

LAIKO



ALD(S)

**VERTICAL MULTI-STAGE
CENTRIFUGAL PUMP SERIES**

LAIKO

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VERTICAL MULTI-STAGE CENTRIFUGAL PUMP SERIES

PUMP AND SYSTEM SOLUTION PROVIDER



Superior in Pump, Superior in Energy-Saving.

www.Laikopump.com



LAIKO Laiko Pump Pump and System Solution Provider

LAIKO Pump(Zhejiang) Co., Ltd. is a subsidiary of Zhejiang Dayuan Pumps Industrial Co., Ltd. (Stock code: 603757), focusing on the research and manufacturing of energy-saving pumps.

LAIKO's applications cover the fields of construction, municipal, and industrial sectors. Currently, we have product lines including Inline Multistage Pumps, Inline Circulation Pumps, Horizontal Multistage Pumps, Cold and Hot Water Circulation Pipeline Pumps, Single-Stage Centrifugal Pumps, Standard Centrifugal Pumps, Stainless steel Horizontal Single-Stage Centrifugal Pumps, Submersible Sewage Pumps, and Immersed Multistage Centrifugal Pumps. Our products are exported to many countries and regions in Europe, America, and Asia, meeting local legal requirements and obtaining recognition from clients.

A standard research and development, production, sales, and service system has laid the core competitiveness and sustainable development space for LAIKO. Reliable product quality and thoughtful after-sales service have earned LAIKO widespread reputation.

LAIKO maintains a pioneering spirit, always adheres to the concept of technological innovation, and never stops exploring energy-saving endeavors!

Research and manufacturing of energy-saving pumps, providing pump and system solutions

With over 34 years of accumulated strength, we have formed an alliance with top domestic water pump research and development, production, sales, and technical teams, Established Zhejiang Laiko Pump Industry Co., Ltd. (referred to as Zhejiang Leike), with comprehensive strength ranking among the top in the industry.

The second-generation green intelligent factory of Industry 4.0 standard covers an area of nearly 200 acres, with an annual output of over 7 million units and a total investment of over 1 billion yuan.

Zhejiang Laiko has established a comprehensive sales and service network nationwide, with direct offices in major cities. Our products are exported to multiple countries and regions in Europe, America, and Asia. China Laiko pumps globally.



Wenling, Zhejiang, China

GREEN SMART FACTORY

Dayuan Pump Group and its subsidiary Laiko Pump Industry have implemented a significant strategic layout. Covering an area of nearly 200 acres with a total investment of approximately 1 billion RMB, the facility has an annual production capacity of 7 million units. It is a modern integrated factory that combines production, research and development, manufacturing, and logistics.



R&D STRENGTH

346	29	242	75	6
Domestic patents	Invention Patent	New utility patent	Appearance patent	Overseas patents

As a brand under Dayuan Pump Group, we have a strong foundation with over 177 R&D personnel and more than 352 patents. Our products have been honored with titles such as "Zhejiang Famous Brand Product" and "Zhejiang Export Famous Brand," and are exported to multiple countries and regions across Europe, America, and Asia. Our comprehensive strength ranks among the top in the industry. Through years of continuous investment in research and development, we have established a significant technological innovation advantage.

SERVICE COOPERATION

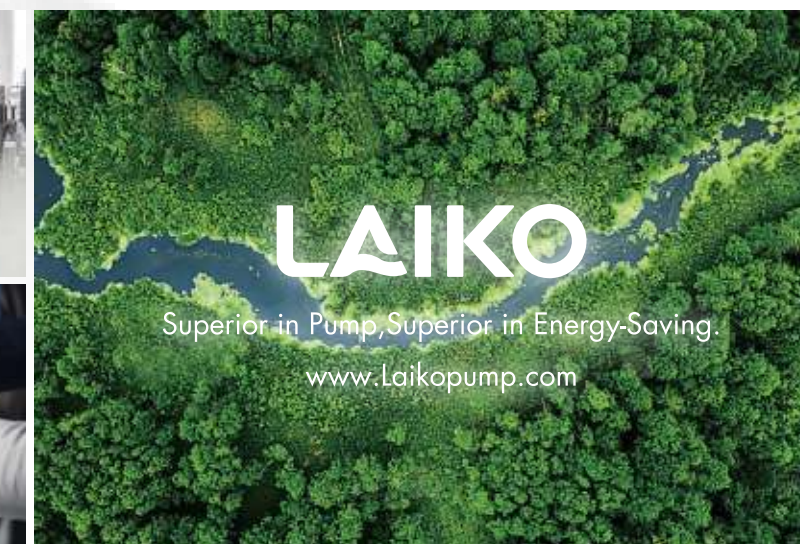
We have established offices in major cities across the country, supported by a professional and efficient service team. From consultation, purchase, after-sales, to maintenance, we provide high-quality, professional, timely, and attentive services at every stage.

Guided by the principle of "wholehearted dedication and customer-first," we respond quickly to customer needs, offering precise product recommendations and tailored solutions. Our comprehensive and full-cycle services ensure a worry-free experience for our customers.

SERVICE TENET: With all our heart and soul, Putting customers first

SERVICE TENET: Rapid response, Precise solution

SERVICE OBJECTIVES: Efficient O&M, Win-Win Cooperation



LAIKO

ALD / ALDS

Vertical Multi-Stage Centrifugal Pump Series



Superior in Pump, Superior in Energy-Saving.
www.laikopump.com

LAIKO Laiko Pump (Zhejiang) Co., Ltd.

ALD/ALDS

Vertical Multi-Stage Centrifugal Pump Series

The ALD/ALDS series is a high-efficiency non self suction vertical multi-stage centrifugal pump (hereinafter referred to as the pump), which has the characteristics of energy saving, low noise, environmental protection, compact structure, beautiful appearance, light weight, easy use and maintenance, and high reliability. The key overcurrent components are made using processes such as stainless steel stamping, precision laser welding, and stainless steel precision casting.

Low viscosity, non flammable and non explosive liquid that is prone to vaporization, and does not contain solid particles or fibers (ALD is suitable for non corrosive liquids, while ALDS is suitable for mildly corrosive liquids.). The liquid should not have a chemical reaction with the pump material. When the density and viscosity of the conveyed liquid are greater than water, a high-power motor is required. For more details, please consult our company.

LIQUID TEMPERATURE:

Room Temperature Type: -20 °C~+70 °C

Hot Water Type: -20 °C~+120 °C

Medium pH Value: 3~9 Maximum ambient Temperature: +40 °C

Highest Altitude: 1000m

APPLICATION FIELD

Water Supply
Engineering Pressurization
Water Treatment
Irrigation
Food and Beverage
Pharmaceutical Industry

TECHNICAL DATA

Flow Range: 0.4~240m³/h

Head Range: 4~269m

Power Range: 0.37~110kW

Maximum Work Pressure: 33bar

Application Environment

ALD/ALDS series vertical multi-stage centrifugal pumps are suitable for conveying low viscosity, non-flammable, non-explosive,-vaporizable liquids without solid particles and fibers.

Water supply: high-rise building water supply and drainage, water plant filtration and transportation, pipeline pressure increase, etc.

Engineering pressure boosting: flushing and cleaning systems, boiler feedwater, cooling water circulation, etc. equipment matching systems

Water treatment: ultrafiltration systems, osmosis systems, distillation systems, separators, swimming pools, etc. water treatment systems

Irrigation: sprinkler irrigation, drip irrigation, etc. in agriculture

Others: food and beverage, pharmaceutical industry, etc.

Motor

Fully enclosed standard air-cooled two-pole standard motor

Protection level: IP55

Insulation level: F

Operating Conditions

Low viscosity, non-flammable, non-explosive, non-vaporizable liquids without solid particles and fibers and the liquid should not have a chemical reaction with the pump material. When the density and viscosity of the conveyed liquid are greater than water, a high-power motor is required. For more details, consult us please.

Liquid temperature: common temperature type: -20°C~+70°C

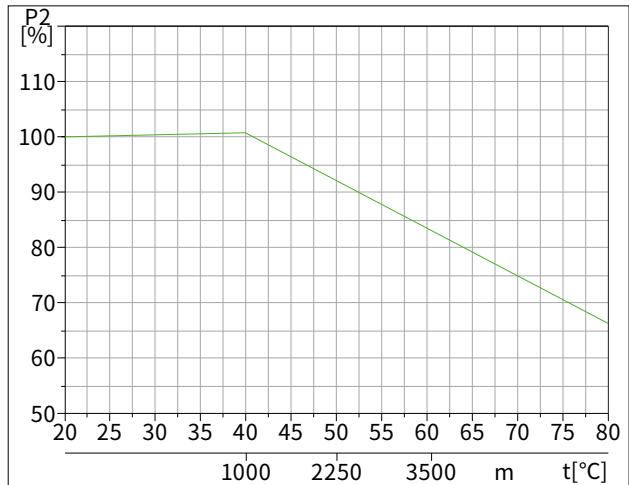
hot water type: -20°C~+120°C

Medium pH value: 3~9

Maximum ambient temperature: +40°C

Maximum altitude: 1000m

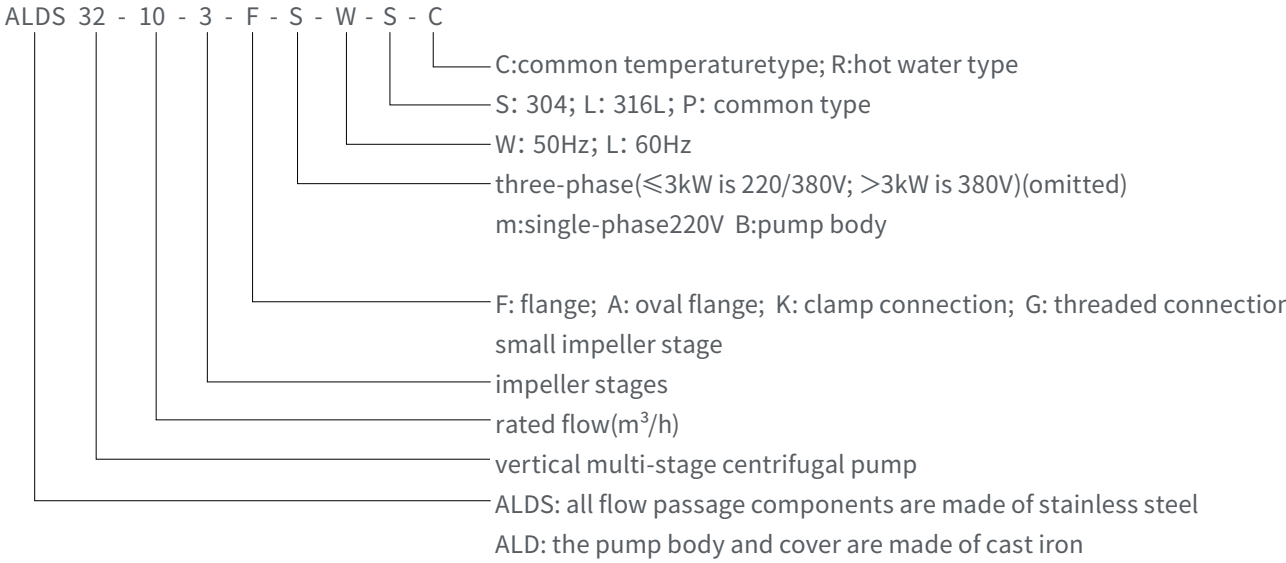
Ambient Temperature Effect



The highest motor environment is +40°C. When the ambient temperature of the motor exceeds 40°C or is installed above 1000 meters above sea level, the rated output power (P2) of the motor will decrease due to the poor cooling effect due to the low air density as shown in the figure. And a higher output power motor is required. For more details, consult us please.

As shown in the figure, P2 drops to 88% when the pump is installed above 3500 m and to 78% when the ambient temperature reaches 70°C.

Model Description



最小入口压力 Minimum Inlet Pressure-NPSH

When the following conditions exist, it's recommended to calculate the inlet pressure "H": The liquid temperature is high; The flow rate is significantly greater than the rated flow; Pumping water from a lower level; Pumping water a long pipeline; Poor water inlet conditions.

T to avoid cavitation, a minimum pressure must be ensured on the pump suction side. The maximum suction lift "H" can be calculated according to the following formula:

$$H = P_b \times 10.2 - NPSH - H_f - H_v - H_s$$

P_b =atmospheric pressure, unit in bar (atmospheric pressure is considered as 1 bar). In a closed system, P_b represents the system pressure(unit in bar).

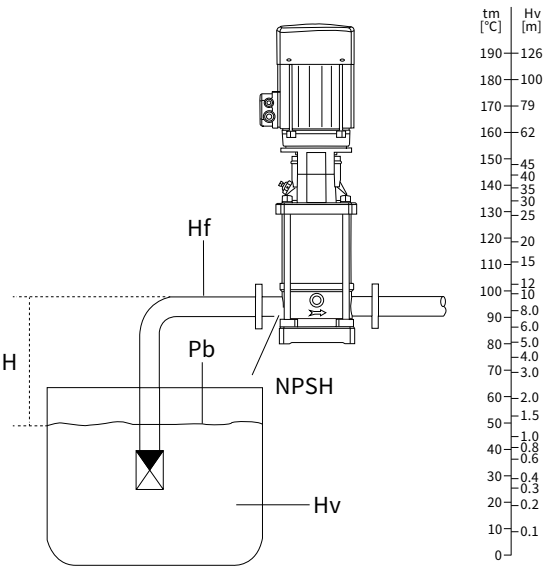
$NPSH$ =Net Positive Suction Head, unit in meter(read from the NPSH performance curve).

H_f =suction pipe resistance loss, unit in meter (at the pump's maximum flow rate).

H_v =vaporization pressure, unit in meter (read from the vaporization pressure scale. Its value depends on the liquid temperature "tm").

H_s =safety margin, minimum value is 0.5m.

If "H" is calculated as a positive value, the pump can operate with a maximum suction lift of "H".
If "H" is calculated a negative value, the pump requires a minimum "H" suction pressure.suction lift of "H".



Note: To avoid cavitation, never select a pump with a duty point too far to the right on the NPSH curve. Always check the NPSH value of the pump at the highest possible flow.

Maximum Working Pressure

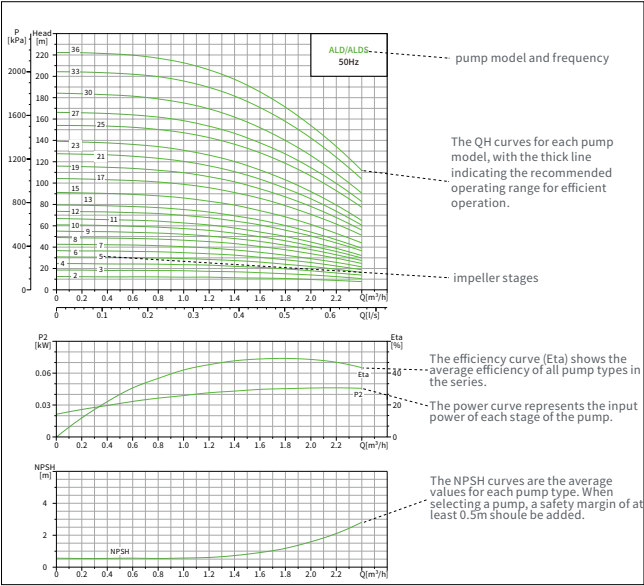
The table below shows the maximum working pressure of the pump. Then, the existing inlet pressure pump's closed valve pressure must always be lower than the pump's maximum working pressure.
If the pump's maximum working pressure is exceeded, the bearings in the motor may be damaged and the life of the shaft seal will be shortened.

Model	Maximum Working Pressure
ALD/ALDS1,2,3,4,5,8,10,12,15,20 flange/ clamp connection/ threaded connection	25
ALD/ALDS1,2,3,4,5 oval flange	16
ALD/ALDS32	
ALD32-1-1→32-8	16
ALDS32-9-2→32-16	30
ALDS32	30
ALD/ALDS45	
ALD45-1-1→45-5	16
ALD45-6-2→45-9	25
ALD45-10-2→45-11	30
ALD45-12-2→45-13-2	33
ALDS45	
ALDS45-1-1→45-10-2	25
ALDS45-10→45-13-2	33
ALD/ALDS64	
ALD64-1-1→64-5-2	16
ALD64-5-1→64-8-1	25
ALDS64	25
ALD/ALDS90	
ALD90-1-1→90-4-2	16
ALD90-4→90-6	25
ALDS90	25
ALD/ALDS120/150/200	20

Note: If the pressure range is beyond the above, consult us please.

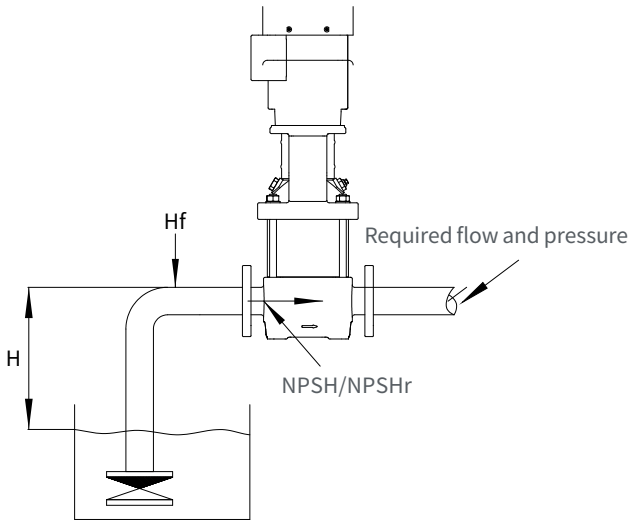
Performance Curve Description

The tolerance of the curve complies with ISO9906:2012.
The medium is air-free water at 20°C with kinematic viscosity $V=1\text{mm}^2/\text{s}$.
To prevent the motor from overheating or overloading, the pump should be used within the range of the bold curve.



