	KL65340	528	270	100	110	130	145	185	18	465	82	340	170	170	10	65	65	600	300	637

KLPE 80 - ELECTRONIC IN-LINE PUMPS FOR CIRCULATION SYSTEMS

Pumped liquid temperature range: from -15 °C to +120 °C - **Maximum ambient temperature:** +40°C





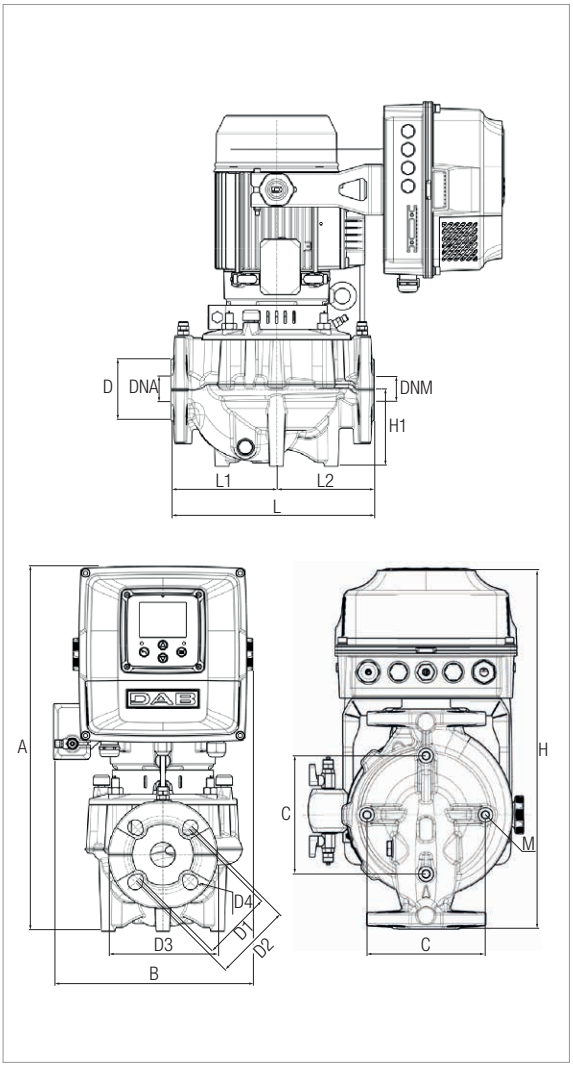
For the MEI index refer to the hydraulic data of the individual pump.
The performance curves are based on kinematic viscosity values = 1 mm^2/s and density equal to 1000 kg/m^3. Curve tolerance according to ISO 9906.

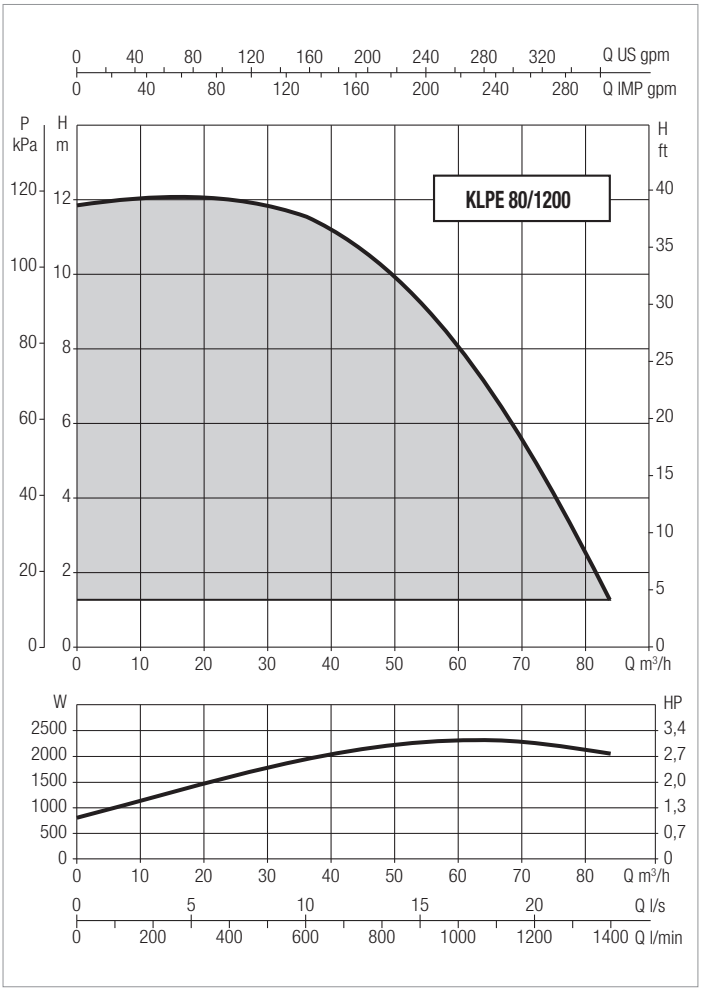
MODEL			ELECTRICAL DATA					
	CENTRE DISTANCE	PUMP CONNECTIONS	POWER INPUT 50 Hz	P1 MAX kW	P2 NOMINAL		I MAX [A]	
					kW	HP	230 V	400 V
KLPE 80-900 IE5	360	DN 80 PN 16	230 V	1,4	1,8	2,41	6,4	-
KLPE 80-900 IE5	360	DN 80 PN 16	400 V	1,4	1,8	2,41	-	2,7

MODEL	BODY	A	B	C	D	D1	D2	D3	D4	H	H1	L	L1	L2	M	DNA	DNM	PACKING DIMENSIONS		
																		L/A	L/B	H
KLPE 80-900 M IE5	KL80360	547	256	115	128	150	160	200	18	485	97	360	190	170	10	80	80	600	300	637
KLPE 80-900 T IE5	KL80360	547	272	115	128	150	160	200	18	485	97	360	190	170	10	80	80	600	300	637

KLPE 80 - ELECTRONIC IN-LINE PUMPS FOR CIRCULATION SYSTEMS

Pumped liquid temperature range: from -15 °C to +120 °C - **Maximum ambient temperature:** +40°C





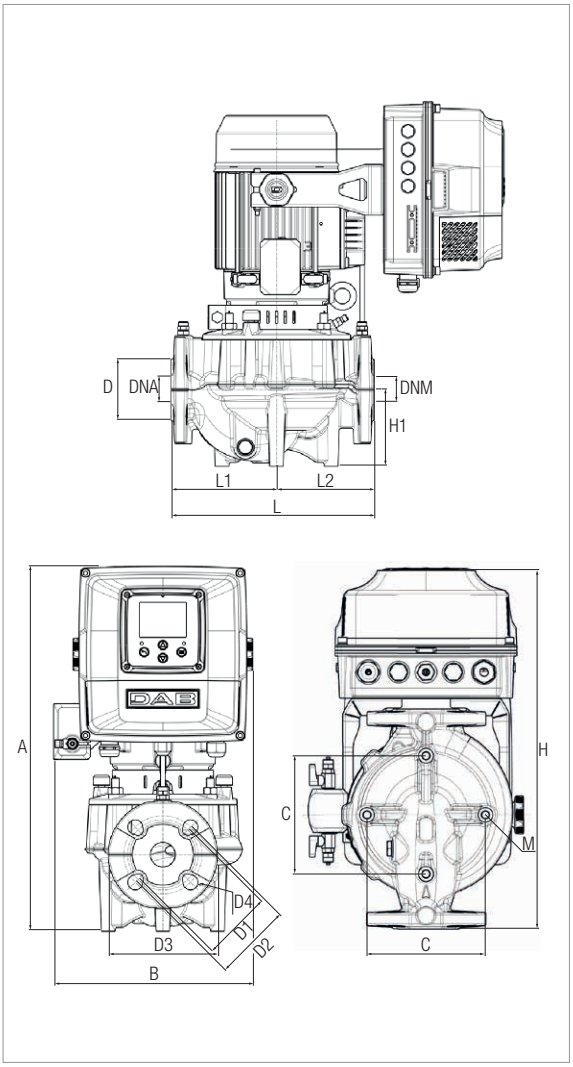
For the MEI index refer to the hydraulic data of the individual pump.
The performance curves are based on kinematic viscosity values = 1 mm^2/s and density equal to 1000 kg/m^3. Curve tolerance according to ISO 9906.

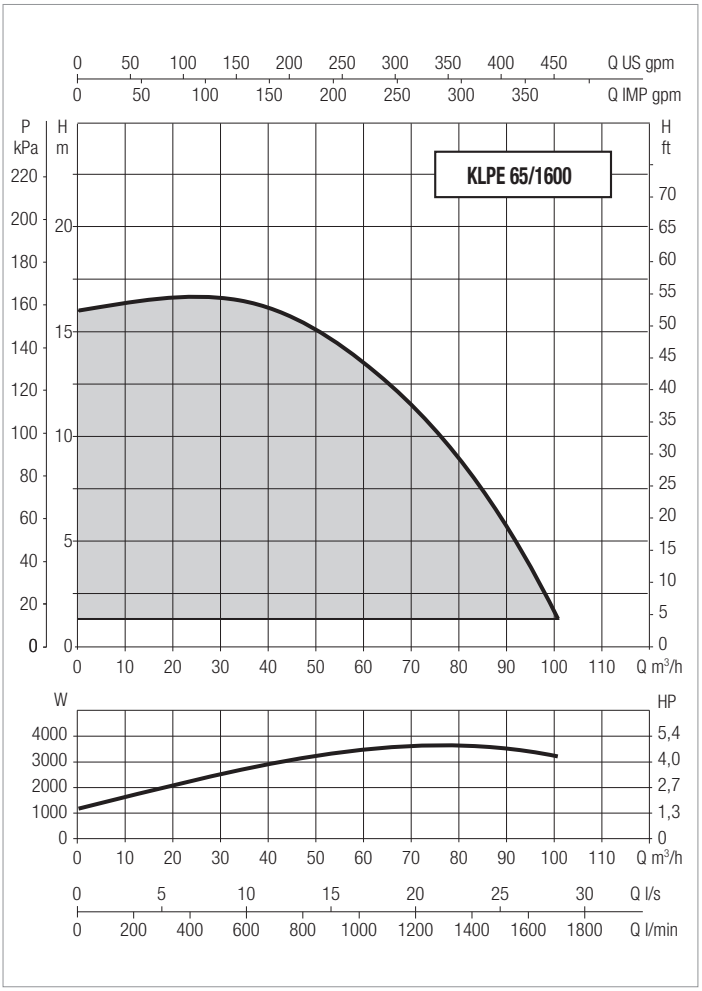
MODEL			ELECTRICAL DATA					
	CENTRE DISTANCE	PUMP CONNECTIONS	POWER INPUT 50 Hz	P1 MAX kW	P2 NOMINAL		I MAX [A]	
					kW	HP	230 V	400 V
KLPE 80-1200 IE5	360	DN 80 PN 16	230 V	2,3	1,8	2,41	10,1	-
KLPE 80-1200 IE5	360	DN 80 PN 16	400 V	2,2	1,8	2,41	-	3,8