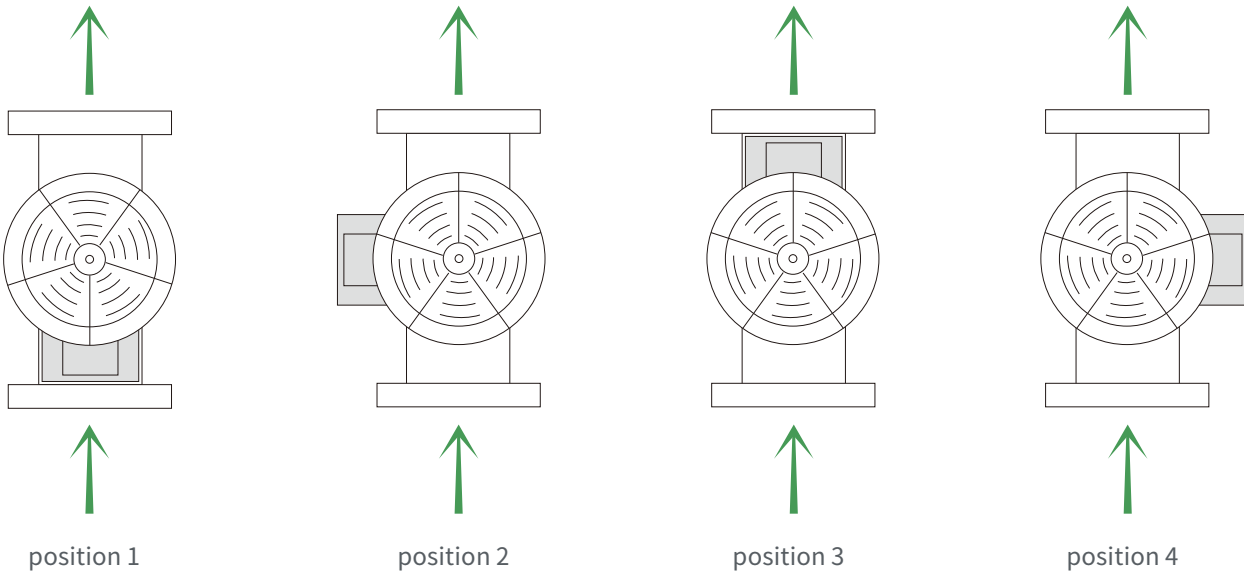
Selection Data

When selecting the size of a pump, the following parameters should be considered:
The flow and pressure required at the point of delivery.
Pressure losses due to the height difference (H).
Friction losses in the piping (Hf), which may involve pressure losses due to long piping, bends valves, or similar structures.
The best efficiency at the estimated operating point.
The NPSH value. For calculations of the NPSH value, to the section on Minimum Inlet Pressure NPSH.



Junction Box Location

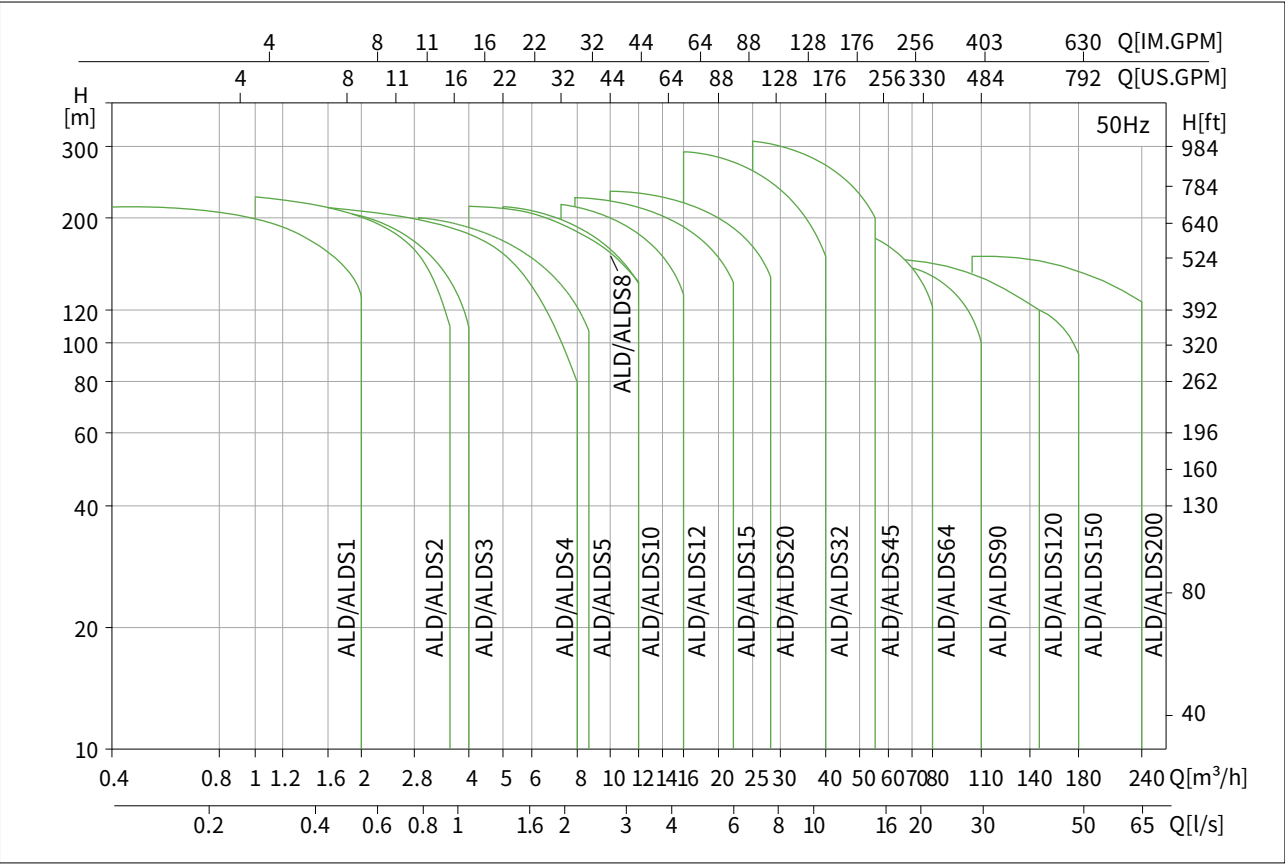
Note: the factory standard is position 3.



Product Scope

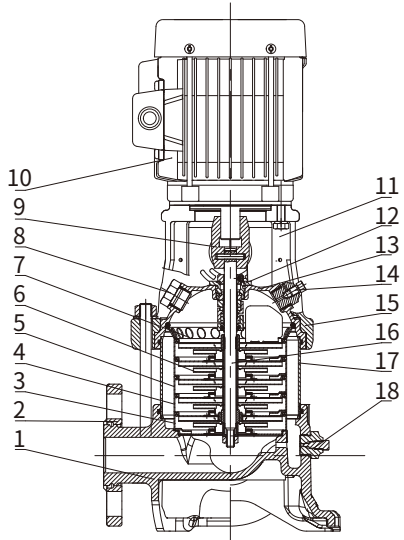
Model	ALD1	ALD2	ALD3	ALD4	ALD5	ALD8	ALD10	ALD12	ALD15	ALD20	ALD32	ALD45	ALD64	ALD90	ALD120	ALD150	ALD200
Description	ALDS1	ALDS2	ALDS3	ALDS4	ALDS5	ALDS8	ALDS10	ALDS12	ALDS15	ALDS20	ALDS32	ALDS45	ALDS64	ALDS90	ALDS120	ALDS150	ALDS200
rated flow[m³/h]	1	2	3	4	5	8	10	12	15	20	32	45	64	90	120	150	200
flow range[m³/h]	0.4-2.0	0.9-3.4	1.2-4.4	1.6-8.2	2.3-8.4	4-12	5-14	6-16	8-23.5	10-29	15-40	25-55	30-80	50-110	60-150	80-180	100-240
maximum pressure[bar]	22	23	24	21	24	21	24	24	3	25	28	32	22	20	20	20	20
motor power[kW]	0.37-2.2	0.37-3	0.37-3	0.37-4	0.37-4	0.37-7.5	0.75-11	1.5-11	1.1-15	1.1-18.5	1.5-30	3-45	4-45	5.5-45	11-75	11-75	18.5-110
temperature range[°C]	-20°C~+120°C Note: the maximum allowable working pressure and liquid temperature range refer to the pump's own tolerance																
highest efficiency[%]	45	46	55	59	60	68	72	63	70	75	74	78	76	77	74	73	79
ALD pipeline connection																	
oval flange	G1	G1	G1	G1 1/4	G1 1/4	/	/	/	/	/	/	/	/	/	/	/	/
DIN flange	DN25	DN25	DN25	DN32	DN32	DN40	DN40	DN50	DN50	DN50	DN65	DN80	DN100	DN100	DN125	DN125	DN150
ALDS pipeline connection																	
DIN flange	DN25	DN25	DN25	DN32	DN32	DN40	DN40	DN50	DN50	DN50	DN65	DN80	DN100	DN100	DN125	DN125	DN150
clamp connection	φ42	φ42	φ42	φ42	φ42	/	/	/	/	/	/	/	/	/	/	/	/
threaded connection	G1 1/4	G1 1/4	G1 1/4	G1 1/4	G1 1/4	/	/	/	/	/	/	/	/	/	/	/	/

Application Scope



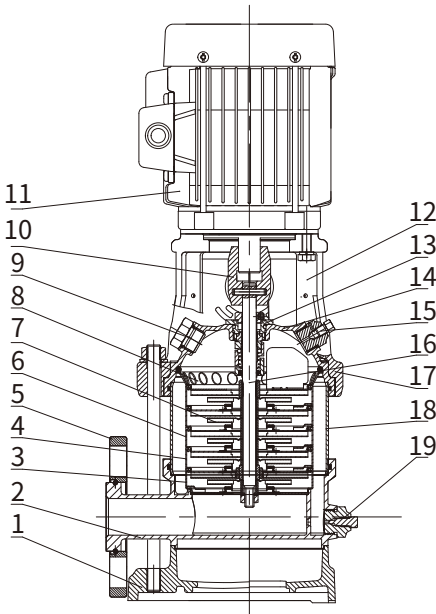
Structure Diagram

ALD1、2、3、4、5



序号 No.	零件 Parts	材料 Materials	GB	AISI/ASTM
1	泵体 Pump body	铸铁Cast iron	GB/T 9439-HT200	ASTM25B
2	法兰 Flange	球墨铸铁Nodular cast iron	GB/T 1348-QT450-10	ASTM A536 60-40-18
3	首级导流体 First diffuser	不锈钢Stainless steel	GB/T20878-06Cr19Ni10	AISI304
4	带轴承导流体 Diffuser with bearing	不锈钢Stainless steel	GB/T20878-06Cr19Ni10	AISI304
5	中导流体 Medium diffuser	不锈钢Stainless steel	GB/T20878-06Cr19Ni10	AISI304
6	叶轮 Impeller	不锈钢Stainless steel	GB/T20878-06Cr19Ni10	AISI304
7	末级导流体 Final diffuser	不锈钢Stainless steel	GB/T20878-06Cr19Ni10	AISI304
8	注水螺塞 Filling plug	不锈钢Stainless steel	GB/T20878-06Cr19Ni10	AISI304
9	半联轴器 Half-coupling	铁基粉末冶金 Iron-based powder metallurgy	/	/
10	电机 Motor	/	/	/
11	护板 Guarding plate	不锈钢Stainless steel	GB/T20878-06Cr19Ni10	AISI304
12	机械密封 Mechanical seal	/	/	/
13	泵盖 Pump cover	铸铁Cast iron	GB/T 9439-HT200	ASTM25B
14	放水螺塞组件 Vent plug assembly	不锈钢Stainless steel	GB/T20878-06Cr19Ni10	AISI304
15	电机座 Motor base	铸铁Cast iron	GB/T 9439-HT200	ASTM25B
16	泵轴 Pump shaft	不锈钢Stainless steel	GB/T20878-06Cr19Ni10	AISI304
17	泵筒 Pump barrel	不锈钢Stainless steel	GB/T20878-06Cr19Ni10	AISI304
18	放水螺塞组件 Discharge bolt assembly	不锈钢Stainless steel	GB/T20878-06Cr19Ni10	AISI304

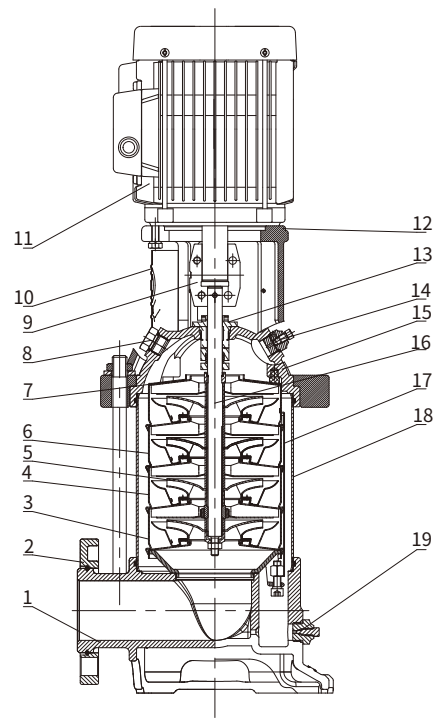
ALDS1、2、3、4、5



序号 No.	零件 Parts	材料 Materials	GB	AISI/ASTM
1	泵座 Pump base	铸铁Cast iron	GB/T 9439-HT200	ASTM25B
2	泵体 Pump body	不锈钢Stainless steel	GB/T20878-06Cr19Ni10	AISI304
3	首级导流体 First diffuser	不锈钢Stainless steel	GB/T20878-06Cr19Ni10	AISI304
4	带轴承导流体 Diffuser with bearing	不锈钢Stainless steel	GB/T20878-06Cr19Ni10	AISI304
5	法兰 Flange	球墨铸铁Nodular cast iron	GB/T 1348-QT450-10	ASTM A536 60-40-18
6	中导流体 Medium diffuser	不锈钢Stainless steel	GB/T20878-06Cr19Ni10	AISI304
7	叶轮 Impeller	不锈钢Stainless steel	GB/T20878-06Cr19Ni10	AISI304
8	末级导流体 Final diffuser	不锈钢Stainless steel	GB/T20878-06Cr19Ni10	AISI304
9	注水螺塞 Filling plug	不锈钢Stainless steel	GB/T20878-06Cr19Ni10	AISI304
10	半联轴器 Half-coupling	铁基粉末冶金 Iron-based powder metallurgy	/	/
11	电机 Motor	/	/	/
12	护板 Guarding plate	不锈钢Stainless steel	GB/T20878-06Cr19Ni10	AISI304
13	机械密封 Mechanical seal	/	/	/
14	泵盖 Pump cover	不锈钢Stainless steel	GB/T20878-06Cr19Ni10	AISI304
15	放水螺塞组件 Vent plug assembly	不锈钢Stainless steel	GB/T20878-06Cr19Ni10	AISI304
16	泵轴 Pump shaft	不锈钢Stainless steel	GB/T20878-06Cr19Ni10	AISI304
17	电机座 Motor base	铸铁Cast iron	GB/T 9439-HT200	ASTM25B
18	泵筒 Pump barrel	不锈钢Stainless steel	GB/T20878-06Cr19Ni10	AISI304
19	放水螺塞组件 Discharge bolt assembly	不锈钢Stainless steel	GB/T20878-06Cr19Ni10	AISI304

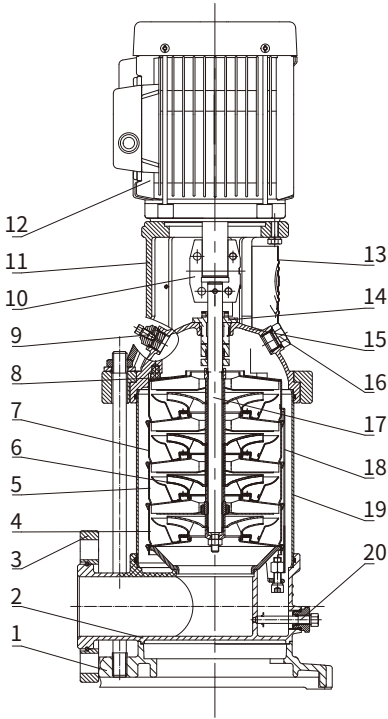
Structure Diagram

ALD8、10、12、15、20



No.	Parts	Materials	GB	AISI/ASTM
1	Pump body	Cast iron	GB/T 9439-HT200	ASTM25B
2	Flange	Nodular cast iron	GB/T1348-QT450-10	ASTM A536 60-40-18
3	First diffuser	Stainless steel	GB/T20878-06Cr19Ni10	AISI304
4	Diffuser with bearing	Stainless steel	GB/T20878-06Cr19Ni10	AISI304
5	Impeller	Stainless steel	GB/T20878-06Cr19Ni10	AISI304
6	Medium diffuser	Stainless steel	GB/T20878-06Cr19Ni10	AISI304
7	Final diffuser	Stainless steel	GB/T20878-06Cr19Ni10	AISI304
8	Filling plug	Stainless steel	GB/T20878-06Cr19Ni10	AISI304
9	Half-coupling	Iron-based powder metallurgy	/	/
10	Guarding plate	Stainless steel	GB/T20878-06Cr19Ni10	AISI304
11	Motor	/	/	/
12	Motor base	Cast iron	GB/T 9439-HT200	ASTM25B
13	Mechanical seal	/	/	/
14	Vent plug assembly	Stainless steel	GB/T20878-06Cr19Ni10	AISI304
15	Pump cover	Cast iron	GB/T 9439-HT200	ASTM25B
16	Pump shaft	Stainless steel	GB/T20878-06Cr19Ni10	AISI304
17	Tightening strap	Stainless steel	GB/T20878-06Cr19Ni10	AISI304
18	Pump barrel	Stainless steel	GB/T20878-06Cr19Ni10	AISI304
19	Discharge bolt assembly	Stainless steel	GB/T20878-06Cr19Ni10	AISI304

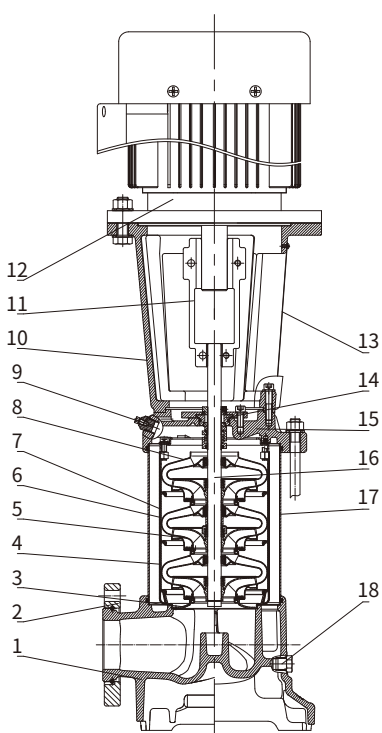
ALDS8、10、12、15、20



No.	Parts	Materials	GB	AISI/ASTM
1	Pump base	Cast iron	GB/T 9439-HT200	ASTM25B
2	Pump body	Stainless steel	GB/T20878-06Cr19Ni10	AISI304
3	Flange	Nodular cast iron	GB/T1348-QT450-10	ASTM A536 60-40-18
4	First diffuser	Stainless steel	GB/T20878-06Cr19Ni10	AISI304
5	Diffuser with bearing	Stainless steel	GB/T20878-06Cr19Ni10	AISI304
6	Impeller	Stainless steel	GB/T20878-06Cr19Ni10	AISI304
7	Medium diffuser	Stainless steel	GB/T20878-06Cr19Ni10	AISI304
8	Final diffuser	Stainless steel	GB/T20878-06Cr19Ni10	AISI304
9	Filling plug	Stainless steel	GB/T20878-06Cr19Ni10	AISI304
10	Half-coupling	Iron-based powder metallurgy	/	/
11	Motor base	Cast iron	GB/T 9439-HT200	ASTM25B
12	Motor	/	/	/
13	Guarding plate	Stainless steel	GB/T20878-06Cr19Ni10	AISI304
14	Mechanical seal	/	/	/
15	Pump cover	Cast iron	GB/T 9439-HT200	ASTM25B
16	Vent plug assembly	Stainless steel	GB/T20878-06Cr19Ni10	AISI304
17	Pump shaft	Stainless steel	GB/T20878-06Cr19Ni10	AISI304
18	Tightening strap	Stainless steel	GB/T20878-06Cr19Ni10	AISI304
19	Pump barrel	Stainless steel	GB/T20878-06Cr19Ni10	AISI304
20	Discharge bolt assembly	Stainless steel	GB/T20878-06Cr19Ni10	AISI304

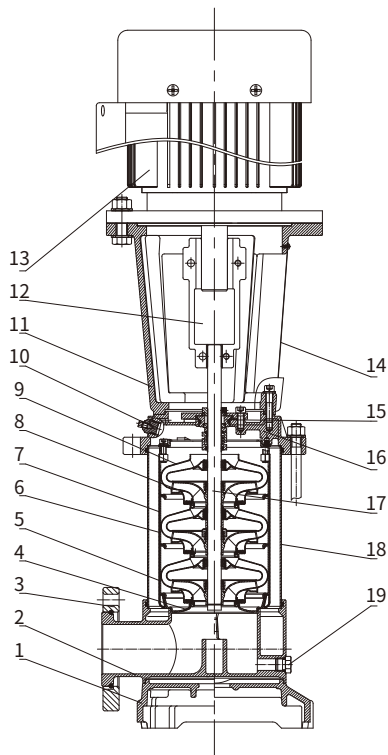
Structure Diagram

ALD32、45、64、90、120、150、200



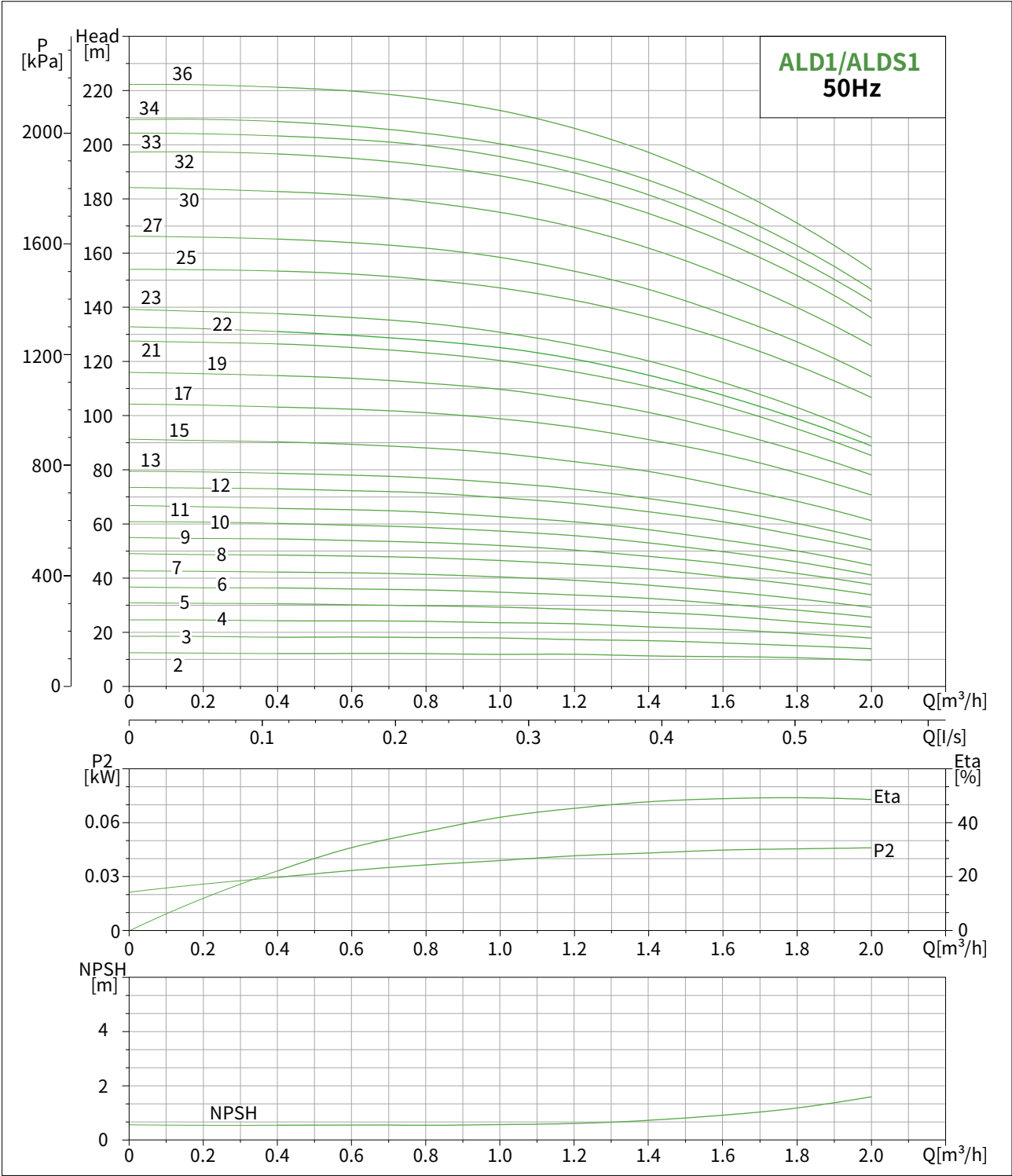
No.	Parts	Materials	GB	AISI/ASTM
1	Pump body	Cast iron	GB/T9439-HT200	ASTM25B
2	Flange	Nodular cast iron	GB/T1348-QT400-18	ASTM A536 60-40-18
3	First diffuser	Stainless steel	GB/T20878-06Cr19Ni10	AISI304
4	Diffuser with bearing	Stainless steel	GB/T20878-06Cr19Ni10	AISI304
5	Impeller	Stainless steel	GB/T20878-06Cr19Ni10	AISI304
6	Medium diffuser	Stainless steel	GB/T20878-06Cr19Ni10	AISI304
7	Tightening strap	Stainless steel	GB/T20878-06Cr19Ni10	AISI304
8	Final diffuser	Stainless steel	GB/T20878-06Cr19Ni10	AISI304
9	Vent plug assembly	Stainless steel	GB/T20878-06Cr19Ni10	AISI304
10	Motor base	Cast iron	GB/T9439-HT200	ASTM25B
11	Half-coupling	Nodular cast iron	GB/T1348-QT400-18	ASTM A536 60-40-18
12	Motor	/	/	/
13	Guarding Plate	Stainlesssteel	GB/T20878-06Cr19Ni10	AISI304
14	Mechanical seal	/	/	/
15	Pump cover	Cast iron	GB/T9439-HT200	ASTM25B
16	Pump shaft	Stainless steel	GB/T20878-06Cr19Ni10	AISI304
17	Pump barrel	Stainless steel	GB/T20878-06Cr19Ni10	AISI304
18	Discharge bolt assembly	Stainless steel	GB/T20878-06Cr19Ni10	AISI304

ALDS32、45、64、90、120、150、200



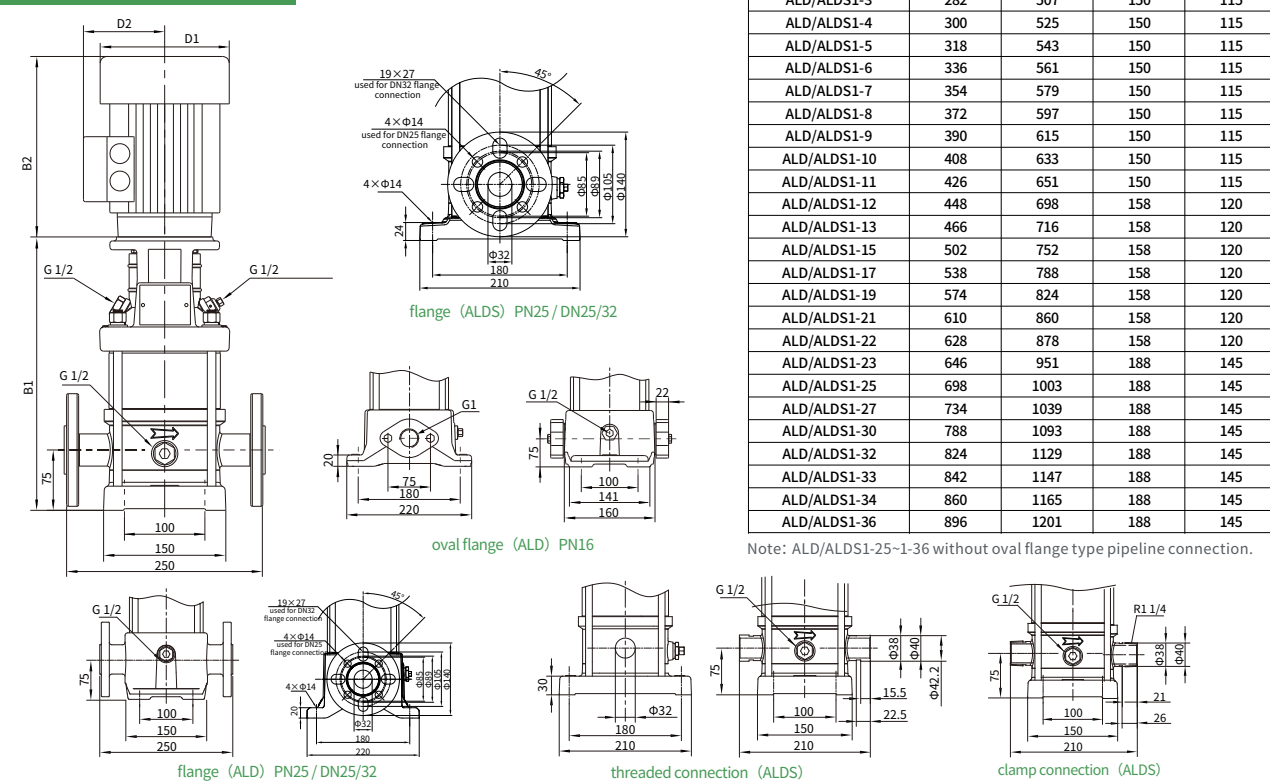
No.	Parts	Materials	GB	AISI/ASTM
1	Pump base	Cast iron	GB/T9439-HT200	ASTM25B
2	Pump body	Stainless steel	GB/T20878-06Cr19Ni10	AISI304
3	Flange	Nodular cast iron	GB/T1348-QT400-18	ASTM A536 60-40-18
4	First diffuser	Stainless steel	GB/T20878-06Cr19Ni10	AISI304
5	Diffuser with bearing	Stainless steel	GB/T20878-06Cr19Ni10	AISI304
6	Medium diffuser	Stainless steel	GB/T20878-06Cr19Ni10	AISI304
7	Tightening strap	Stainless steel	GB/T20878-06Cr19Ni10	AISI304
8	Impeller	Stainless steel	GB/T20878-06Cr19Ni10	AISI304
9	Final diffuser	Stainless steel	GB/T20878-06Cr19Ni10	AISI304
10	Vent plug assembly	Stainless steel	GB/T20878-06Cr19Ni10	AISI304
11	Motor base	Cast iron	GB/T9439-HT200	ASTM25B
12	Half-coupling	Nodular cast iron	GB/T1348-QT400-18	ASTM A536 60-40-18
13	Motor	/	/	/
14	Guarding Plate	Stainless steel	GB/T20878-06Cr19Ni10	AISI304
15	Mechanical seal	/	/	/
16	Pump cover	Stainless steel	GB/T20878-06Cr19Ni10	AISI304
17	Pump shaft	Stainless steel	GB/T20878-06Cr19Ni10	AISI304
18	Pump barrel	Stainless steel	GB/T20878-06Cr19Ni10	AISI304
19	Discharge bolt assembly	Stainless steel	GB/T20878-06Cr19Ni10	AISI304

ALD/ALDS1



ALD/ALDS1

Installation dimension

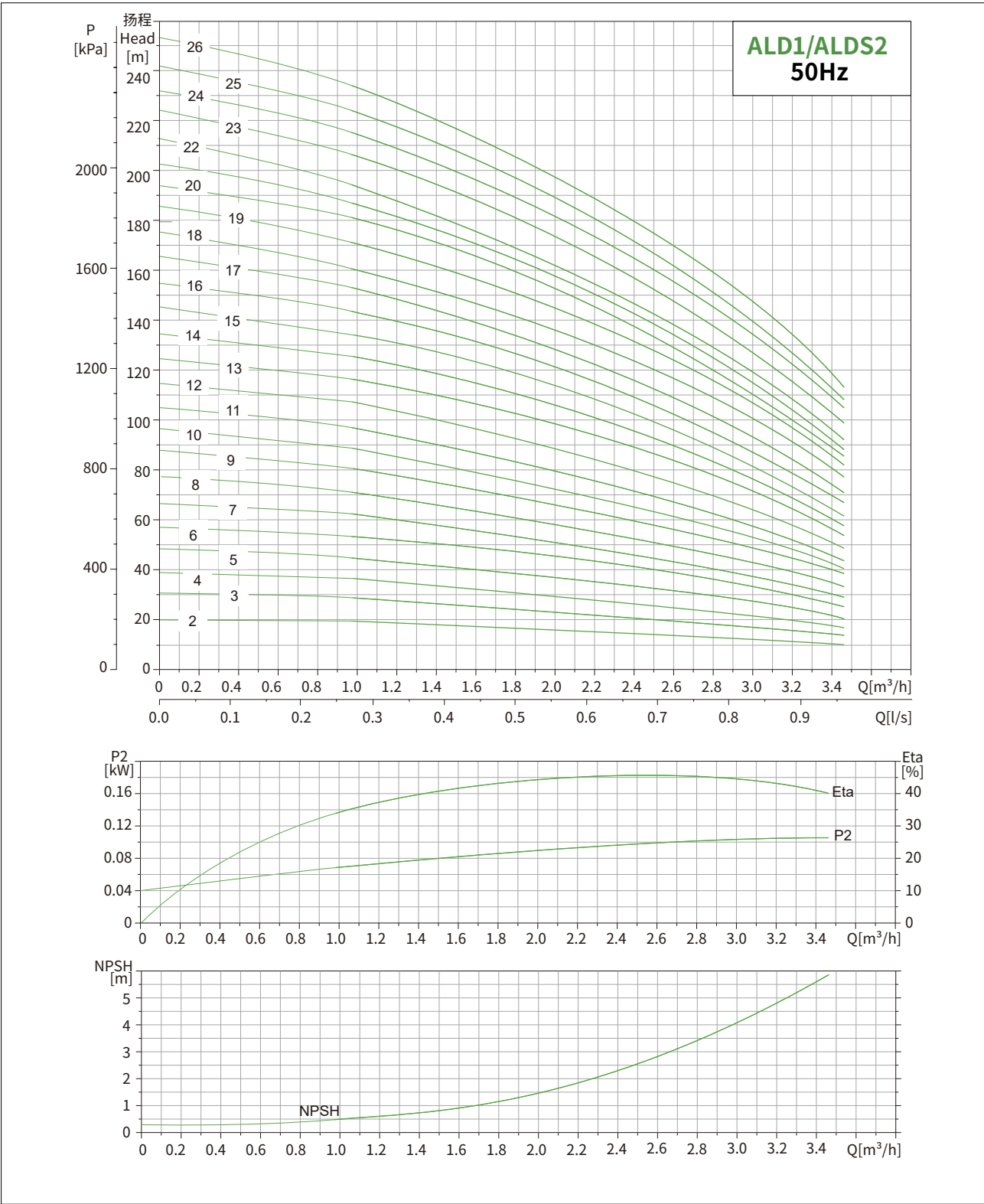


Model	Dimension(mm)			
	B1	B1+B2	D1	D2
ALD/ALDS1-2	282	507	150	115
ALD/ALDS1-3	282	507	150	115
ALD/ALDS1-4	300	525	150	115
ALD/ALDS1-5	318	543	150	115
ALD/ALDS1-6	336	561	150	115
ALD/ALDS1-7	354	579	150	115
ALD/ALDS1-8	372	597	150	115
ALD/ALDS1-9	390	615	150	115
ALD/ALDS1-10	408	633	150	115
ALD/ALDS1-11	426	651	150	115
ALD/ALDS1-12	448	698	158	120
ALD/ALDS1-13	466	716	158	120
ALD/ALDS1-15	502	752	158	120
ALD/ALDS1-17	538	788	158	120
ALD/ALDS1-19	574	824	158	120
ALD/ALDS1-21	610	860	158	120
ALD/ALDS1-22	628	878	158	120
ALD/ALDS1-23	646	951	188	145
ALD/ALDS1-25	698	1003	188	145
ALD/ALDS1-27	734	1039	188	145
ALD/ALDS1-30	788	1093	188	145
ALD/ALDS1-32	824	1129	188	145
ALD/ALDS1-33	842	1147	188	145
ALD/ALDS1-34	860	1165	188	145
ALD/ALDS1-36	896	1201	188	145

Note: ALD/ALDS1-25-1-36 without oval flange type pipeline connection.