MODEL	BODY	A	B	C	D	D1	D2	D3	D4	H	H1	L	L1	L2	M	DNA	DNM	PACKING DIMENSIONS		
																		L/A	L/B	H
KLPE 80-1200 M IE5	KL80360	547	271	115	128	150	160	200	18	485	95	360	190	170	10	80	80	600	300	637
KLPE 80-1200 T IE5	KL80360	547	272	115	128	150	160	200	18	485	97	360	190	170	10	80	80	600	300	637

KLPE 80 - ELECTRONIC IN-LINE PUMPS FOR CIRCULATION SYSTEMS

Pumped liquid temperature range: from -15 °C to +120 °C - Maximum ambient temperature: +40°C





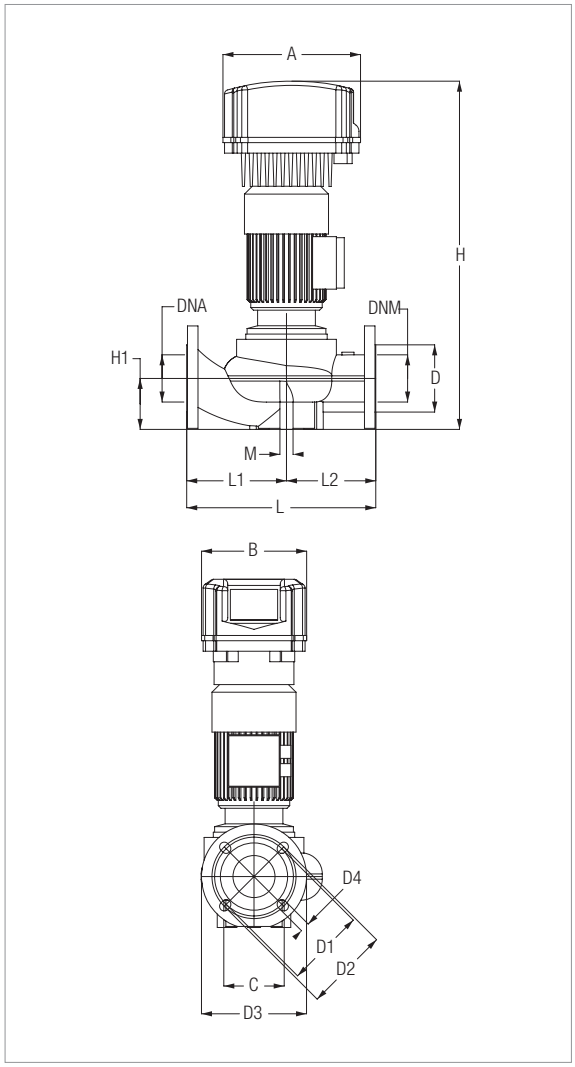
For the MEI index refer to the hydraulic data of the individual pump.
The performance curves are based on kinematic viscosity values = 1 mm^2/s and density equal to 1000 kg/m^3. Curve tolerance according to ISO 9906.

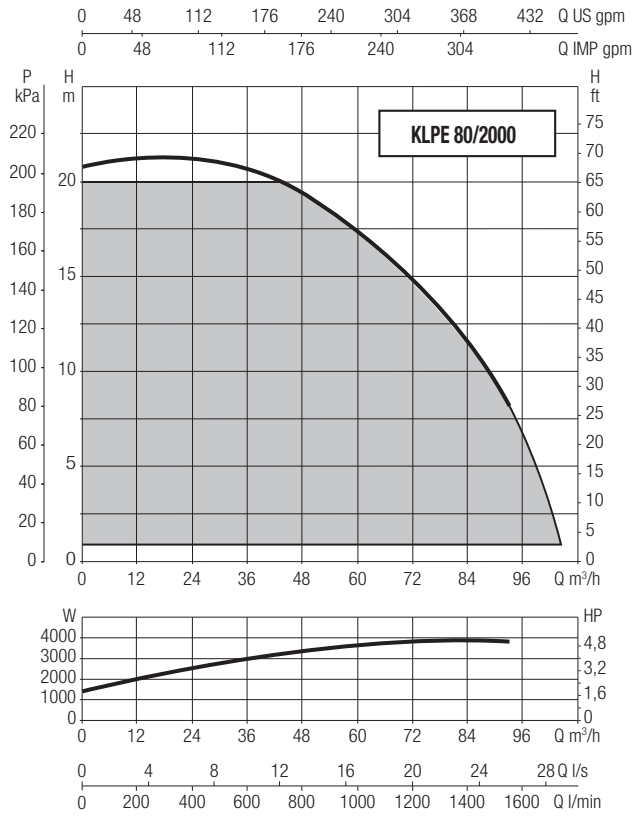
MODEL			ELECTRICAL DATA					
	CENTRE DISTANCE	PUMP CONNECTIONS	POWER INPUT 50 Hz	P1 MAX kW	P2 NOMINAL		I MAX [A]	
					kW	HP	230 V	400 V
KLPE 80-1600 IE5	360	DN 80 PN 16	400 V	3,6	2,5	3,35	-	5,8

MODEL	BODY	A	B	C	D	D1	D2	D3	D4	H	H1	L	L1	L2	M	DNA	DNM	PACKING DIMENSIONS		
																		L/A	L/B	H
KLPE 80-1600 T IE5	KL80360	547	272	115	128	150	160	200	18	485	97	360	190	170	10	80	80	600	300	637

KLPE 80 - ELECTRONIC IN-LINE PUMPS FOR CIRCULATION SYSTEMS

Pumped liquid temperature range: from -15 °C to +120 °C - Maximum ambient temperature: +40°C





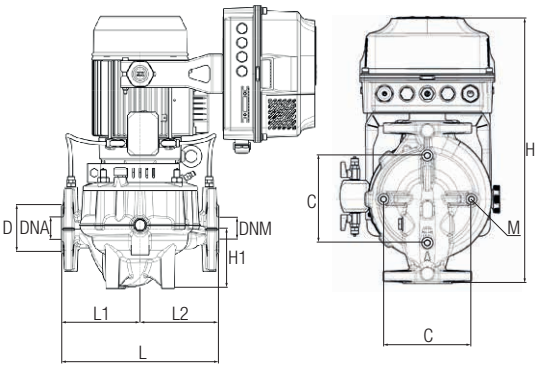
For the MEI index refer to the hydraulic data of the individual pump.
The performance curves are based on kinematic viscosity values = 1 mm^2/s and density equal to 1000 kg/m^3. Curve tolerance according to ISO 9906.

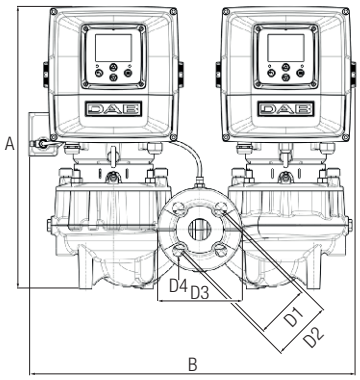
MODEL			ELECTRICAL DATA					
	CENTRE DISTANCE	PUMP CONNECTIONS	POWER INPUT 50 Hz	P1 MAX kW	P2 NOMINAL		I MAX [A]	
					kW	HP	230 V	400 V
KLPE 80-2000 T IE3	360	DN 80 PN 16	400 V	5	3,6	4,83	-	8,4

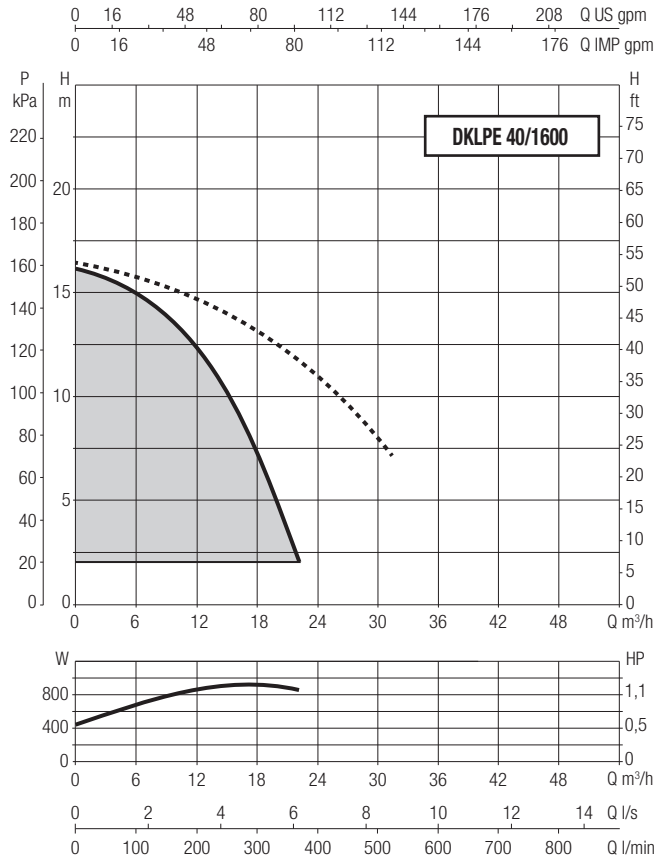
MODEL	A	B	B1	B2	C	D	D1	D2	D3	D4	H	H1	I	L	L1	L2	M	DNA	DNM	PACKING DIMENSIONS		
																				L/A	L/B	H
KLPE 80-2000 T IE3	352	267	-	-	115	128	150	160	200	4 HOLES 18x23	722	97	-	360	190	170	2 HOLES M12	80	80	520	290	450