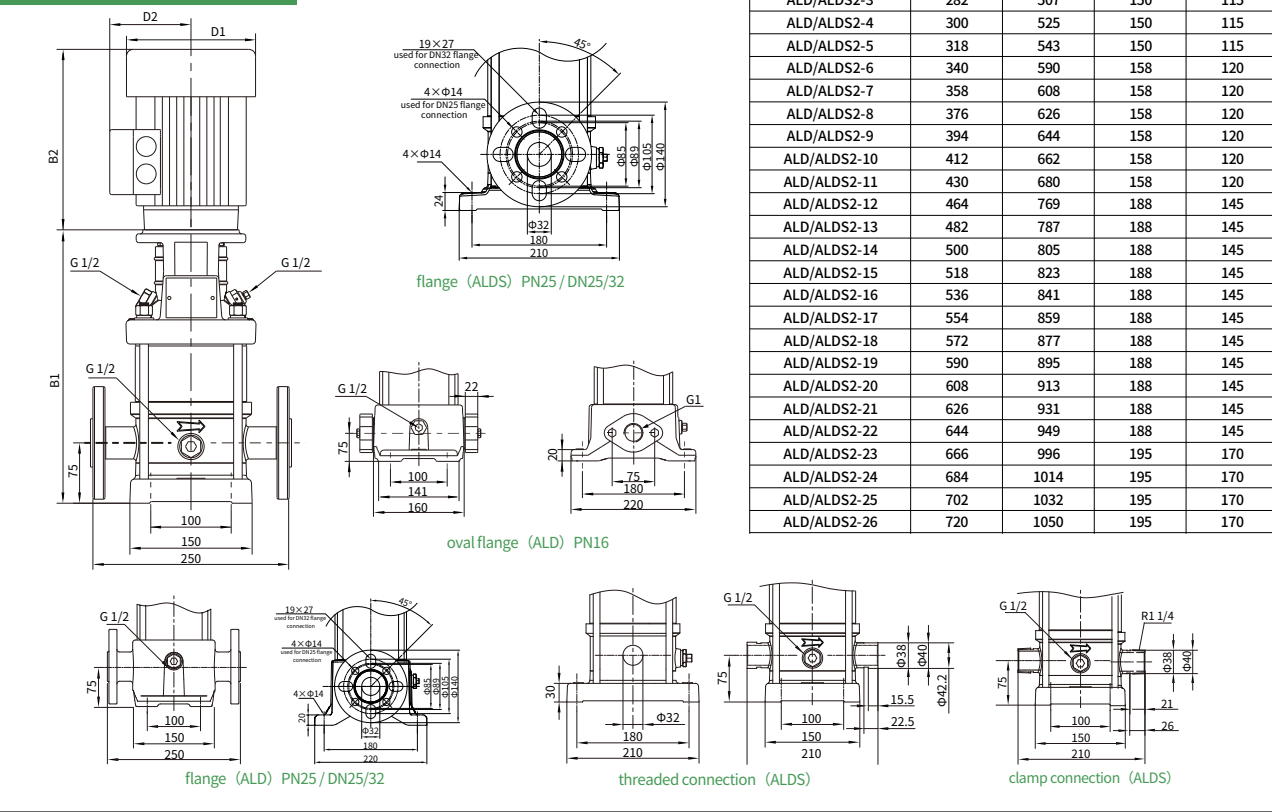
Model	Motor Power(kW)	Q[m³/h]	0.4	0.6	0.8	1	1.2	1.4	1.6	1.8	2
ALD/ALDS1-2	0.37	H(m)	12	11.7	11.4	11.2	11	10.8	10.5	10.3	9.7
ALD/ALDS1-3	0.37		18	17.6	17.2	16.8	16	15.5	15	14.5	14
ALD/ALDS1-4	0.37		24	23.5	23	22.5	22	21.5	21	19	18
ALD/ALDS1-5	0.37		30	29.5	29	28.5	28	27	26	24	22
ALD/ALDS1-6	0.37		36	35.5	35	34.5	34	32	30	28	25
ALD/ALDS1-7	0.37		42	41.5	41	40.5	39	37	35	32	30
ALD/ALDS1-8	0.55		48	47.5	47	46.5	45	43	40	38	34
ALD/ALDS1-9	0.55		54	53.5	53	52	50	48	45	42	47
ALD/ALDS1-10	0.55		60	59	58	57.5	55	53	50	46	41
ALD/ALDS1-11	0.55		65	64.5	64	63	61	58	54	51	45
ALD/ALDS1-12	0.75		73	72	71	70	67	64	61	56	50
ALD/ALDS1-13	0.75		78	77.5	77	75	73	69	65	60	54
ALD/ALDS1-15	0.75		90	89.5	88	86	83	79	74	68	61
ALD/ALDS1-17	1.1		103	102	101	98	95	91	85	78	70
ALD/ALDS1-19	1.1		115	114	112	110	106	101	94	87	78
ALD/ALDS1-21	1.1		126	125	123	120	116	110	103	95	85
ALD/ALDS1-22	1.1		131	130	128	124	121	115	107	99	88
ALD/ALDS1-23	1.5		137	136	134	130	126	120	112	103	92
ALD/ALDS1-25	1.5		153	152	150	145	142	136	128	119	106
ALD/ALDS1-27	1.5		165	164	162	157	153	146	137	128	114
ALD/ALDS1-30	1.5		182	181	178	173	169	162	152	140	126
ALD/ALDS1-32	2.2		197	196	193	188	183	176	165	153	138
ALD/ALDS1-33	2.2		203	202	199	194	189	181	170	158	142
ALD/ALDS1-34	2.2		209	208	205	198	195	186	175	161	145
ALD/ALDS1-36	2.2		221	220	217	210	206	197	185	170	154

ALD/ALDS2



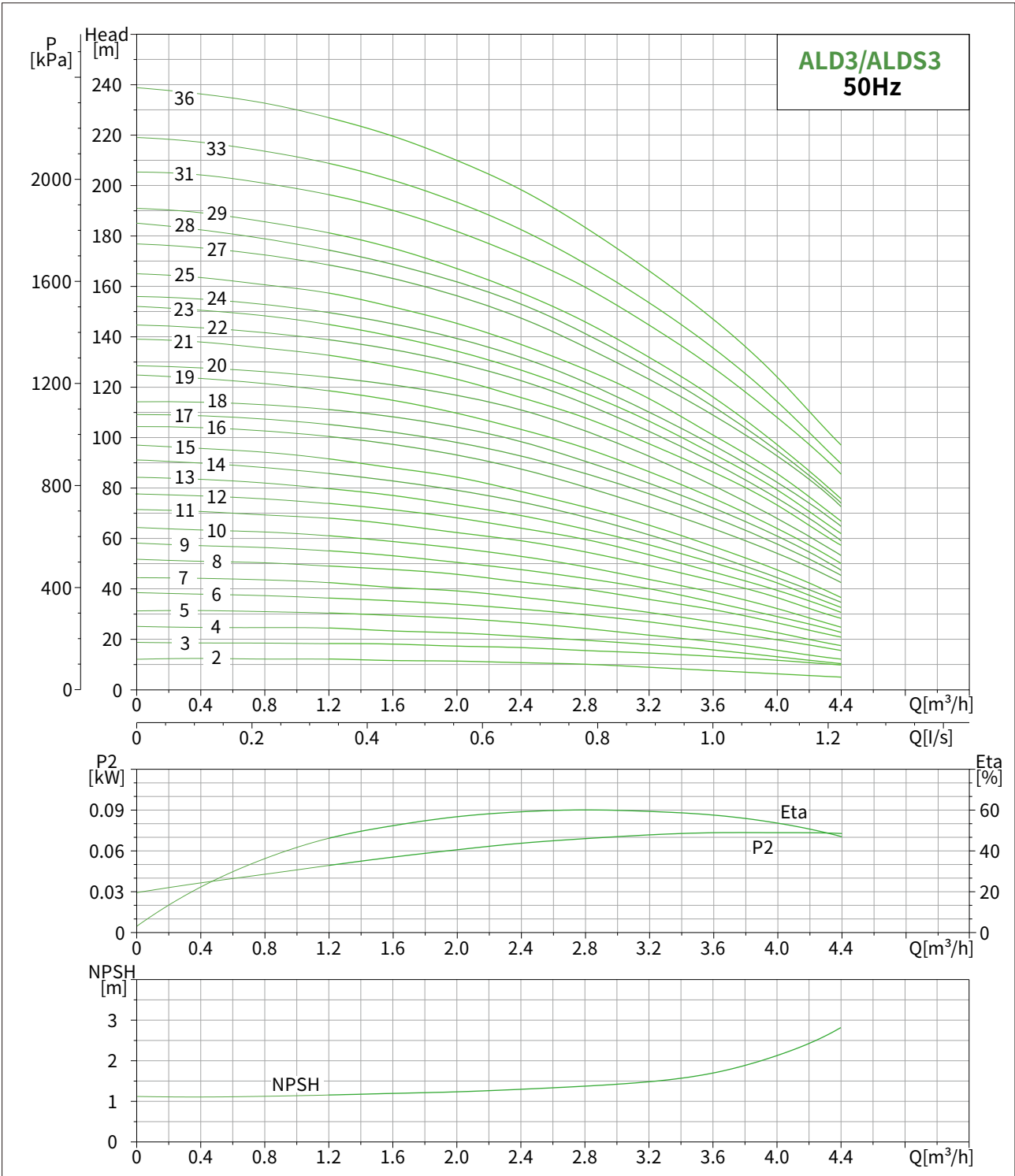
ALD/ALDS2

Installation dimension

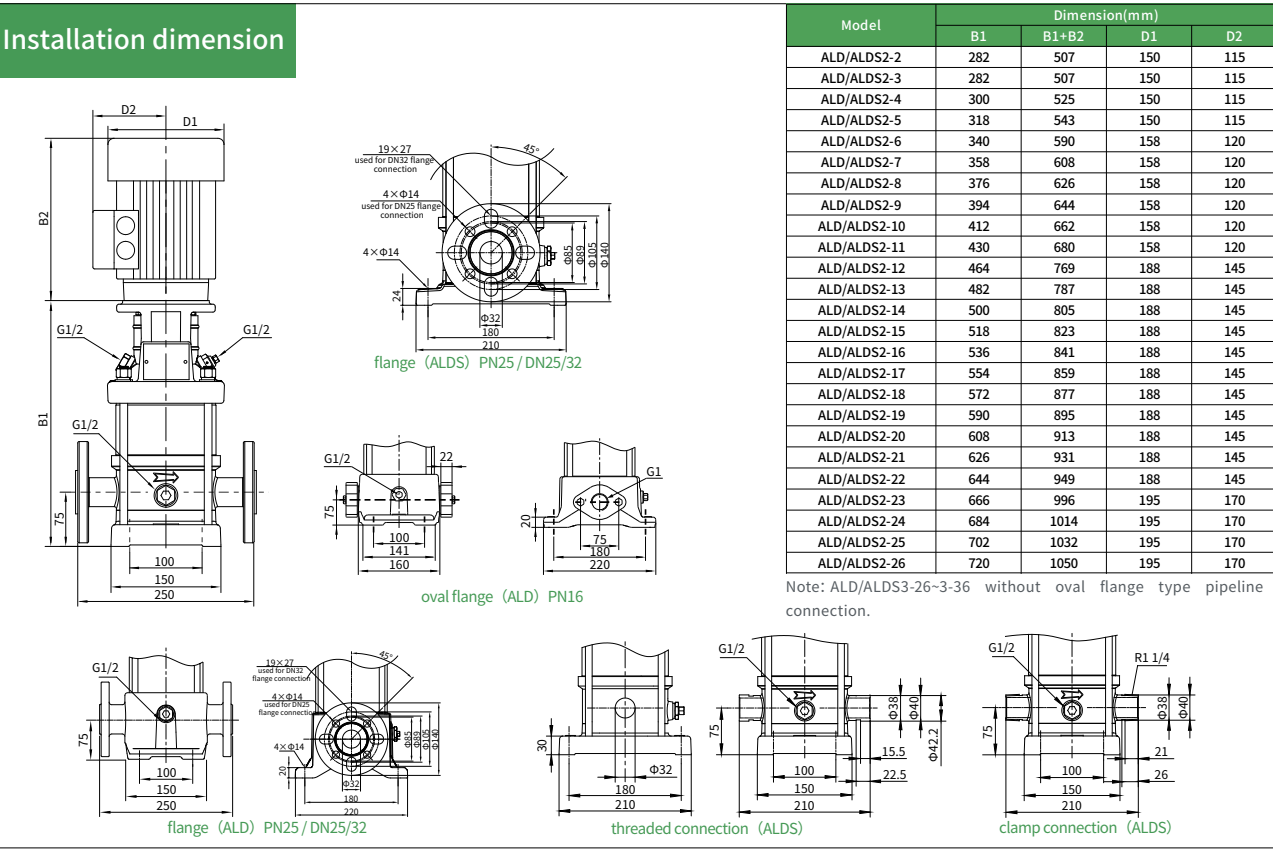


Model	Power (kW)	Q[m³/h]	1.0	1.2	1.6	2.0	2.5	2.8	3.2	3.5
ALD/ALDS2-2	0.37	H(m)	18	17	16	15.5	13.5	12	10	8
ALD/ALDS2-3	0.37		27	26	24	22.5	19.5	18	15	12
ALD/ALDS2-4	0.55		36	35	33	30.5	27	24	17	16
ALD/ALDS2-5	0.55		45	43	40	37	32.5	30	24	20
ALD/ALDS2-6	0.75		53	52	50	45.5	40	36	30	24
ALD/ALDS2-7	0.75		63	61	57	52	45.5	41	35	28
ALD/ALDS2-8	1.1		71	69	65	59	51	47	40	33
ALD/ALDS2-9	1.1		80	78	73	68.5	60	54	45	37
ALD/ALDS2-10	1.1		89	86	81	74	65	59	49	40
ALD/ALDS2-11	1.1		98	95	89	82	71.5	64	54	44
ALD/ALDS2-12	1.5		107	103	97	90	78	71	59	47
ALD/ALDS2-13	1.5		116	114	106	98	86.5	78	65	52
ALD/ALDS2-14	1.5		125	122	114	105	92	84	69	57
ALD/ALDS2-15	1.5		134	130	123	112	98	90	73	60
ALD/ALDS2-16	2.2		143	139	131	120	104	96	79	66
ALD/ALDS2-17	2.2		152	148	139	128	111	102	85	70
ALD/ALDS2-18	2.2		161	157	148	136	122	108	91	76
ALD/ALDS2-19	2.2		170	165	156	143	128	113	95	81
ALD/ALDS2-20	2.2		179	174	164	150	134	119	100	85
ALD/ALDS2-21	2.2		188	183	172	157	140	124	105	88
ALD/ALDS2-22	2.2		197	192	180	165	145	130	110	90
ALD/ALDS2-23	3.0		205	201	188	173	153	137	105	97
ALD/ALDS2-24	3.0		214	210	197	181	160	144	120	105
ALD/ALDS2-25	3.0		223	219	205	189	168	151	125	107
ALD/ALDS2-26	3.0		232	228	214	198	176	158	130	110