DKLPE 40 - ELECTRONIC IN-LINE PUMPS FOR CIRCULATION SYSTEMS

Pumped liquid temperature range: from -15 °C to +120 °C - Maximum ambient temperature: +40°C







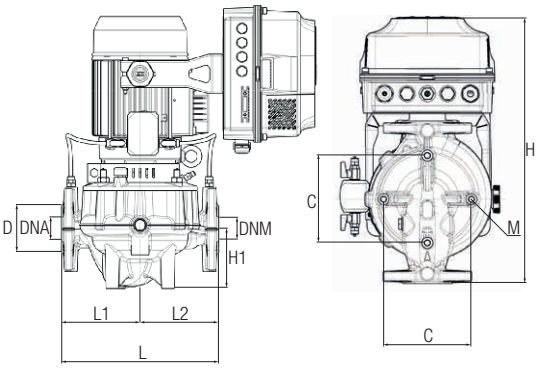
For the MEI index refer to the hydraulic data of the individual pump.
The performance curves are based on kinematic viscosity values = 1 mm^2/s and density equal to 1000 kg/m^3. Curve tolerance according to ISO 9906.

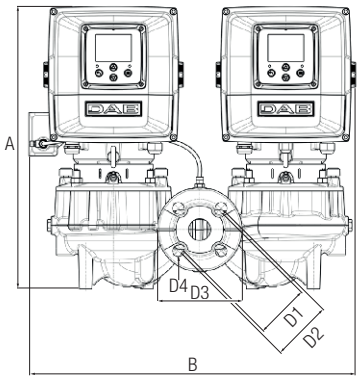
MODEL			ELECTRICAL DATA					
	CENTRE DISTANCE	PUMP CONNECTIONS	POWER INPUT 50 Hz	P1 MAX kW	P2 NOMINAL		I MAX [A]	
					kW	HP	230 V	400 V
DKLPE 40-1600 IE5	250	DN 40 PN 16	230 V	0,95	0,7	0,94	4,2	-

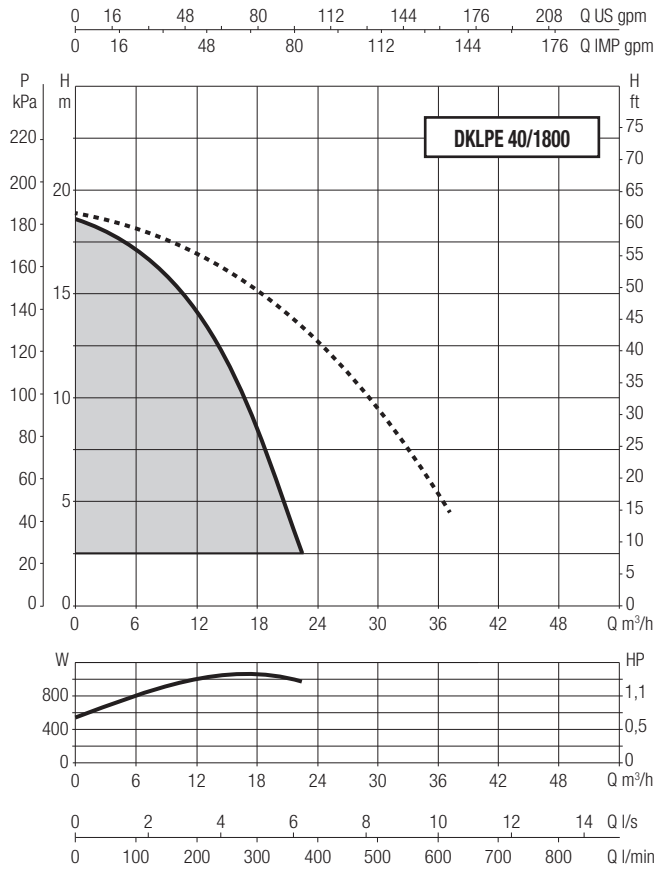
MODEL	BODY	A	B	C1	C2	D	D1	D2	D3	D4	H	H1	L	L1	L2	M	DNA	DNM	PACKING DIMENSIONS		
																			L/A	L/B	H
DKLPE 40-1600 IE5	KL40250	419	475	100	212	80	100	110	150	18	416	66	250	125	125	10	40	40	600	300	637

DKLPE 40 - ELECTRONIC IN-LINE PUMPS FOR CIRCULATION SYSTEMS

Pumped liquid temperature range: from -15 °C to +120 °C - Maximum ambient temperature: +40°C







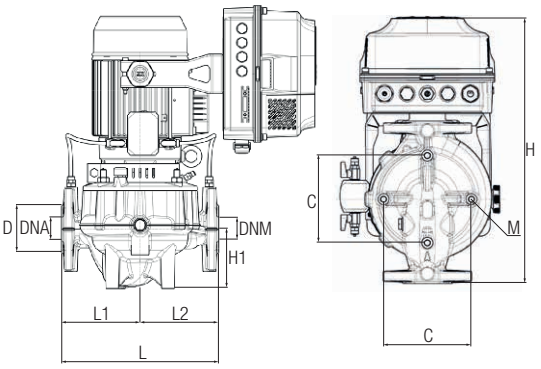
For the MEI index refer to the hydraulic data of the individual pump.
The performance curves are based on kinematic viscosity values = 1 mm^2/s and density equal to 1000 kg/m^3. Curve tolerance according to ISO 9906.

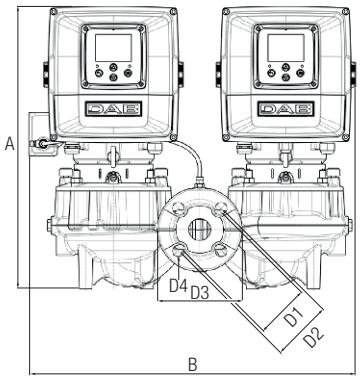
MODEL			ELECTRICAL DATA					
	CENTRE DISTANCE	PUMP CONNECTIONS	POWER INPUT 50 Hz	P1 MAX kW	P2 NOMINAL		I MAX [A]	
					kW	HP	230 V	400 V
DKLPE 40-1800 IE5	250	DN 40 PN 16	230 V	1,1	0,8	1,07	4,8	-

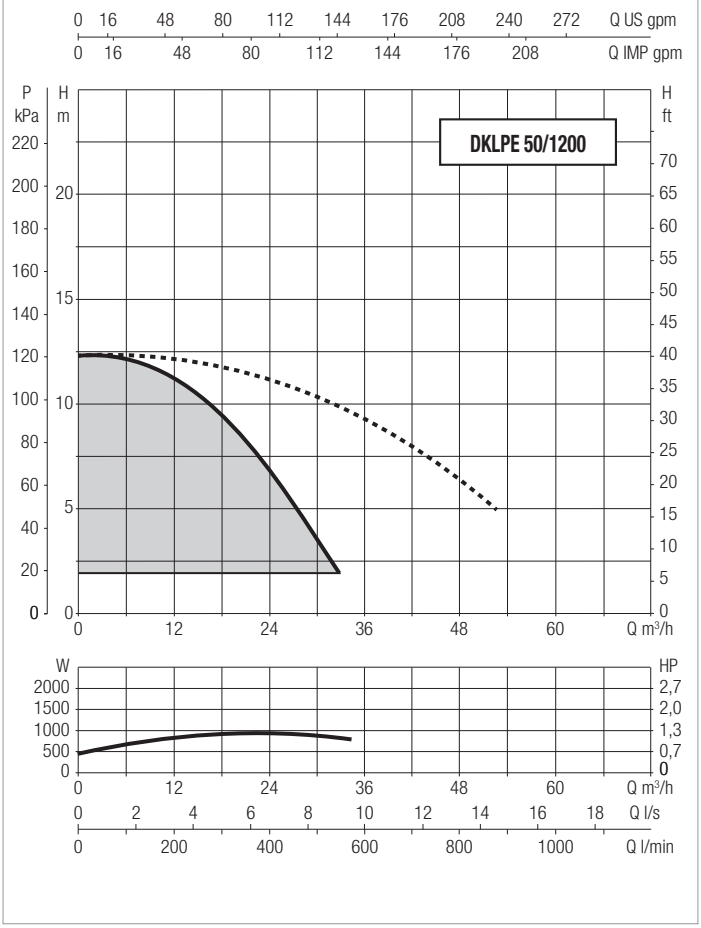
MODEL	BODY	A	B	C1	C2	D	D1	D2	D3	D4	H	H1	L	L1	L2	M	DNA	DNM	PACKING DIMENSIONS		
																			L/A	L/B	H
DKLPE 40-1800 IE5	KL40250	419	475	100	212	80	100	110	150	18	416	66	250	125	125	10	40	40	600	300	637

DKLPE 50 - ELECTRONIC IN-LINE PUMPS FOR CIRCULATION SYSTEMS

Pumped liquid temperature range: from -15 °C to +120 °C - Maximum ambient temperature: +40°C







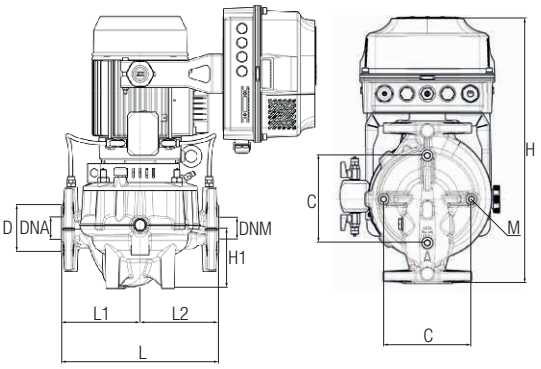
For the MEI index refer to the hydraulic data of the individual pump.
The performance curves are based on kinematic viscosity values = 1 mm^2/s and density equal to 1000 kg/m^3. Curve tolerance according to ISO 9906.