ALD/ALDS3

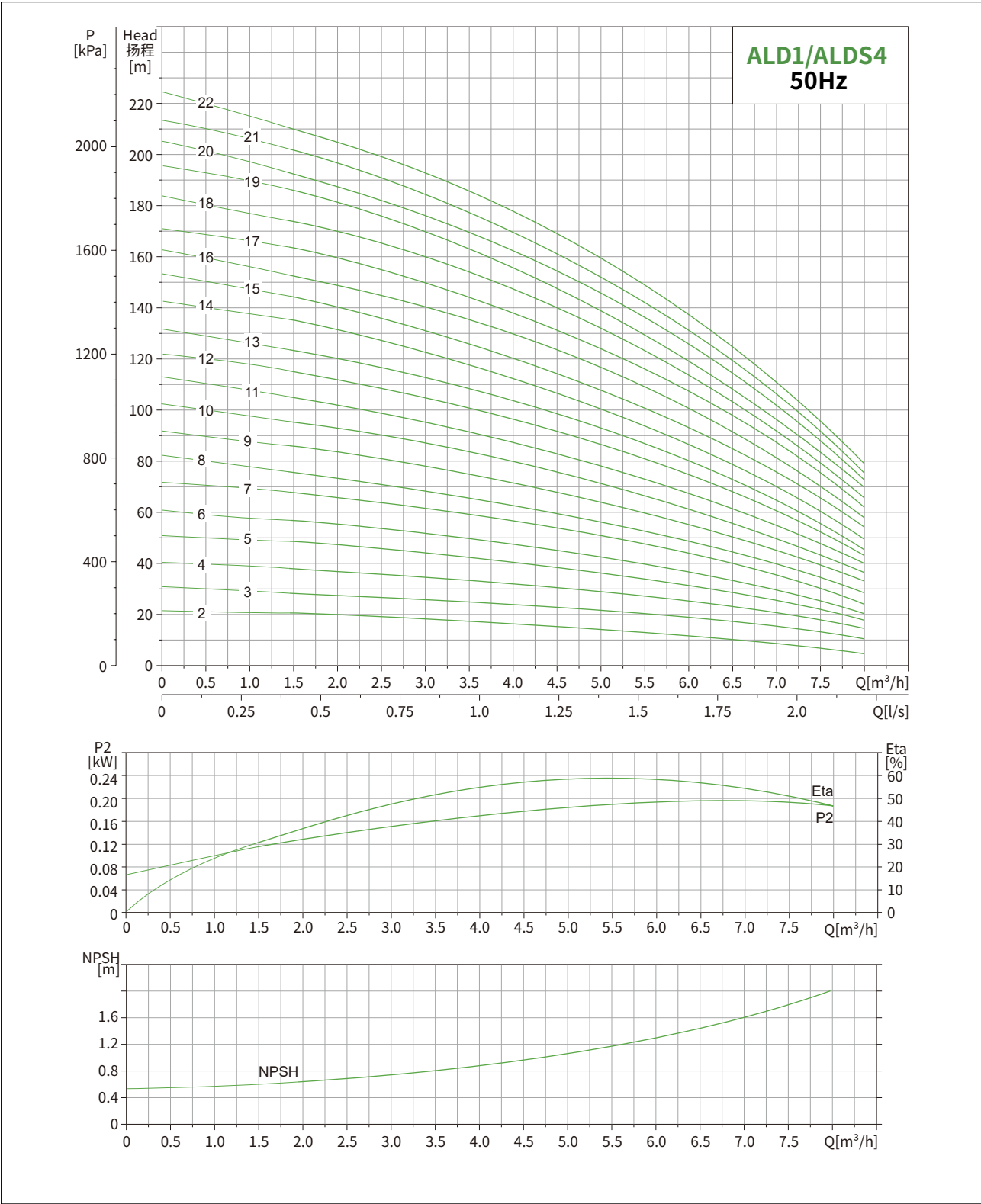


ALD/ALDS3



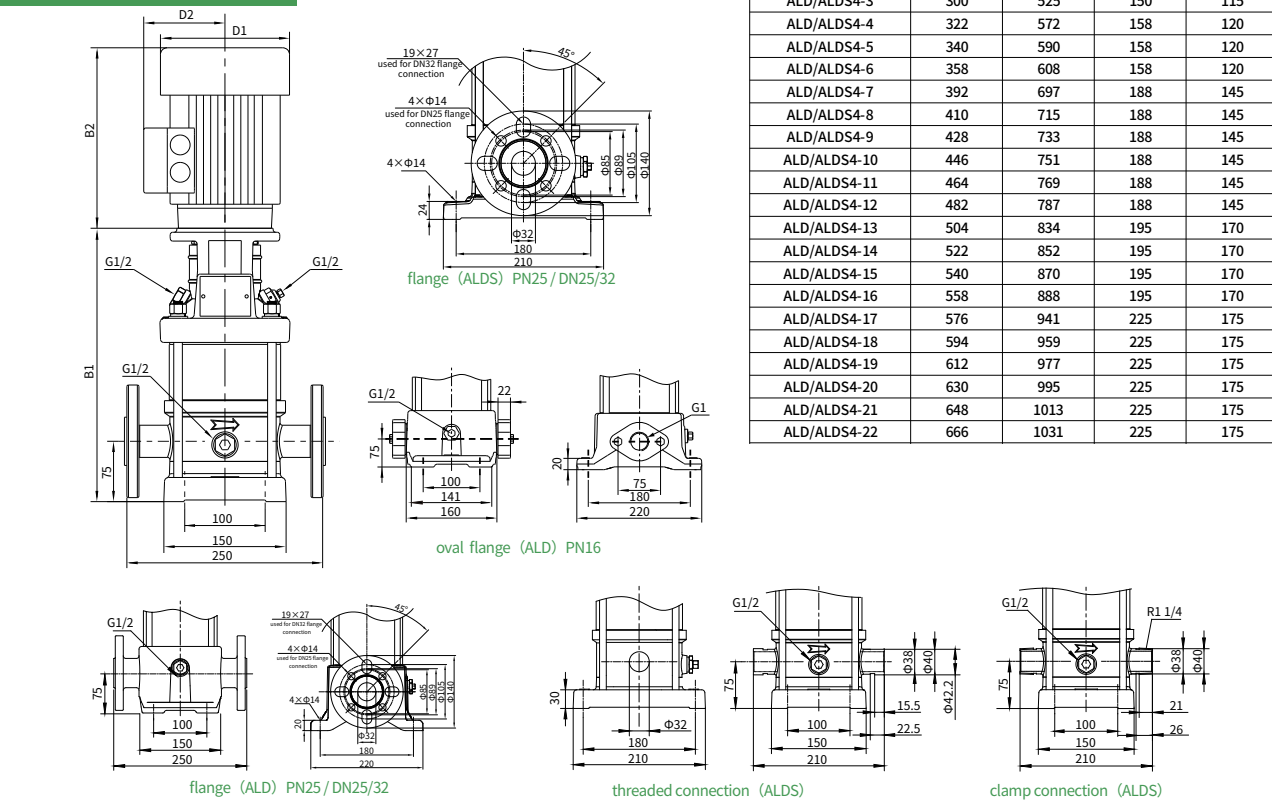
Model	Motor Power(kW)	Q[m³/h]	1.2	1.6	2	2.4	2.8	3	3.6	4	4.4
ALD/ALDS3-2	0.37	H(m)	13	12.5	12	11.5	11	10	8	7.5	5
ALD/ALDS3-3	0.37		19	18.5	18	17	16	15	14	12	9
ALD/ALDS3-4	0.37		25	24	23	22	20	19	17	14	10
ALD/ALDS3-5	0.37		31	30	29	27	25	24	20	17	12
ALD/ALDS3-6	0.55		37	36	35	33	30	28	24	21	15
ALD/ALDS3-7	0.55		43	40	39	37	35	32	28	24	17
ALD/ALDS3-8	0.75		51	48	47	44	41	38	33	28	21
ALD/ALDS3-9	0.75		56	54	51	48	45	42	36	30	23
ALD/ALDS3-10	0.75		62	60	57	54	50	46	40	33	25
ALD/ALDS3-11	1.1		69	66	63	60	56	51	44	38	28
ALD/ALDS3-12	1.1		75	72	69	65	61	56	48	41	31
ALD/ALDS3-13	1.1		80	78	74	70	65	60	51	44	33
ALD/ALDS3-14	1.1		86	83	79	75	68	63	54	46	35
ALD/ALDS3-15	1.1		92	89	85	80	73	68	58	49	37
ALD/ALDS3-16	1.5		101	98	94	88	82	73	66	56	43
ALD/ALDS3-17	1.5		107	104	100	94	87	78	70	59	46
ALD/ALDS3-18	1.5		113	110	105	99	92	82	73	62	47
ALD/ALDS3-19	1.5		119	116	111	104	97	87	77	65	50
ALD/ALDS3-20	1.5		127	123	118	111	104	92	84	71	54
ALD/ALDS3-21	2.2		133	129	124	117	109	97	88	75	57
ALD/ALDS3-22	2.2		140	135	129	122	114	100	91	77	59
ALD/ALDS3-23	2.2		146	141	135	128	119	105	95	81	62
ALD/ALDS3-24	2.2		152	147	140	132	123	110	98	84	64
ALD/ALDS3-25	2.2		158	153	146	138	128	115	102	87	67
ALD/ALDS3-27	2.2		170	164	157	148	138	124	110	93	72
ALD/ALDS3-28	2.2		176	170	162	154	142	128	114	97	71
ALD/ALDS3-29	2.2		182	176	168	159	147	133	118	100	74
ALD/ALDS3-31	3		197	191	183	173	161	142	128	110	85
ALD/ALDS3-33	3		210	203	194	193	170	152	137	116	90
ALD/ALDS3-36	3		228	221	211	200	185	165	149	126	97

ALD/ALDS4



ALD/ALDS4

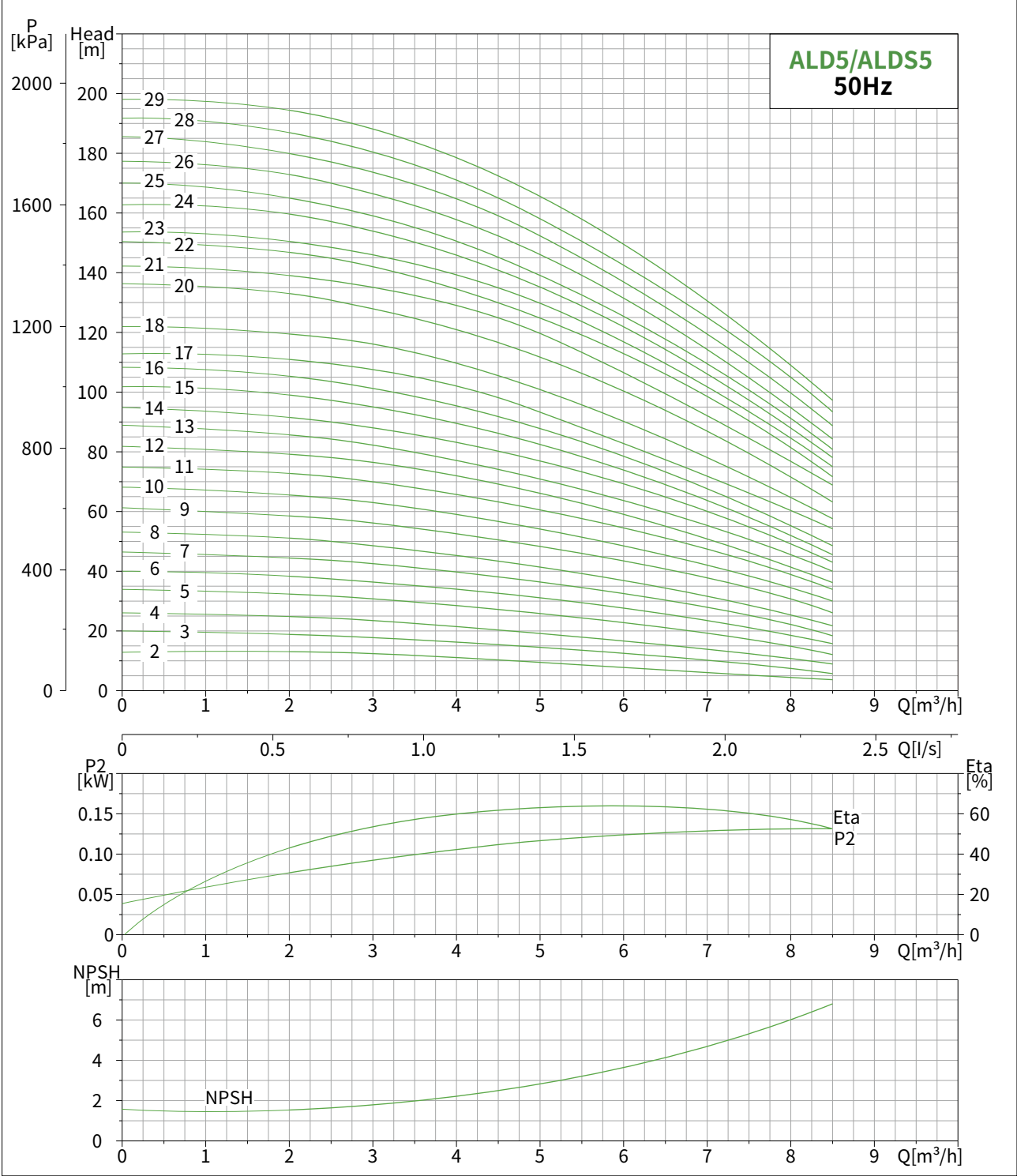
Installation dimension



Model	Dimension(mm)			
	B1	B1+B2	D1	D2
ALD/ALDS4-2	282	507	150	115
ALD/ALDS4-3	300	525	150	115
ALD/ALDS4-4	322	572	158	120
ALD/ALDS4-5	340	590	158	120
ALD/ALDS4-6	358	608	158	120
ALD/ALDS4-7	392	697	188	145
ALD/ALDS4-8	410	715	188	145
ALD/ALDS4-9	428	733	188	145
ALD/ALDS4-10	446	751	188	145
ALD/ALDS4-11	464	769	188	145
ALD/ALDS4-12	482	787	188	145
ALD/ALDS4-13	504	834	195	170
ALD/ALDS4-14	522	852	195	170
ALD/ALDS4-15	540	870	195	170
ALD/ALDS4-16	558	888	195	170
ALD/ALDS4-17	576	941	225	175
ALD/ALDS4-18	594	959	225	175
ALD/ALDS4-19	612	977	225	175
ALD/ALDS4-20	630	995	225	175
ALD/ALDS4-21	648	1013	225	175
ALD/ALDS4-22	666	1031	225	175

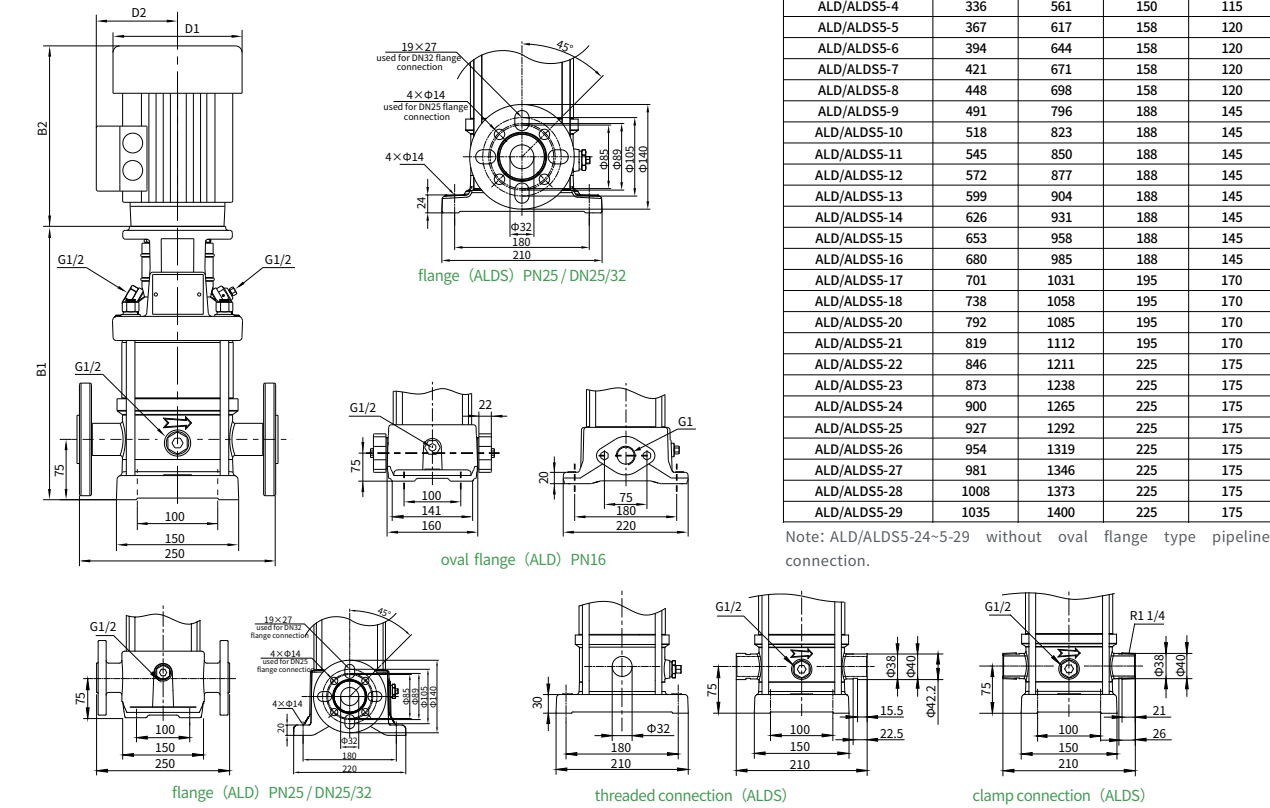
Model	Power (kW)	Q[m³/h]	1.5	2.0	3.0	4.0	5.0	6.0	7.0	8.0
ALD/ALDS4-2	0.37	H(m)	19	18	17	14.5	13	10.5	8	6
ALD/ALDS4-3	0.55		28	27	26	23.5	20	18	14	10
ALD/ALDS4-4	0.75		38	36	34	31.5	27	24.5	18	13
ALD/ALDS4-5	1.1		47	45	43	40.5	34	31.5	23	17
ALD/ALDS4-6	1.1		56	54	52	47.5	41	36	28	20
ALD/ALDS4-7	1.5		66	63	61	57	48	44.5	34	24
ALD/ALDS4-8	1.5		74	72	70	64	55	49.5	38	27
ALD/ALDS4-9	2.2		86	81	78	72	63	56	44	32
ALD/ALDS4-10	2.2		96	90	87	81	71	64	50	34
ALD/ALDS4-11	2.2		105	99	95	88	78	69	53	39
ALD/ALDS4-12	2.2		114	108	104	96	85	75	57	41
ALD/ALDS4-13	3.0		123	117	113	103	93	83	63	45
ALD/ALDS4-14	3.0		136	126	122	114	101	90	69	48
ALD/ALDS4-15	3.0		142	135	131	120	108	96	73	52
ALD/ALDS4-16	3.0		152	144	140	129	115	102	78	55
ALD/ALDS4-17	4.0		163	153	149	137	122	108	83	62
ALD/ALDS4-18	4.0		175	162	158	145	129	115	89	65
ALD/ALDS4-19	4.0		183	171	168	155	137	123	95	67
ALD/ALDS4-20	4.0		192	180	176	161	144	128	99	72
ALD/ALDS4-21	4.0		203	210	184	169	152	134	103	75
ALD/ALDS4-22	4.0		211	200	192	177	160	139	108	79

ALD/ALDS5



ALD/ALDS5

Installation dimension

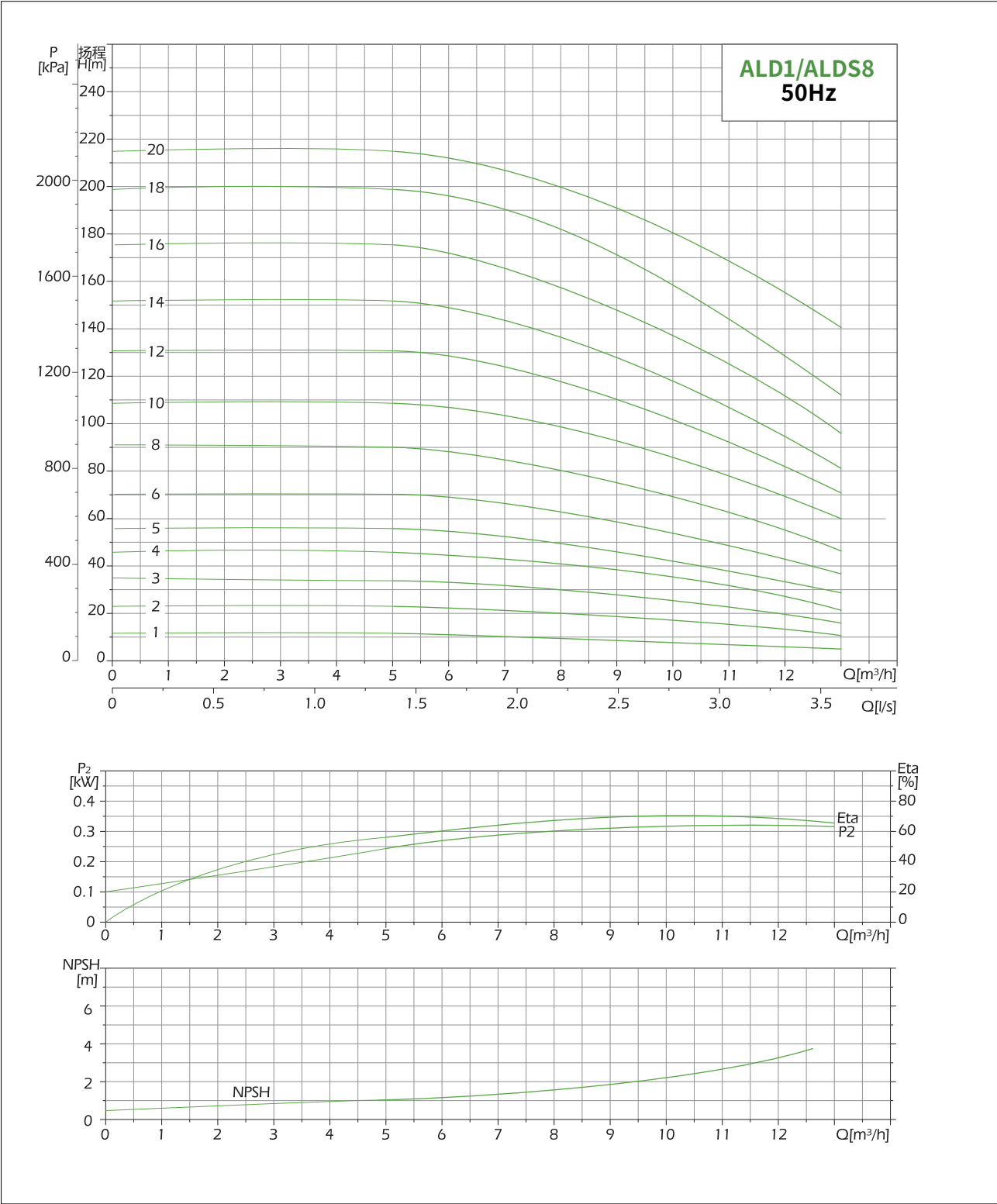


Model	Dimension(mm)			
	B1	B1+B2	D1	D2
ALD/ALDS5-2	282	507	150	115
ALD/ALDS5-3	309	534	150	115
ALD/ALDS5-4	336	561	150	115
ALD/ALDS5-5	367	617	158	120
ALD/ALDS5-6	394	644	158	120
ALD/ALDS5-7	421	671	158	120
ALD/ALDS5-8	448	698	158	120
ALD/ALDS5-9	491	796	188	145
ALD/ALDS5-10	518	823	188	145
ALD/ALDS5-11	545	850	188	145
ALD/ALDS5-12	572	877	188	145
ALD/ALDS5-13	599	904	188	145
ALD/ALDS5-14	626	931	188	145
ALD/ALDS5-15	653	958	188	145
ALD/ALDS5-16	680	985	188	145
ALD/ALDS5-17	701	1031	195	170
ALD/ALDS5-18	738	1058	195	170
ALD/ALDS5-20	792	1085	195	170
ALD/ALDS5-21	819	1112	195	170
ALD/ALDS5-22	846	1211	225	175
ALD/ALDS5-23	873	1238	225	175
ALD/ALDS5-24	900	1265	225	175
ALD/ALDS5-25	927	1292	225	175
ALD/ALDS5-26	954	1319	225	175
ALD/ALDS5-27	981	1346	225	175
ALD/ALDS5-28	1008	1373	225	175
ALD/ALDS5-29	1035	1400	225	175