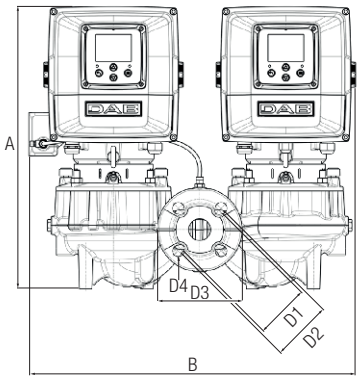
MODEL			ELECTRICAL DATA					
	CENTRE DISTANCE	PUMP CONNECTIONS	POWER INPUT 50 Hz	P1 MAX kW	P2 NOMINAL		I MAX [A]	
					kW	HP	230 V	400 V
DKLPE 50-1200 IE5	280	DN 50 PN 16	230 V	0,98	0,7	0,9	4,3	-

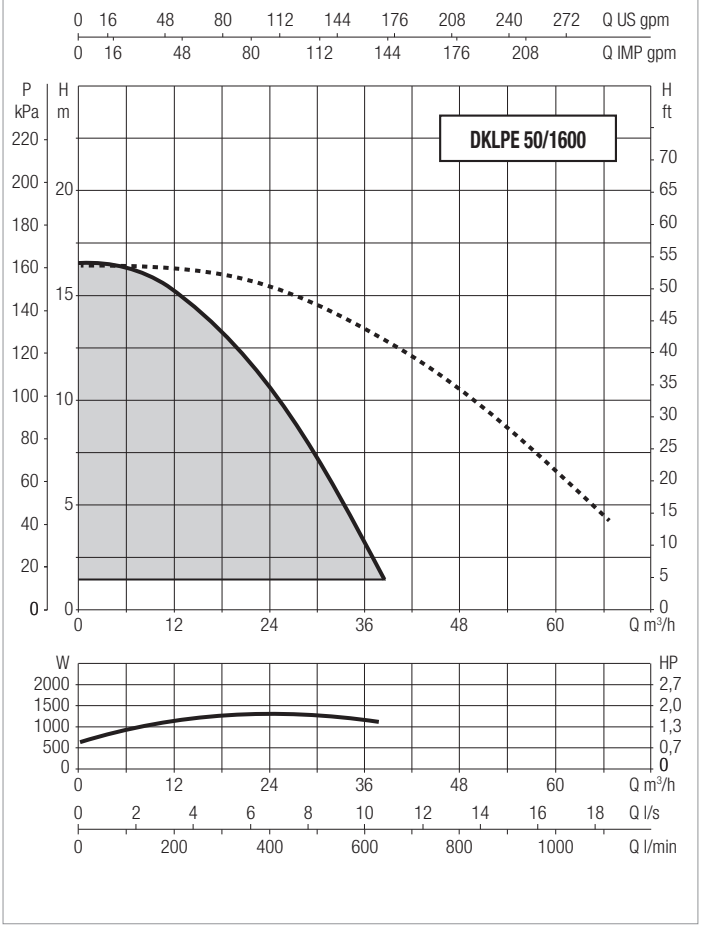
MODEL	BODY	A	B	C1	C2	D	D1	D2	D3	D4	H	H1	L	L1	L2	M	DNA	DNM	PACKING DIMENSIONS		
																			L/A	L/B	H
DKLPE 50-1200 IE5	KL50280	438	555	100	392	90	110	125	165	18	431	73	280	140	140	10	50	50	600	300	637

DKLPE 50 - ELECTRONIC IN-LINE PUMPS FOR CIRCULATION SYSTEMS

Pumped liquid temperature range: from -15 °C to +120 °C - Maximum ambient temperature: +40°C







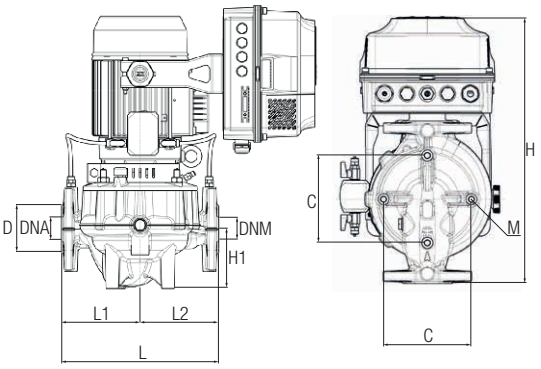
For the MEI index refer to the hydraulic data of the individual pump.
The performance curves are based on kinematic viscosity values = 1 mm^2/s and density equal to 1000 kg/m^3. Curve tolerance according to ISO 9906.

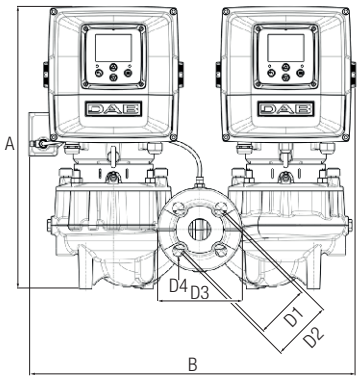
MODEL			ELECTRICAL DATA					
	CENTRE DISTANCE	PUMP CONNECTIONS	POWER INPUT 50 Hz	P1 MAX kW	P2 NOMINAL		I MAX [A]	
					kW	HP	230 V	400 V
DKLPE 50-1600 IE5	280	DN 50 PN 16	230 V	1,4	1	1,3	6,2	-

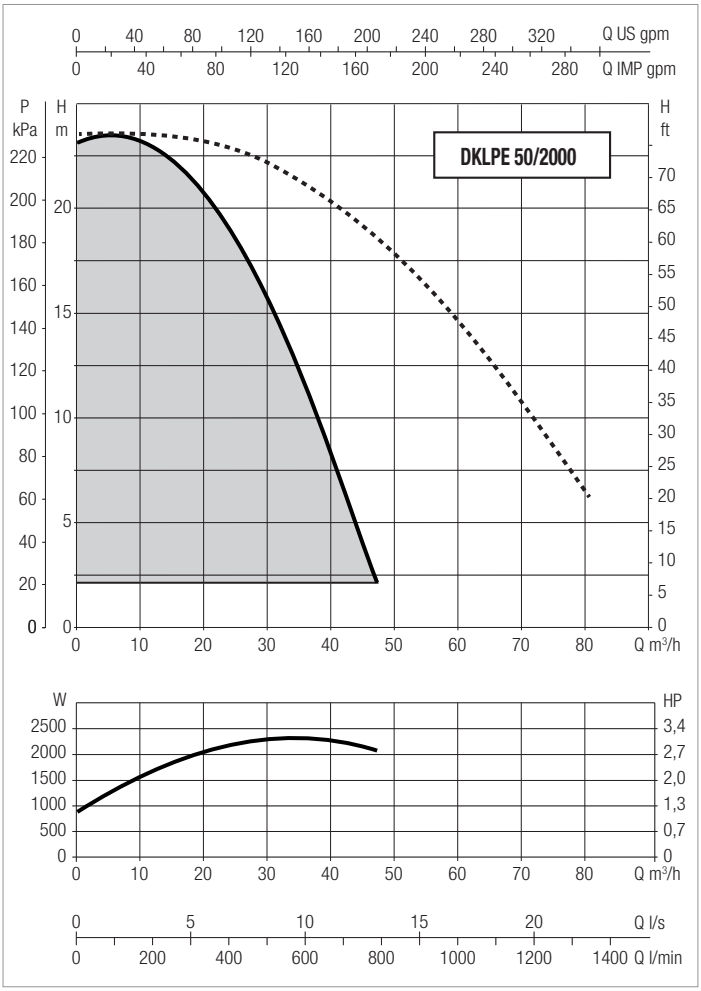
MODEL	BODY	A	B	C1	C2	D	D1	D2	D3	D4	H	H1	L	L1	L2	M	DNA	DNM	PACKING DIMENSIONS		
																			L/A	L/B	H
DKLPE 50-1600 IE5	KL50280	508	555	100	392	90	110	125	165	18	435	73	280	140	140	10	50	50	600	300	637

DKLPE 50 - ELECTRONIC IN-LINE PUMPS FOR CIRCULATION SYSTEMS

Pumped liquid temperature range: from -15 °C to +120 °C - Maximum ambient temperature: +40°C







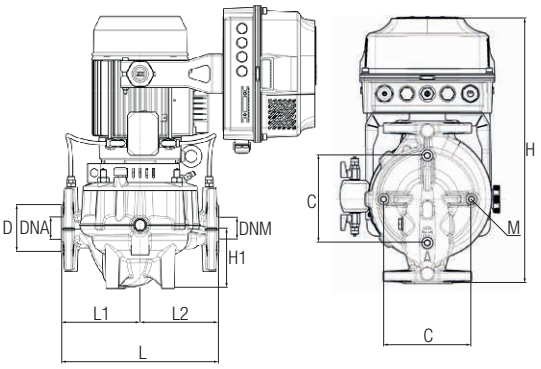
For the MEI index refer to the hydraulic data of the individual pump.
The performance curves are based on kinematic viscosity values = 1 mm^2/s and density equal to 1000 kg/m^3. Curve tolerance according to ISO 9906.