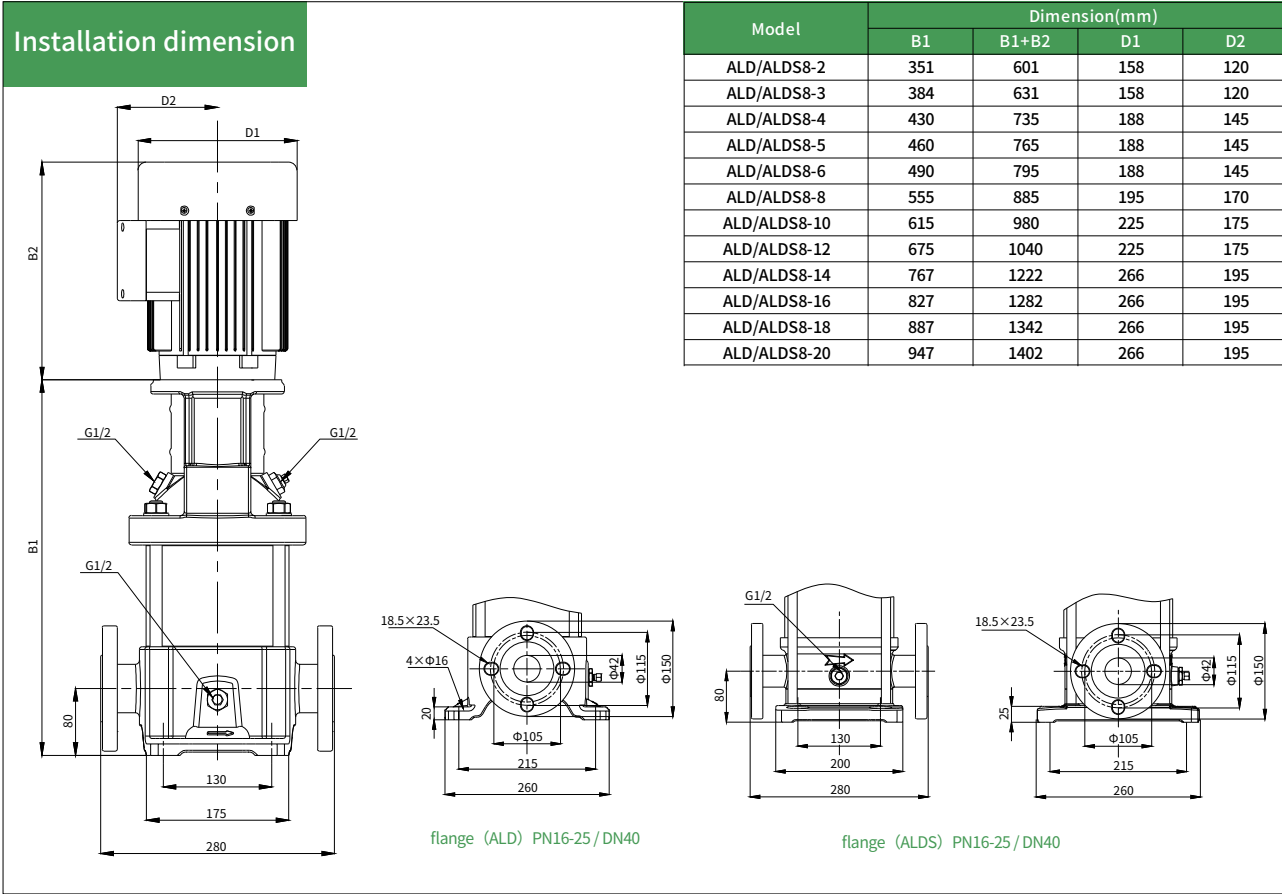
Note: ALD/ALDS5-24~5-29 without oval flange type pipeline connection.

Model	Motor Power(kW)	Q[m³/h]	2	3	4	5	6	7	8.5
ALD/ALDS5-2	0.37	H(m)	12.5	12	10	9	7	6	4
ALD/ALDS5-3	0.55		19	18	16	15	12	10	6
ALD/ALDS5-4	0.55		25	24	22	19	16	14	9
ALD/ALDS5-5	0.75		32	30	28	24	22	18	12
ALD/ALDS5-6	1.1		38	37	34	28	27	23	16
ALD/ALDS5-7	1.1		45	42	40	32	31	27	18
ALD/ALDS5-8	1.1		51	48	45	40	36	31	22
ALD/ALDS5-9	1.5		59	56	53	47	44	37	26
ALD/ALDS5-10	1.5		65	62	59	53	48	41	30
ALD/ALDS5-11	2.2		73	70	66	59	54	47	34
ALD/ALDS5-12	2.2		79	76	72	63	59	51	36
ALD/ALDS5-13	2.2		85	82	78	68	64	55	40
ALD/ALDS5-14	2.2		92	89	83	74	69	60	43
ALD/ALDS5-15	2.2		99	95	89	79	74	63	45
ALD/ALDS5-16	2.2		105	101	95	85	78	68	48
ALD/ALDS5-17	3		112	109	103	93	85	74	55
ALD/ALDS5-18	3		119	115	109	98	90	78	58
ALD/ALDS5-20	3		132	127	120	108	100	87	63
ALD/ALDS5-21	3		140	136	128	115	107	93	69
ALD/ALDS5-22	4		147	142	134	120	112	97	72
ALD/ALDS5-23	4		153	148	140	127	117	102	75
ALD/ALDS5-24	4		160	154	146	132	122	106	78
ALD/ALDS5-25	4		166	160	151	139	127	111	81
ALD/ALDS5-26	4		173	166	157	146	132	115	84
ALD/ALDS5-27	4		181	175	166	153	139	122	89
ALD/ALDS5-28	4		187	182	172	157	144	126	93
ALD/ALDS5-29	4		194	188	178	161	149	131	96

ALD/ALDS8

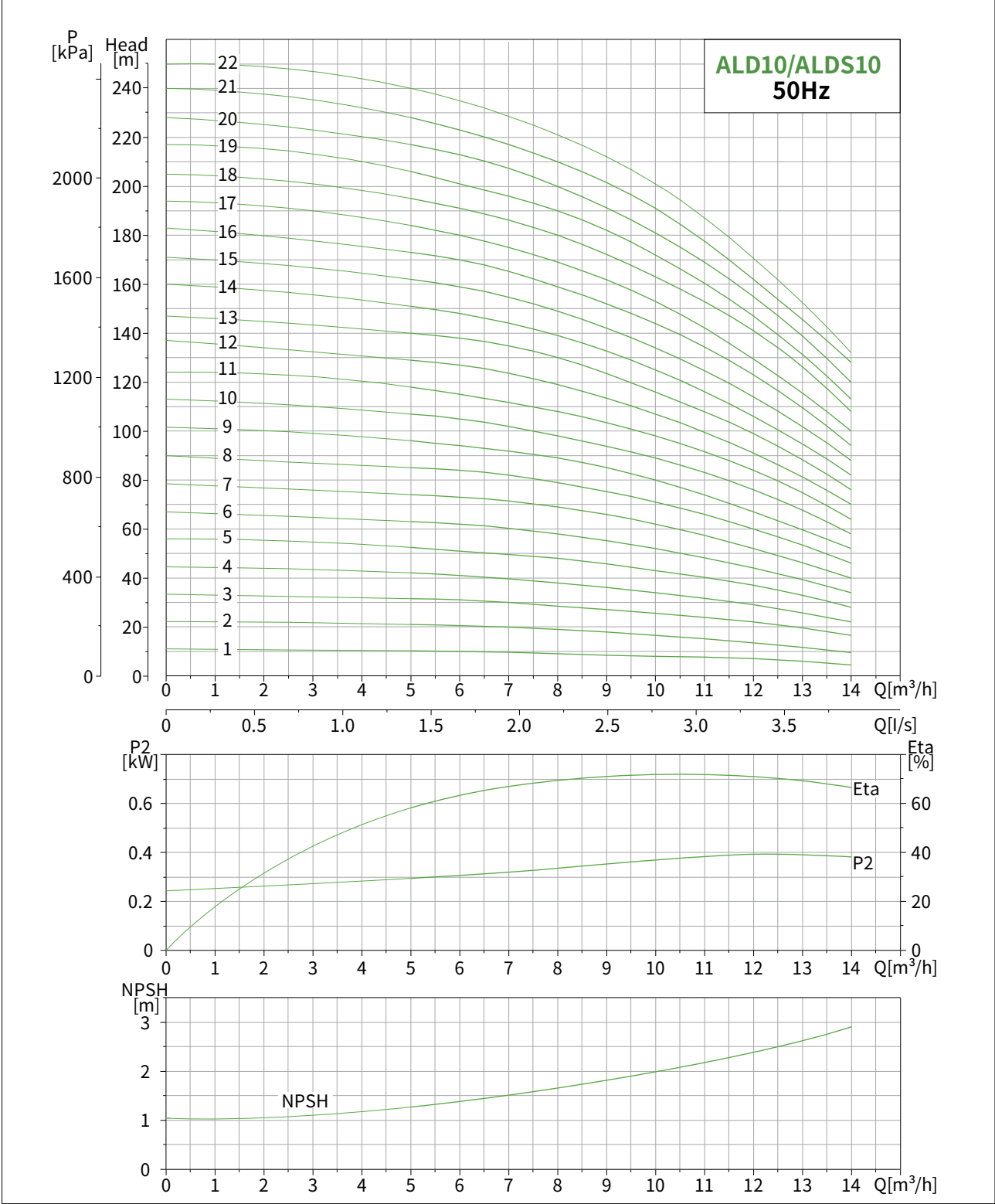


ALD/ALDS8



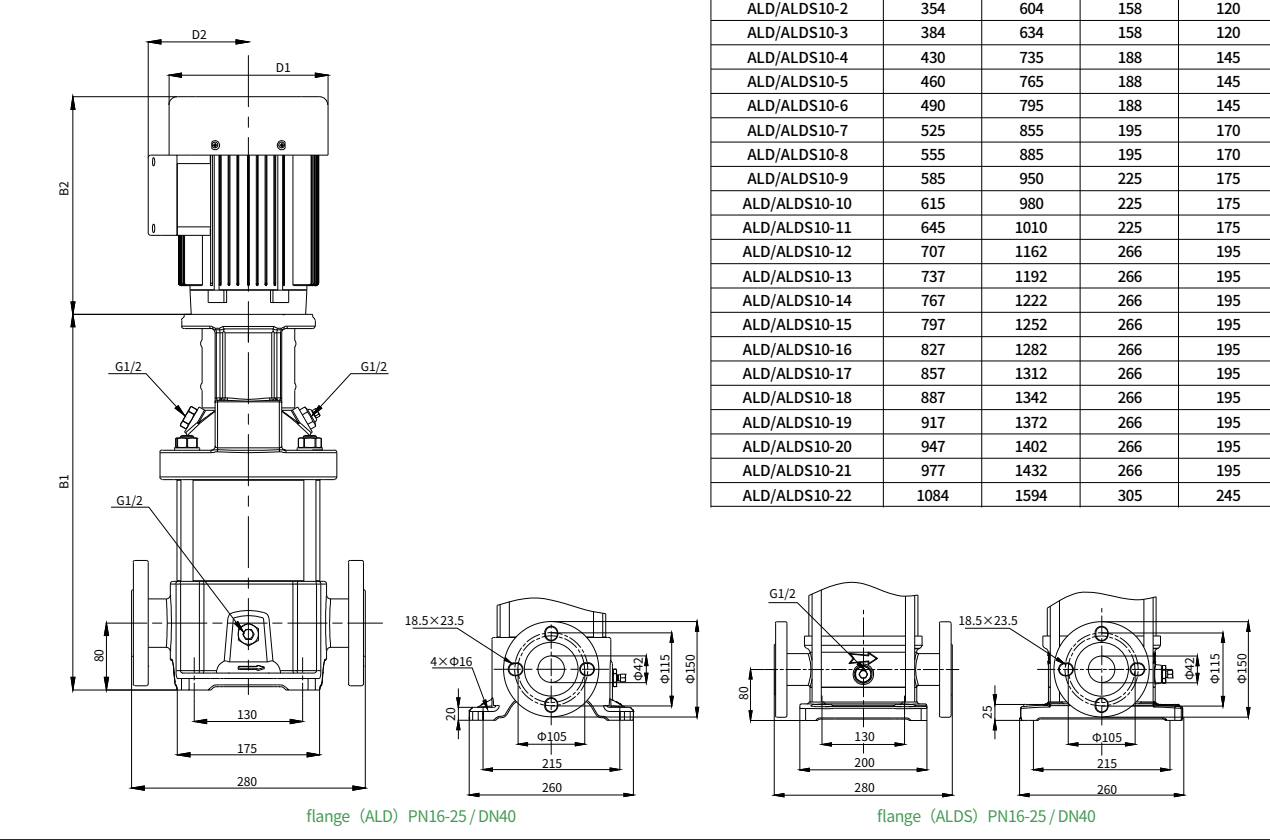
Model	Power (kW)	Q[m³/h]	2.0	4.0	6.0	8.0	10	12
ALD/ALDS8-1	0.37	H(m)	12	11	10	9	7.5	6
ALD/ALDS8-2	0.75		22	21	20	19	16	14
ALD/ALDS8-3	1.1		33	32	30	28	24	19
ALD/ALDS8-4	1.5		43	42	40	37	33	27
ALD/ALDS8-5	2.2		54	52	49	46	41	33
ALD/ALDS8-6	2.2		65	63	60	56	48	38
ALD/ALDS8-8	3.0		86	84	81	74	65	53
ALD/ALDS8-10	4.0		108	106	104	97	88	77
ALD/ALDS8-12	4.0		130	128	125	116	108	95
ALD/ALDS8-14	5.5		152	150	148	138	130	110
ALD/ALDS8-16	5.5		173	171	169	157	148	126
ALD/ALDS8-18	7.5		195	193	186	180	164	135
ALD/ALDS8-20	7.5		216	214	206	210	182	150