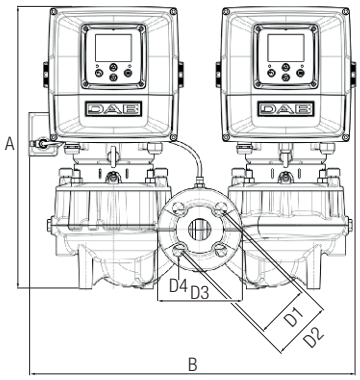
MODEL			ELECTRICAL DATA					
	CENTRE DISTANCE	PUMP CONNECTIONS	POWER INPUT 50 Hz	P1 MAX kW	P2 NOMINAL		I MAX [A]	
					kW	HP	230 V	400 V
DKLPE 50-2000 IE5	280	DN 50 PN 16	230 V	2,3	1,8	2,4	10,04	-
DKLPE 50-2000 IE5	280	DN 50 PN 16	400 V	2,4	1,8	2,4	4,07	-

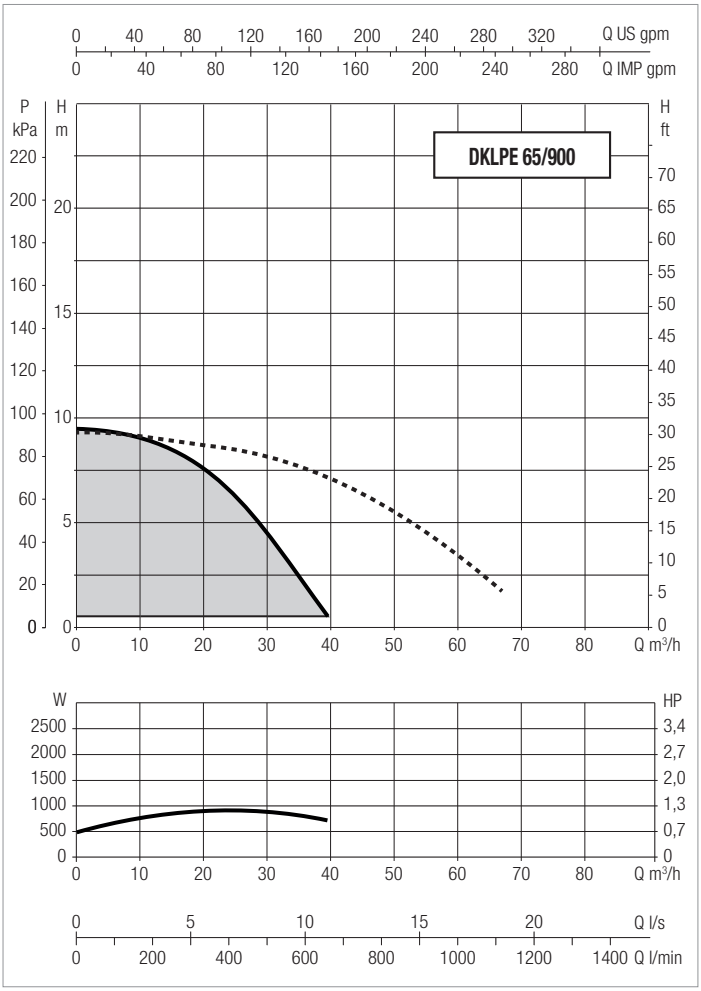
MODEL	BODY	A	B	C1	C2	D	D1	D2	D3	D4	H	H1	L	L1	L2	M	DNA	DNM	PACKING DIMENSIONS		
																			L/A	L/B	H
DKLPE 50-2000 M IE5	KL50280	508	555	100	392	90	110	125	165	18	435	73	280	140	140	10	50	50	600	300	637
DKLPE 50-2000 T IE5	KL50280	508	555	100	392	90	110	125	165	18	435	73	280	140	140	10	50	50	600	300	637

DKLPE 65 - ELECTRONIC IN-LINE PUMPS FOR CIRCULATION SYSTEMS

Pumped liquid temperature range: from -15 °C to +120 °C - Maximum ambient temperature: +40°C







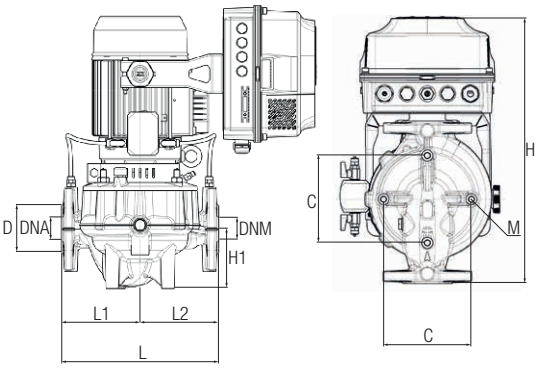
For the MEI index refer to the hydraulic data of the individual pump.
The performance curves are based on kinematic viscosity values = 1 mm^2/s and density equal to 1000 kg/m^3. Curve tolerance according to ISO 9906.

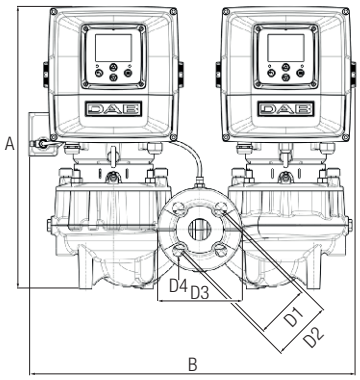
MODEL			ELECTRICAL DATA					
	CENTRE DISTANCE	PUMP CONNECTIONS	POWER INPUT 50 Hz	P1 MAX kW	P2 NOMINAL		I MAX [A]	
					kW	HP	230 V	400 V
DKLPE 65-900 IE5	340	DN 65 PN 16	230 V	0,95	1,1	1,48	4,2	-

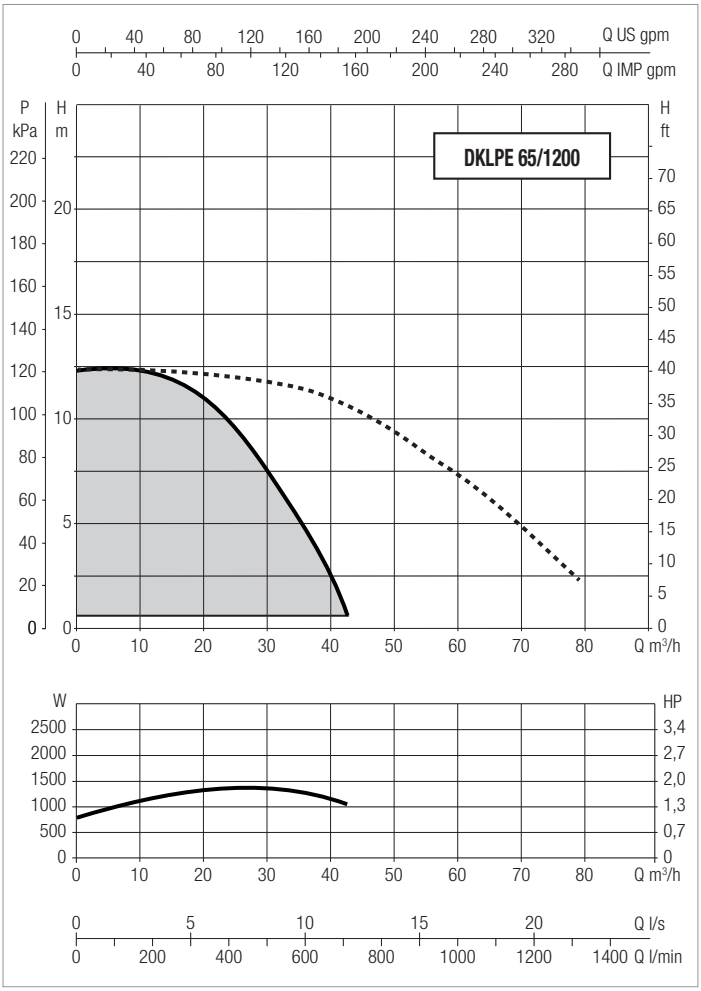
MODEL	BODY	A	B	C1	C2	D	D1	D2	D3	D4	H	H1	L	L1	L2	M	DNA	DNM	PACKING DIMENSIONS		
																			L/A	L/B	H
DKLPE 65-900 M IE5	KL65340	458	495	100	240	110	130	145	185	18	461	82	340	170	170	10	65	65	600	300	637

DKLPE 65 - ELECTRONIC IN-LINE PUMPS FOR CIRCULATION SYSTEMS

Pumped liquid temperature range: from -15 °C to +120 °C - Maximum ambient temperature: +40°C







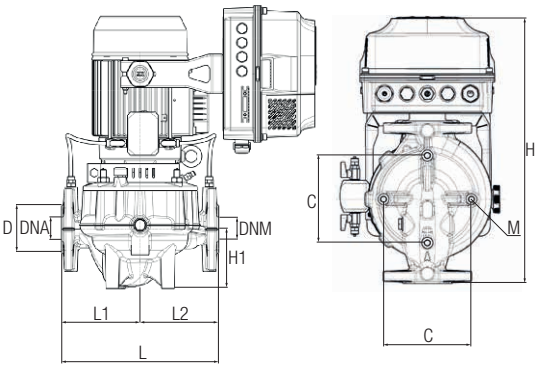
For the MEI index refer to the hydraulic data of the individual pump.
The performance curves are based on kinematic viscosity values = 1 mm^2/s and density equal to 1000 kg/m^3. Curve tolerance according to ISO 9906.

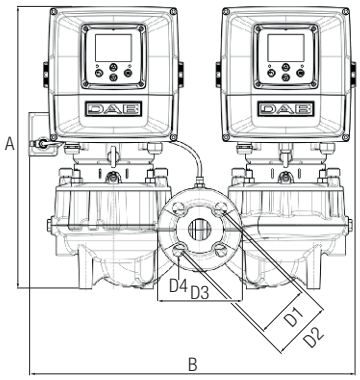
MODEL			ELECTRICAL DATA					
	CENTRE DISTANCE	PUMP CONNECTIONS	POWER INPUT 50 Hz	P1 MAX kW	P2 NOMINAL		I MAX [A]	
					kW	HP	230 V	400 V
DKLPE 65-1200 IE5	340	DN 65 PN 16	230 V	1,3	1,1	1,48	5,7	-

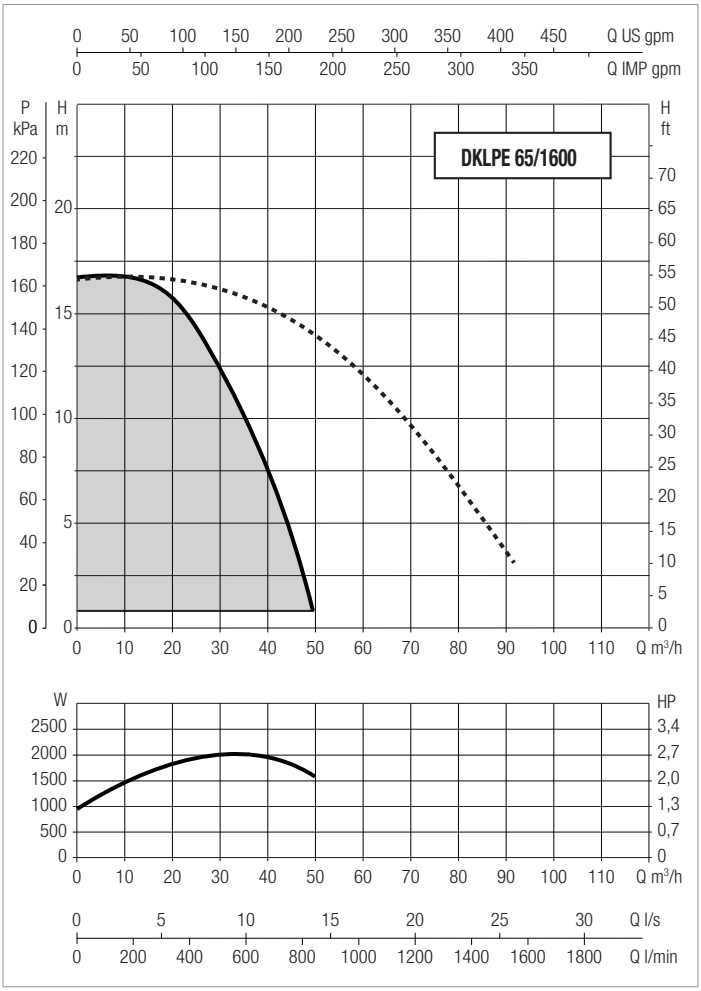
MODEL	BODY	A	B	C1	C2	D	D1	D2	D3	D4	H	H1	L	L1	L2	M	DNA	DNM	PACKING DIMENSIONS		
																			L/A	L/B	H
DKLPE 65-1200 M IE5	KL65340	528	495	100	240	110	130	145	185	18	465	82	340	170	170	10	65	65	600	300	637

DKLPE 65 - ELECTRONIC IN-LINE PUMPS FOR CIRCULATION SYSTEMS

Pumped liquid temperature range: from -15 °C to +120 °C - Maximum ambient temperature: +40°C







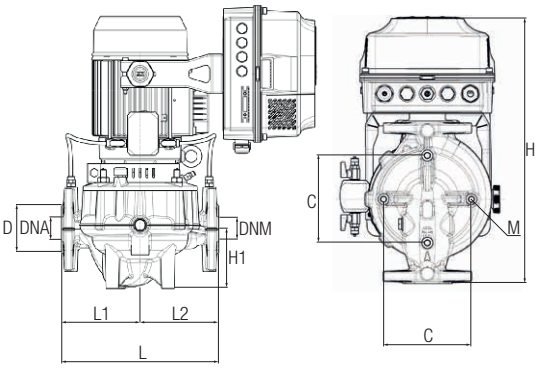
For the MEI index refer to the hydraulic data of the individual pump.
The performance curves are based on kinematic viscosity values = 1 mm^2/s and density equal to 1000 kg/m^3. Curve tolerance according to ISO 9906.

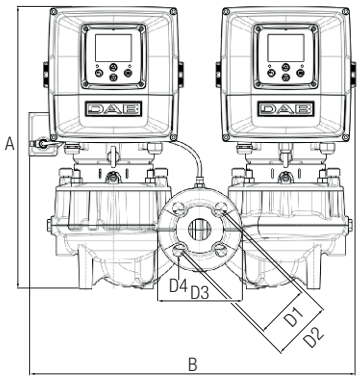
MODEL			ELECTRICAL DATA					
	CENTRE DISTANCE	PUMP CONNECTIONS	POWER INPUT 50 Hz	P1 MAX kW	P2 NOMINAL		I MAX [A]	
					kW	HP	230 V	400 V
DKLPE 65-1600 IE5	340	DN 65 PN 16	230 V	2	1,6	2,15	8,7	-
DKLPE 65-1600 IE5	340	DN 65 PN 16	400 V	1,9	2,2	2,95	-	3,4

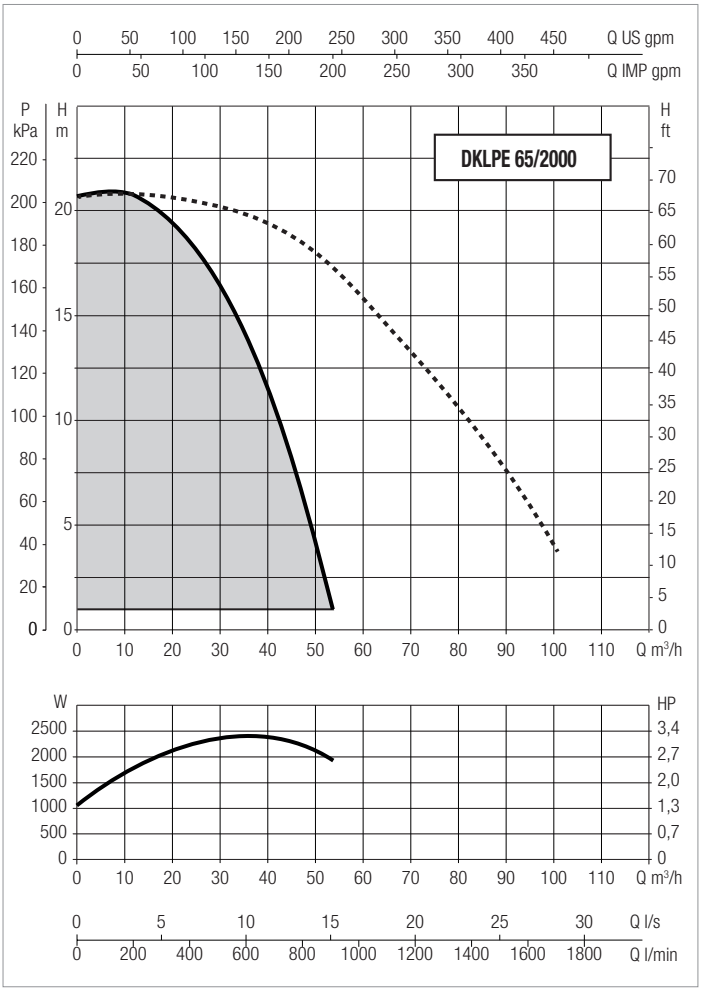
MODEL	BODY	A	B	C1	C2	D	D1	D2	D3	D4	H	H1	L	L1	L2	M	DNA	DNM	PACKING DIMENSIONS		
																			L/A	L/B	H
DKLPE 65-1600 M IE5	KL65340	528	495	100	240	110	130	145	185	18	465	82	340	170	170	10	65	65	600	300	637
DKLPE 65-1600 T IE5	KL65340	528	495	100	240	110	130	145	185	18	465	82	340	170	170	10	65	65	600	300	637

DKLPE 65 - ELECTRONIC IN-LINE PUMPS FOR CIRCULATION SYSTEMS

Pumped liquid temperature range: from -15 °C to +120 °C - Maximum ambient temperature: +40°C







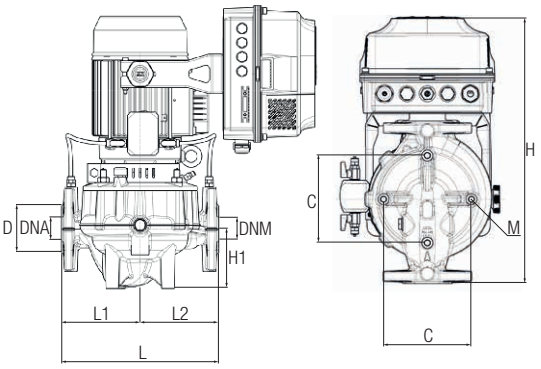
For the MEI index refer to the hydraulic data of the individual pump.
The performance curves are based on kinematic viscosity values = 1 mm^2/s and density equal to 1000 kg/m^3. Curve tolerance according to ISO 9906.

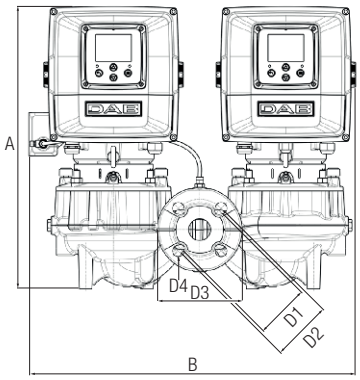
MODEL			ELECTRICAL DATA					
	CENTRE DISTANCE	PUMP CONNECTIONS	POWER INPUT 50 Hz	P1 MAX kW	P2 NOMINAL		I MAX [A]	
					kW	HP	230 V	400 V
DKLPE 65-2000 IE5	340	DN 65 PN 16	400 V	2,6	2	2,68	-	4,2