ALD/ALDS10



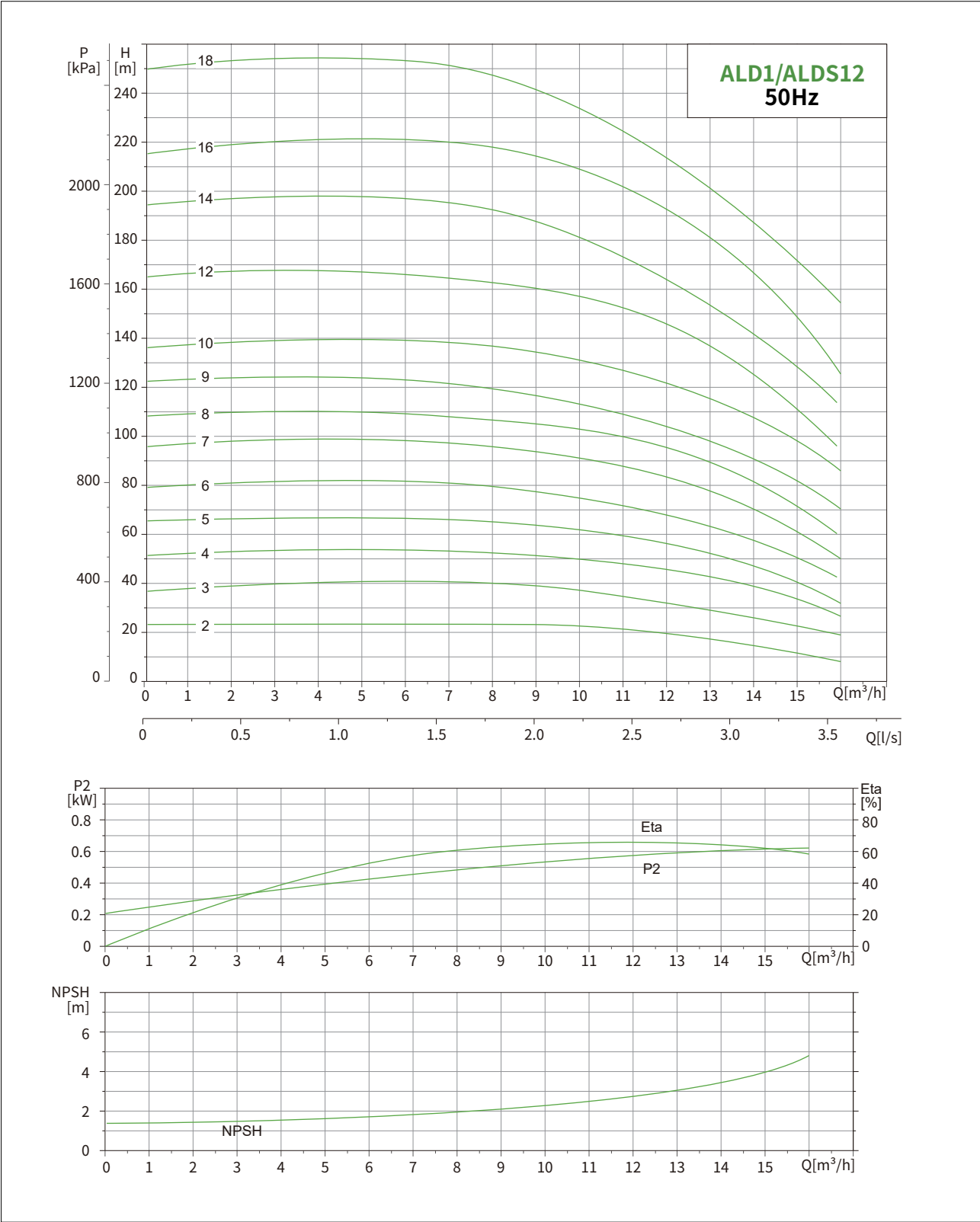
ALD/ALDS10

Installation dimension

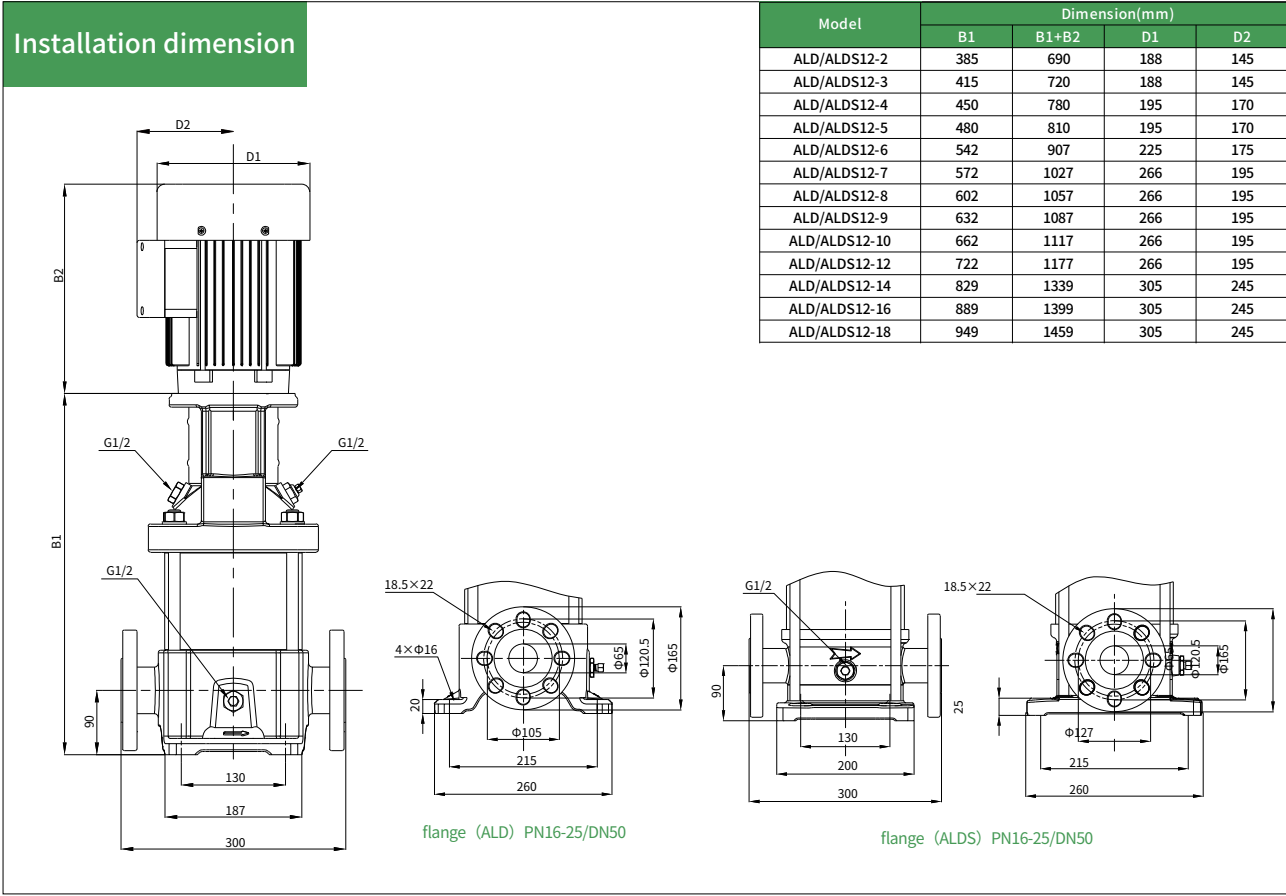


Model	Motor Power(kW)	Q[m³/h]	5	6	8	10	12	14
ALD/ALDS10-1	0.75		10.2	10	9	8	7	4.5
ALD/ALDS10-2	0.75		21	20.5	19	16.5	13.5	9.5
ALD/ALDS10-3	1.1		31.5	31	28.5	25.5	22	16.5
ALD/ALDS10-4	1.5		42	41	38	34	29	22
ALD/ALDS10-5	2.2		52.5	51	48	43	37	28
ALD/ALDS10-6	2.2		63	62	58	52	44	34
ALD/ALDS10-7	3		74	73	69	62	52	40
ALD/ALDS10-8	3		85	84	79	71	60	46
ALD/ALDS10-9	4		96	94	89	80	67	52
ALD/ALDS10-10	4		107	105	98	89	76	58
ALD/ALDS10-11	4		118	115	108	98	84	64
ALD/ALDS10-12	5.5		129	127	119	107	91	70
ALD/ALDS10-13	5.5		140	138	130	116	99	76
ALD/ALDS10-14	5.5		151	148	139	125	106	82
ALD/ALDS10-15	5.5		162	159	149	134	114	88
ALD/ALDS10-16	7.5		173	170	159	144	123	94
ALD/ALDS10-17	7.5		184	180	169	153	130	100
ALD/ALDS10-18	7.5		195	191	180	163	141	108
ALD/ALDS10-19	7.5		206	201	190	172	147	113
ALD/ALDS10-20	7.5		217	213	200	181	155	120
ALD/ALDS10-21	7.5		228	223	210	191	162	128
ALD/ALDS10-22	11		240	235	221	201	171	132

ALD/ALDS12

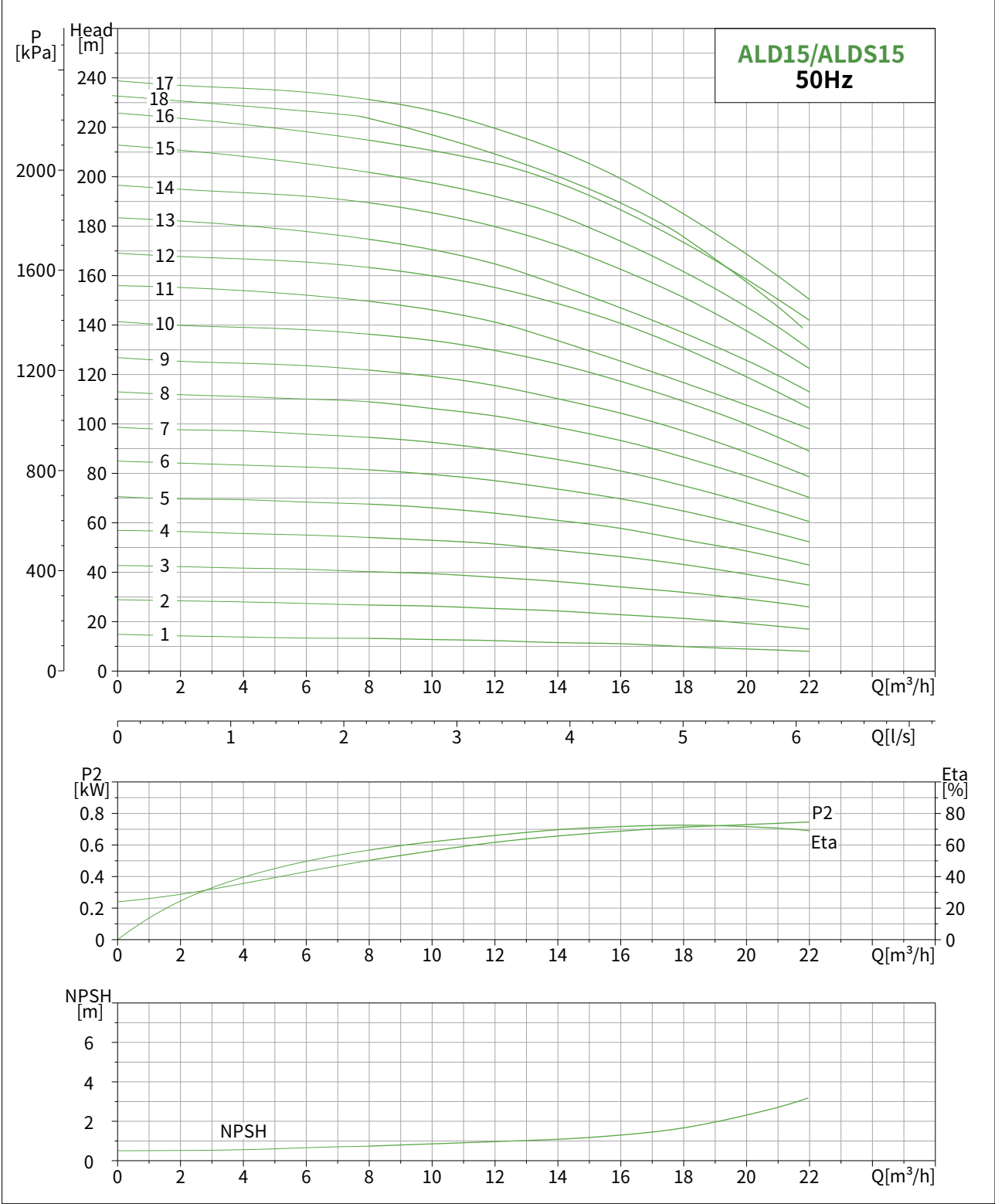


ALD/ALDS12



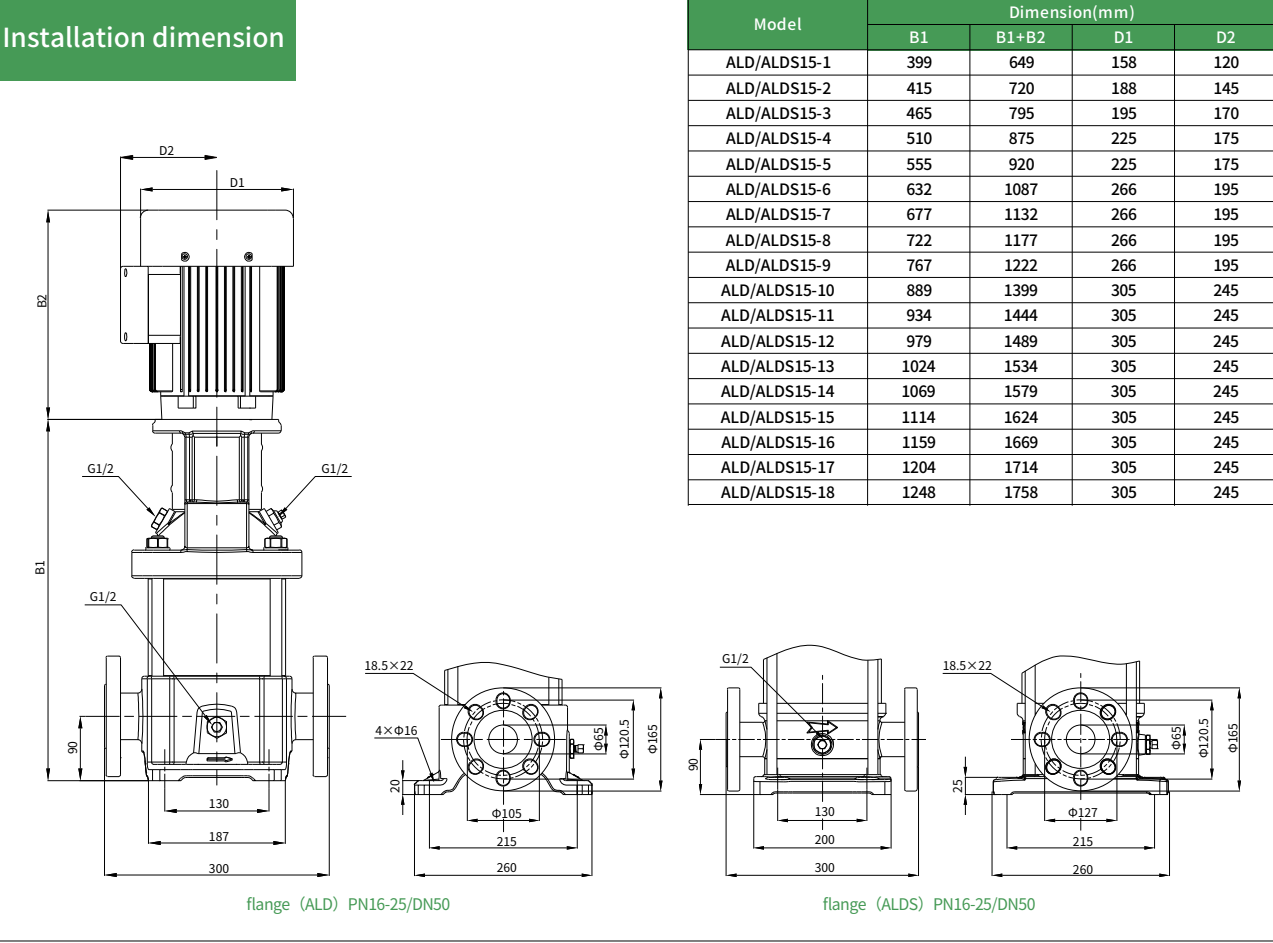
Model	Power (kW)	Q[m³/h]	4.0	6.0	8.0	10	12	14	16
ALD/ALDS12-2	1.5	H(m)	26	25.5	25	24.5	24	16.5	10
ALD/ALDS12-3	2.2		40	39.5	39	37.5	36	28	20
ALD/ALDS12-4	3.0		54	53.5	52.5	50	47	38	27
ALD/ALDS12-5	3.0		68	67	65	62	58	46	35
ALD/ALDS12-6	4.0		81	80	78	72	68	55	40
ALD/ALDS12-7	5.5		96	95	93	86	80	67	58
ALD/ALDS12-8	5.5		109	107	105	98	91	77	62
ALD/ALDS12-9	5.5		120	118	115	108	104	84	76
ALD/ALDS12-10	7.5		136	135	132	128	115	93	85
ALD/ALDS12-12	7.5		165	164	157	148	138	122	97
ALD/ALDS12-14	11.0		194	192	185	178	160	142	115
ALD/ALDS12-16	11.0		221	219	210	202	182	165	130
ALD/ALDS12-18	11.0		250	246	240	225	204	170	140

ALD/ALDS15



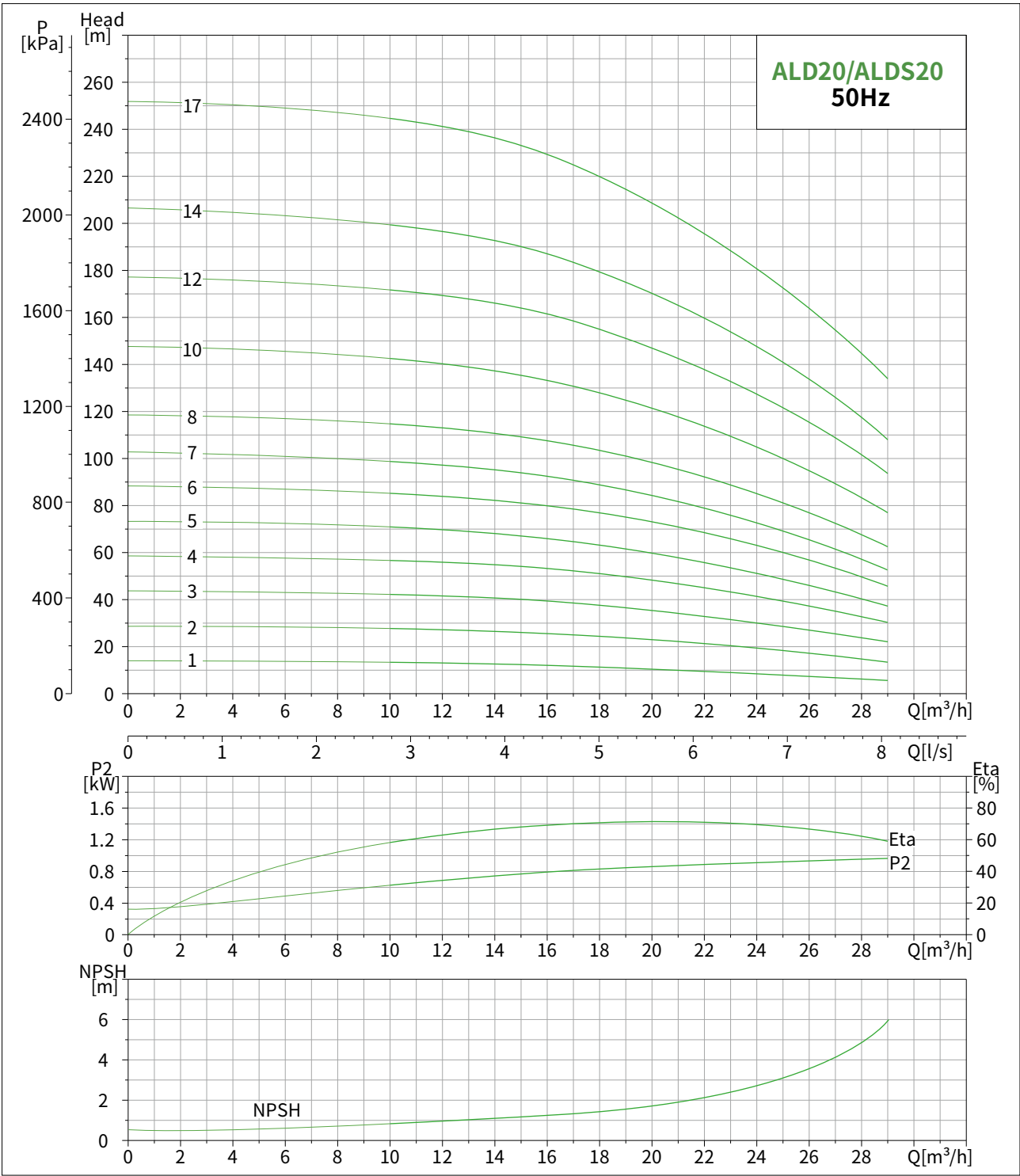
ALD/ALDS15

Installation dimension

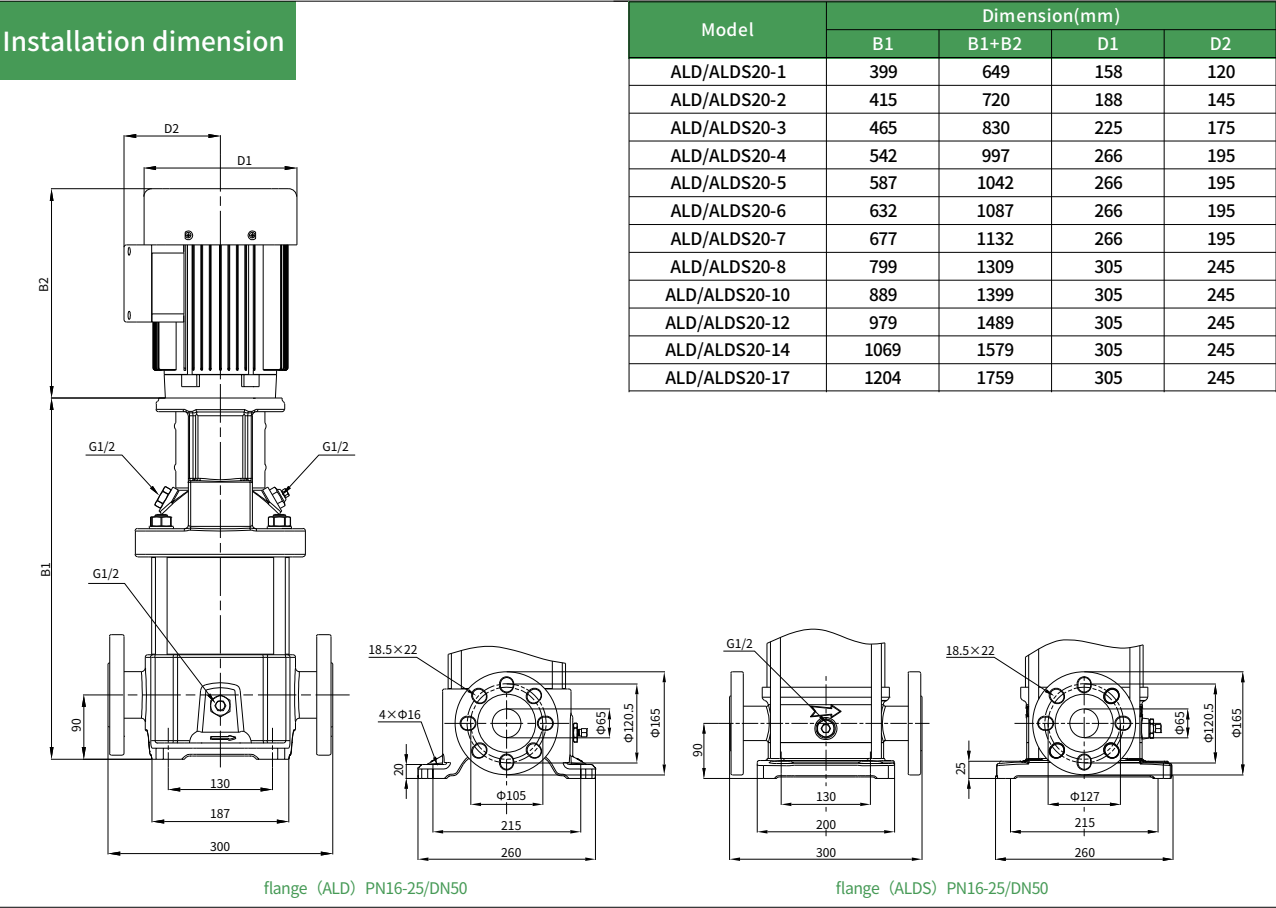


Model	Motor Power(kW)	Q[m³/h]	8	9	12	15	18	20	22
ALD/ALDS15-1	1.1	H(m)	13.5	13	12	11	10	9.5	8
ALD/ALDS15-2	2.2		28	26	25	23	21	19	17
ALD/ALDS15-3	3		41	40	38	35	32	29	25
ALD/ALDS15-4	4		56	55	51	47	43	39	35
ALD/ALDS15-5	4		68	66	64	58	53	49	43
ALD/ALDS15-6	5.5		82	80	77	71	64	59	52
ALD/ALDS15-7	5.5		95	94	89	83	75	68	60
ALD/ALDS15-8	7.5		110	108	103	96	86	79	70
ALD/ALDS15-9	7.5		123	120	115	108	97	89	78
ALD/ALDS15-10	11		138	136	129	120	109	100	89
ALD/ALDS15-11	11		151	149	142	130	119	109	98
ALD/ALDS15-12	11		165	162	155	142	130	119	107
ALD/ALDS15-13	11		176	174	166	153	139	128	113
ALD/ALDS15-14	11		190	188	180	166	151	138	122
ALD/ALDS15-15	15		203	202	192	180	162	148	130
ALD/ALDS15-16	15		217	214	205	191	174	159	141
ALD/ALDS15-17	15		232	230	219	205	185	169	150
ALD/ALDS15-18	15		245	243	230	216	196	179	159