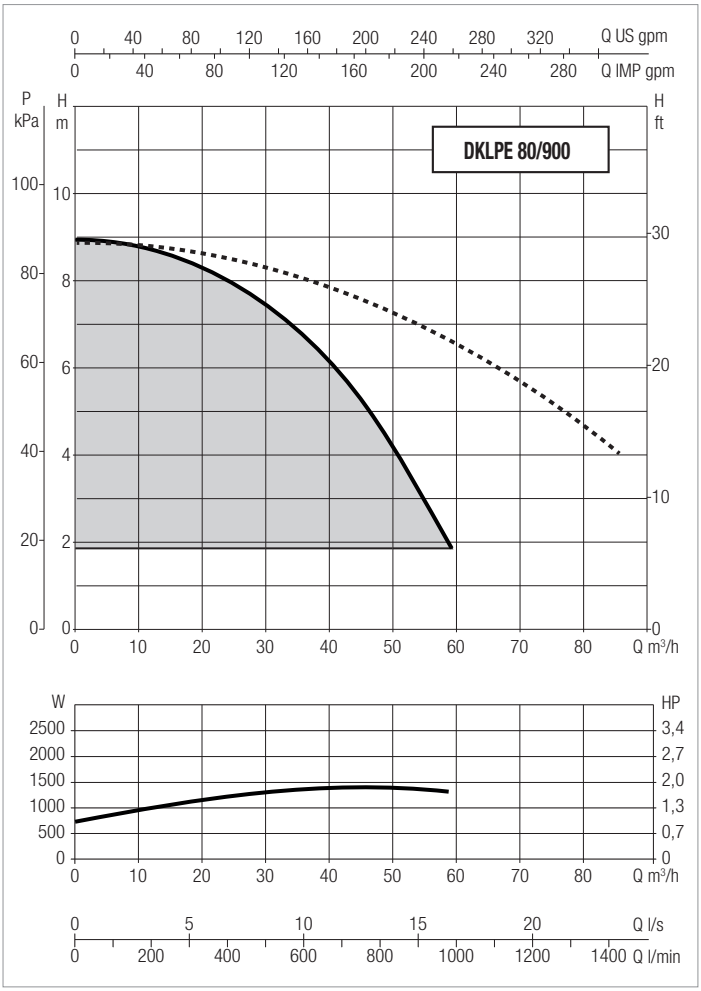
MODEL	BODY	A	B	C1	C2	D	D1	D2	D3	D4	H	H1	L	L1	L2	M	DNA	DNM	PACKING DIMENSIONS		
																			L/A	L/B	H
DKLPE 65-2000 IE5	KL65340	528	495	100	240	110	130	145	185	18	465	82	340	170	170	10	65	65	600	300	637

DKLPE 80 - ELECTRONIC IN-LINE PUMPS FOR CIRCULATION SYSTEMS

Pumped liquid temperature range: from -15 °C to +120 °C - Maximum ambient temperature: +40°C







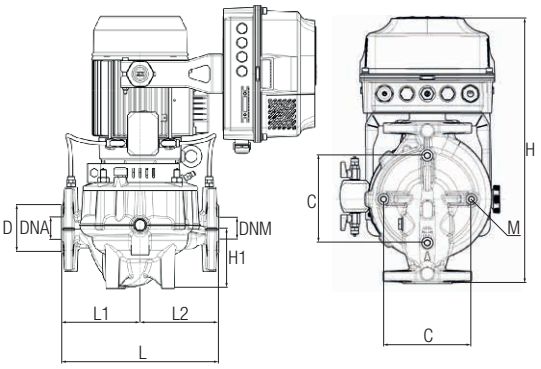
For the MEI index refer to the hydraulic data of the individual pump.
The performance curves are based on kinematic viscosity values = 1 mm^2/s and density equal to 1000 kg/m^3. Curve tolerance according to ISO 9906.

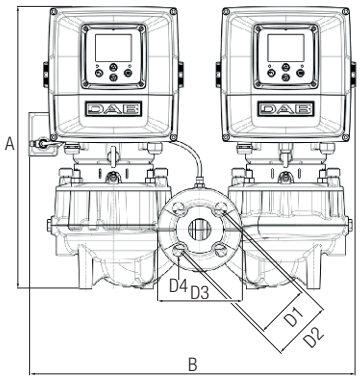
MODEL			ELECTRICAL DATA					
	CENTRE DISTANCE	PUMP CONNECTIONS	POWER INPUT 50 Hz	P1 MAX kW	P2 NOMINAL		I MAX [A]	
					kW	HP	230 V	400 V
DKLPE 80-900 IE5	360	DN 80 PN 16	230 V	1,4	1,8	2,41	6,4	-
DKLPE 80-900 IE5	360	DN 80 PN 16	400 V	1,4	1,8	2,41	-	2,7

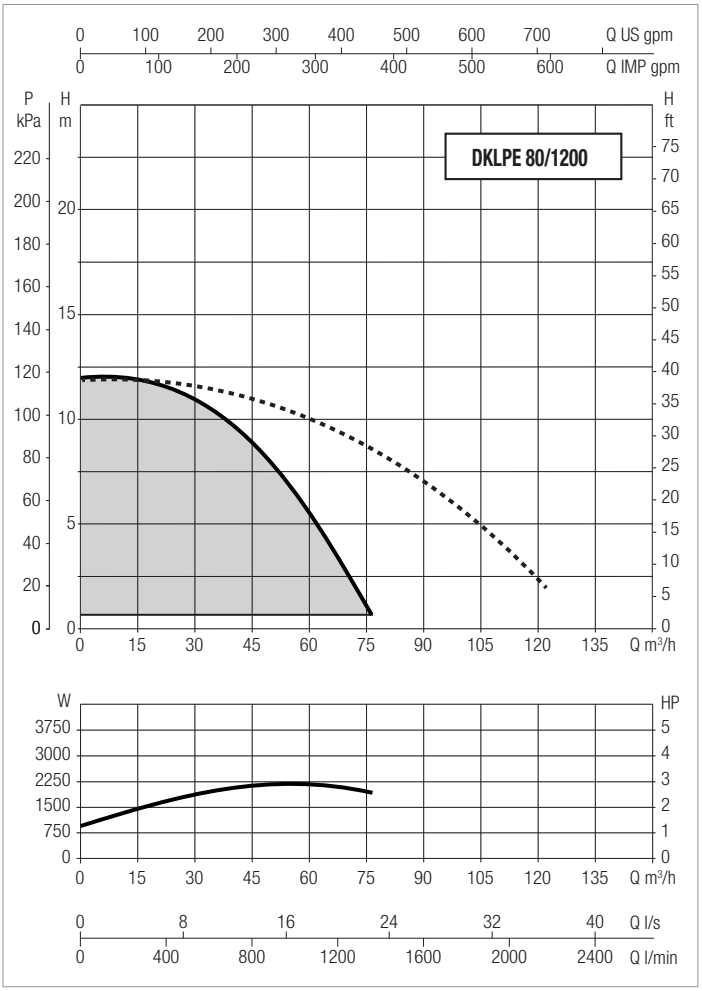
MODEL	BODY	A	B	C1	C2	D	D1	D2	D3	D4	H	H1	L	L1	L2	M	DNA	DNM	PACKING DIMENSIONS		
																			L/A	L/B	H
DKLPE 80-900 M IE5	KL80360	547	496	115	240	128	150	160	200	18	485	97	360	190	170	10	80	80	600	300	637
DKLPE 80-900 T IE5	KL80360	547	496	115	240	128	150	160	200	18	485	97	360	190	170	10	80	80	600	300	637

DKLPE 80 - ELECTRONIC IN-LINE PUMPS FOR CIRCULATION SYSTEMS

Pumped liquid temperature range: from -15 °C to +120 °C - Maximum ambient temperature: +40°C







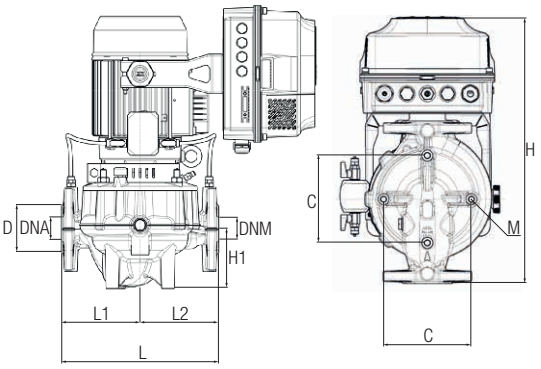
For the MEI index refer to the hydraulic data of the individual pump.
The performance curves are based on kinematic viscosity values = 1 mm^2/s and density equal to 1000 kg/m^3. Curve tolerance according to ISO 9906.

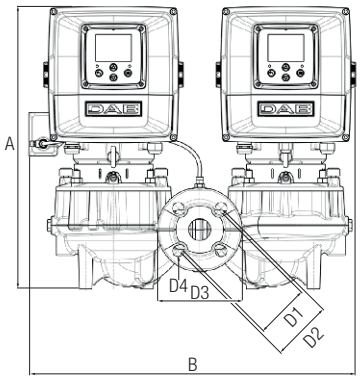
MODEL			ELECTRICAL DATA					
	CENTRE DISTANCE	PUMP CONNECTIONS	POWER INPUT 50 Hz	P1 MAX kW	P2 NOMINAL		I MAX [A]	
					kW	HP	230 V	400 V
DKLPE 80-1200 IE5	360	DN 80 PN 16	230 V	2,3	1,8	2,41	10,1	-
DKLPE 80-1200 IE5	360	DN 80 PN 16	400 V	2,2	1,8	2,41	-	3,8

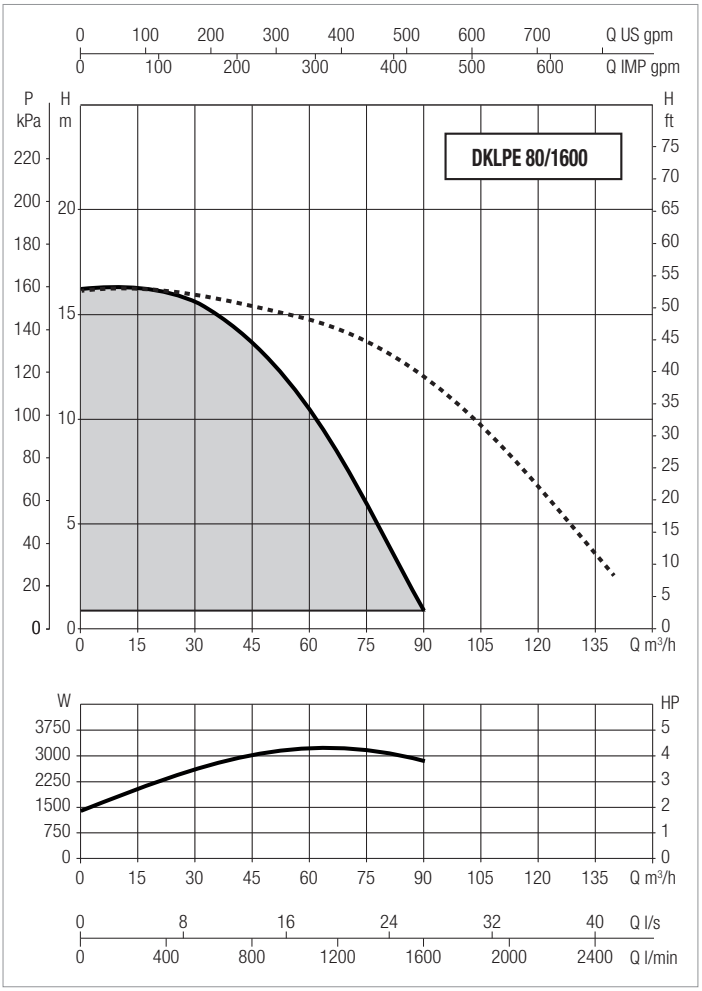
MODEL	BODY	A	B	C1	C2	D	D1	D2	D3	D4	H	H1	L	L1	L2	M	DNA	DNM	PACKING DIMENSIONS		
																			L/A	L/B	H
DKLPE 80-1200 M IE5	KL80360	547	496	115	240	128	150	160	200	18	485	95	360	190	170	10	80	80	600	300	637
DKLPE 80-1200 T IE5	KL80360	547	496	115	240	128	150	160	200	18	485	97	360	190	170	10	80	80	600	300	637

DKLPE 80 - ELECTRONIC IN-LINE PUMPS FOR CIRCULATION SYSTEMS

Pumped liquid temperature range: from -15 °C to +120 °C - Maximum ambient temperature: +40°C







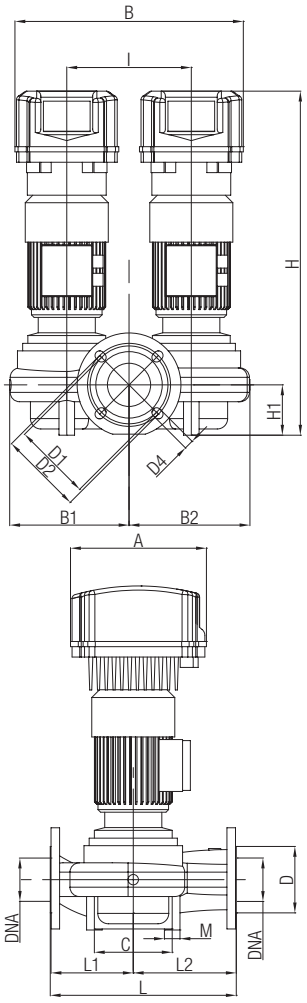
For the MEI index refer to the hydraulic data of the individual pump.
The performance curves are based on kinematic viscosity values = 1 mm^2/s and density equal to 1000 kg/m^3. Curve tolerance according to ISO 9906.

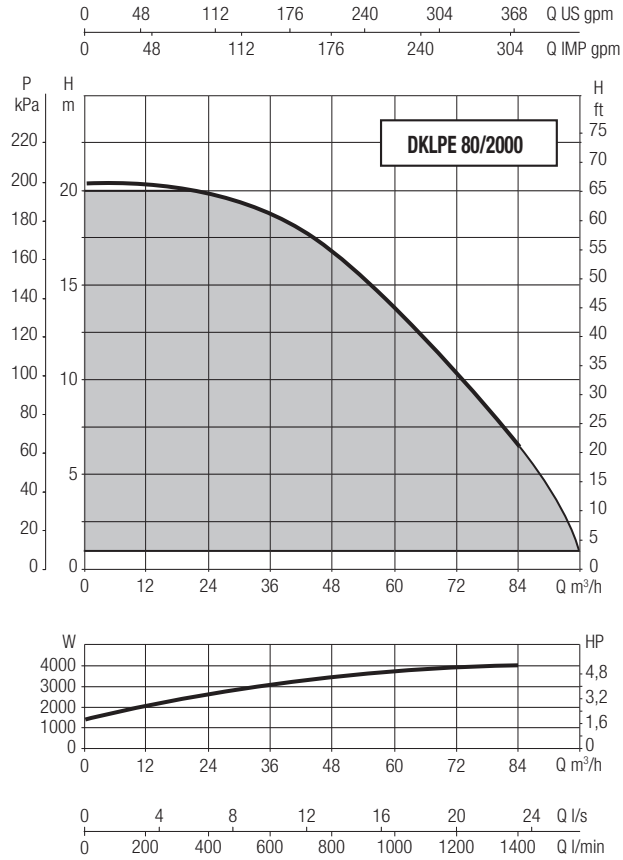
MODEL			ELECTRICAL DATA					
	CENTRE DISTANCE	PUMP CONNECTIONS	POWER INPUT 50 Hz	P1 MAX kW	P2 NOMINAL		I MAX [A]	
					kW	HP	230 V	400 V
DKLPE 80-1600 IE5	360	DN 80 PN 16	400 V	3,6	2,5	3,35	-	5,8

MODEL	BODY	A	B	C1	C2	D	D1	D2	D3	D4	H	H1	L	L1	L2	M	DNA	DNM	PACKING DIMENSIONS		
																			L/A	L/B	H
DKLPE 80-1600 T IE5	KL80360	547	496	115	240	128	150	160	200	18	485	97	360	190	170	10	80	80	600	300	637

DKLPE 80 - ELECTRONIC IN-LINE PUMPS FOR CIRCULATION SYSTEMS

Pumped liquid temperature range: from -15 °C to +120 °C - Maximum ambient temperature: +40°C





For the MEI index refer to the hydraulic data of the individual pump.
The performance curves are based on kinematic viscosity values = 1 mm^2/s and density equal to 1000 kg/m^3. Curve tolerance according to ISO 9906.

MODEL			ELECTRICAL DATA					
	CENTRE DISTANCE	PUMP CONNECTIONS	POWER INPUT 50 Hz	P1 MAX kW	P2 NOMINAL		I MAX [A]	
					kW	HP	230 V	400 V
DKLPE 80-2000 T IE3	360	DN 80 PN 16	400 V	5	3,6	4,83	-	8,4

MODEL	A	B	B1	B2	C	D	D1	D2	D3	D4	H	H1	I	L	L1	L2	M	DNA	DNM	PACKING DIMENSIONS		
																				L/A	L/B	H
DKLPE 80-2000 T IE3	352	567	238	241	150	128	150	160	200	4 HOLES 18x23	713	97	240	360	160	200	4 HOLES M14	80	80	726	626	844

Via Marco Polo, 14 - 35035 Mestrino (PD) Italy - Tel. +39.049.5125000 - Fax +39.049.5125950
www.dabpumps.com

DAB PUMPS SELECTOR

On-line selection tool

DAB PUMPS LTD.
Unit 6 Gilberd Court
Newcomen Way, Severalls Park
CO4 9WN
Colchester
ordersuk@dwtgroup.com
Tel. +44 0333 777 5010

DAB PUMPS IBERICA S.L.
Calle Verano 18-20-22
28850 - Torrejón de Ardoz - Madrid
Spain
Info.spain@dwtgroup.com
Tel. +34 91 6569545

DAB PUMPS DE MÉXICO, S.A. DE C.V.
Av Amsterdam 101 Local 4
Col. Hipódromo Condesa,
Del. Cuauhtémoc CP 06170
Ciudad de México
Tel. +52 55 6719 0493

DAB PUMPS BV
'tHofveld 6 C1
1702 Groot Bijgaarden - Belgium
info.belgium@dwtgroup.com
Tel. +32 2 4668353

DAB PUMPS HUNGARY KFT.
H-8800
Nagykanizsa, Buda Ernő u.5
Hungary
Tel. +36 93501700

DAB PUMPS SOUTH AFRICA (PTY) LTD
Twenty One industrial Estate,
16 Purlin Street, Unit B, Warehouse 4
Olifantsfontein -1667 - South Africa
info.sa@dwtgroup.com
Tel. +27 12 361 3997

DAB PUMPS B.V.
Statenlaan, 4
5223 LA, 's-Hertogenbosch
Nederland
info.nl@dabpumps.com
Tel. +31 416 387280

DAB PUMPS POLAND Sp. z o.o.
Ul. Janka Muzykanta 60
02188 Warszawa - Poland
sprzedaz@dabpumps.com.pl

DAB PUMPS (QINGDAO) CO. LTD.
No.10 Xindong Road
Jiulong Town,
Jiaozhou City
266319 Qingdao (Shandong) - China
sales.cn@dwtgroup.com
Tel. +86 400 186 8280

DAB PUMPS FRANCE SAS
Tour Ariane, Paris la Défense 9
5, Place de la Pyramide
92800 Puteaux - France
info.fr@dabpumps.com
Tel. +33 (0)6 79 63 05 46
+33 (0)7 89 01 53 35

DAB PUMPS INC.
3226 Benchmark Drive
Ladson, SC 29456 - USA
info.usa@dwtgroup.com
Tel. 1- 843-797-5002
Fax 1-843-797-3366

DAB PUMPS OCEANIA PTY LTD
426 South Gippsland Highway,
Dandenong South VIC 3175 – Australia
info.oceania@dwtgroup.com
Tel. +61 1300 378 677

DAB PUMPS GMBH
Am Nordpark 3
D - 41069 Mönchengladbach - Germany
info.germany@dwtgroup.com
Tel. +49 2161 47388-0
Fax +49 2161 47388-36

DAB PUMPS CANADA INC.
333 Bay Street, Suite 4600, Toronto,
Ontario, M5H 2S5, - Canada
orders@dwtgroup.ca
Tel. 1-833-322-7867

PT DAB PUMPS INDONESIA
Satrio Tower lantai 26
unit C-D, Jl. Prof. Dr. Satrio Kav. C4,
Kel. Kuningan Timur, Kec. Setiabudi, Kota Adm.
Jakarta Selatan, Prov. DKI Jakarta. - Indonesia
Tel. +62 2129222850

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