ALD/ALDS20

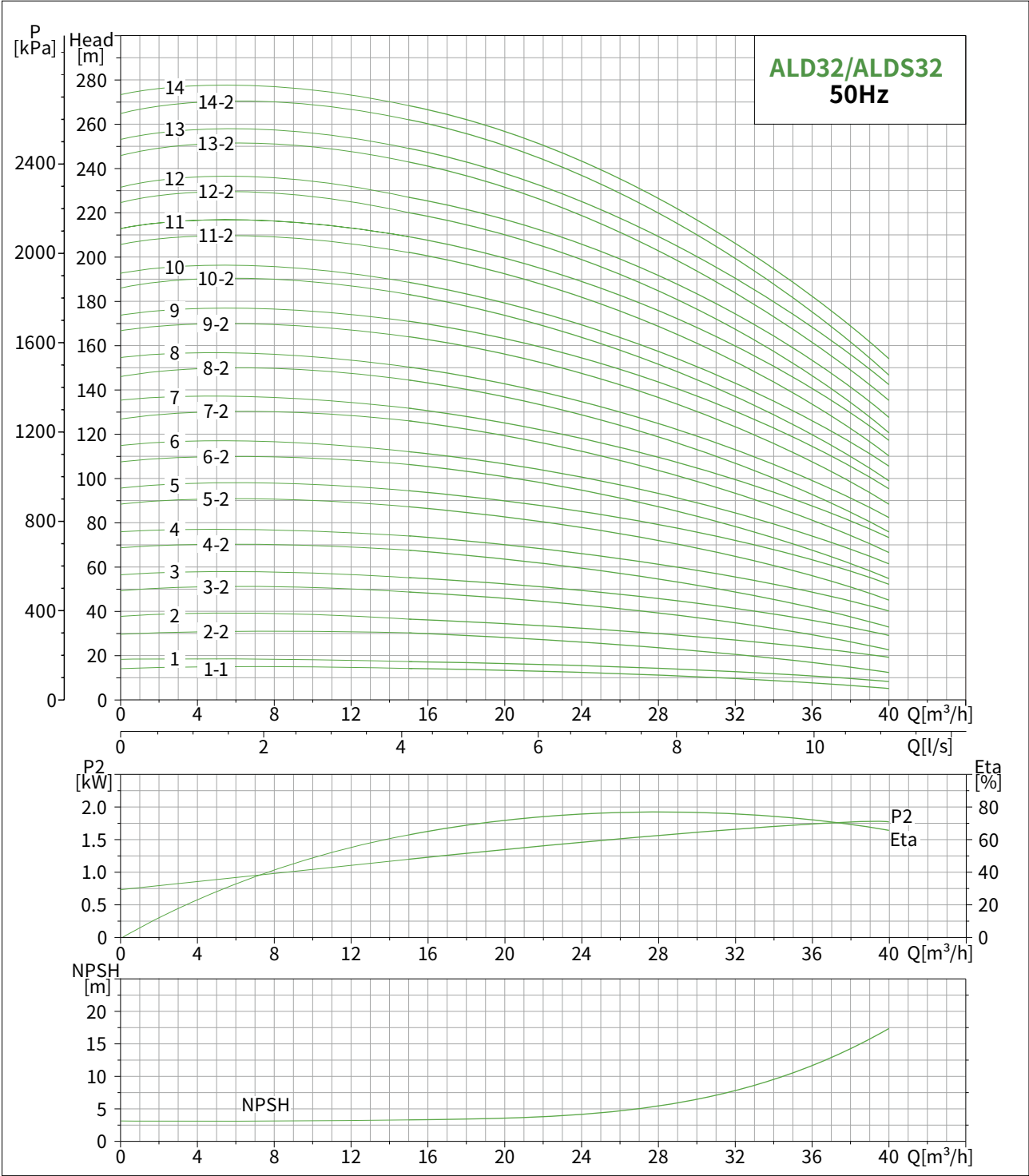


ALD/ALDS20



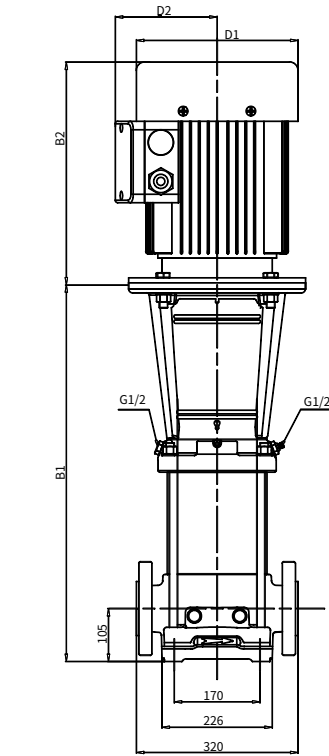
Model	Motor Power(kW)	Q[m³/h]	10	12	16	18	20	24	26	29
ALD/ALDS20-1	1.1	H(m)	13	13	12	11	10.5	9	8	5
ALD/ALDS20-2	2.2		28	27	25	24	22.5	19	18	12
ALD/ALDS20-3	4		43	42	39	38	36	30	28	22
ALD/ALDS20-4	5.5		57	56	53	51	48	41	38	30
ALD/ALDS20-5	5.5		71	70	66	63	60	52	46	38
ALD/ALDS20-6	7.5		86	84	80	77	72	62	57	45
ALD/ALDS20-7	7.5		99	97	93	88	84	72	65	52
ALD/ALDS20-8	11		116	113	107	104	96	85	77	62
ALD/ALDS20-10	11		144	140	132	128	120	105	95	78
ALD/ALDS20-12	15		173	169	161	155	144	127	115	93
ALD/ALDS20-14	15		200	197	187	180	168	147	133	108
ALD/ALDS20-17	18.5		245	241	229	220	205	181	163	134

ALD/ALDS32

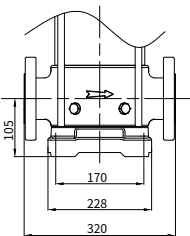
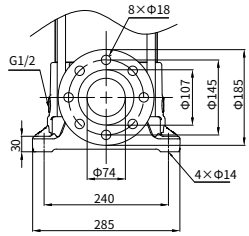


ALD/ALDS32

Installation dimension



flange (ALD) PN16-25-40/DN65

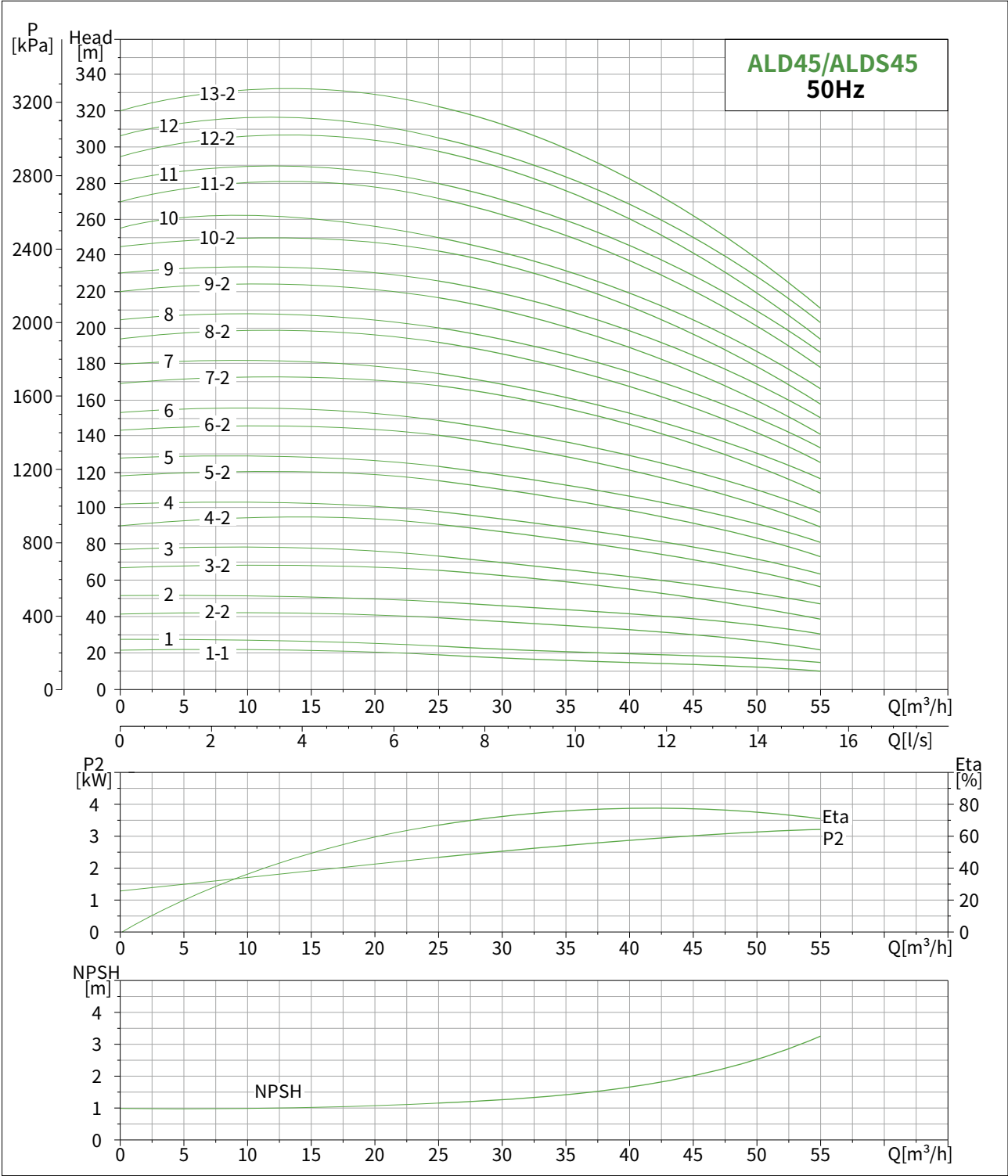


flange (ALDS) PN16-25-40/DN65

Model	Dimension(mm)			
	B1	B1+B2	D1	D2
ALD/ALDS32-1-1	512	817	188	145
ALD/ALDS32-1	512	817	188	145
ALD/ALDS32-2-2	582	912	195	170
ALD/ALDS32-2	582	947	225	175
ALD/ALDS32-3-2	652	1107	266	195
ALD/ALDS32-3	652	1107	266	195
ALD/ALDS32-4-2	722	1177	266	195
ALD/ALDS32-4	722	1177	266	195
ALD/ALDS32-5-2	892	1402	305	245
ALD/ALDS32-5	892	1402	305	245
ALD/ALDS32-6-2	962	1472	305	245
ALD/ALDS32-6	962	1472	305	245
ALD/ALDS32-7-2	1032	1542	305	245
ALD/ALDS32-7	1032	1542	305	245
ALD/ALDS32-8-2	1102	1612	305	245
ALD/ALDS32-8	1102	1612	305	245
ALD/ALDS32-9-2	1172	1727	305	245
ALD/ALDS32-9	1172	1727	305	245
ALD/ALDS32-10-2	1242	1797	305	245
ALD/ALDS32-10	1242	1797	305	245
ALD/ALDS32-11-2	1312	1942	355	270
ALD/ALDS32-11	1312	1942	355	270
ALD/ALDS32-12-2	1382	2012	355	270
ALD/ALDS32-12	1382	2012	355	270
ALD/ALDS32-13-2	1452	2132	400	305
ALD/ALDS32-13	1452	2132	400	305
ALD/ALDS32-14-2	1522	2202	400	305
ALD/ALDS32-14	1522	2202	400	305

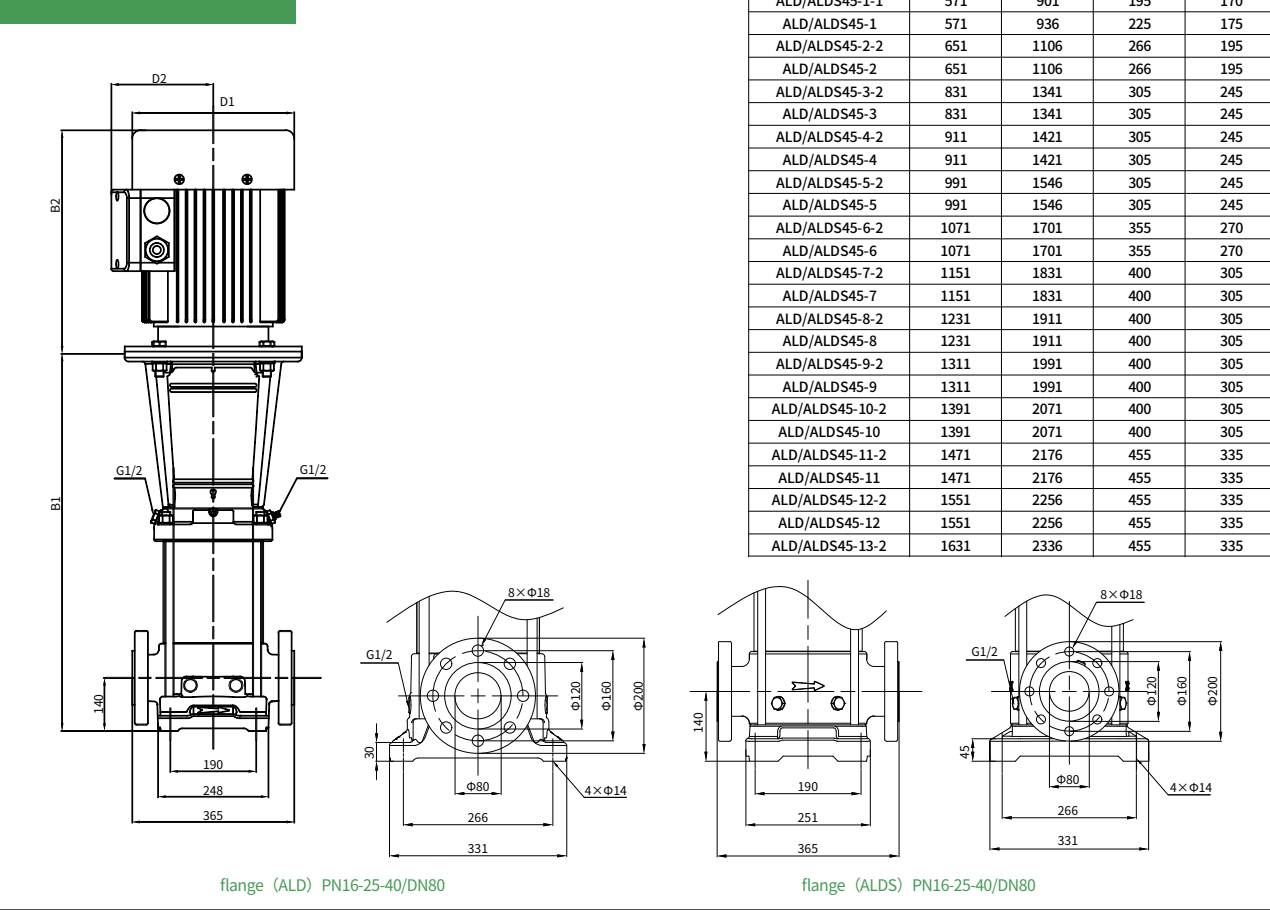
Model	Motor Power(kW)	Q[m³/h]	15	20	25	32	35	40
ALD/ALDS32-1-1	1.5	H(m)	15	14	13	10	8	5
ALD/ALDS32-1	2.2		18	17	16	13	11.5	9
ALD/ALDS32-2-2	3		31	29.5	26.5	20.5	17.5	12
ALD/ALDS32-2	4		37	35.5	32.5	27.5	25	19.5
ALD/ALDS32-3-2	5.5		50	47	43.5	35.5	31	22.5
ALD/ALDS32-3	5.5		55.5	53	49	41.5	37.5	29.5
ALD/ALDS32-4-2	7.5		68.5	65	60	49.5	44	32.5
ALD/ALDS32-4	7.5		74.5	70.5	66	56	50.5	40
ALD/ALDS32-5-2	11		88.5	84.5	78	65.5	58.5	45
ALD/ALDS32-5	11		94.5	90	94	72	65	52
ALD/ALDS32-6-2	11		107	102	94.5	79.5	71	55
ALD/ALDS32-6	11		113	108	100	85.5	77.5	61.5
ALD/ALDS32-7-2	15		127	121	112	94.5	85	66.5
ALD/ALDS32-7	15		133	126	118	101	92	73.5
ALD/ALDS32-8-2	15		145	138	128	108	98	76.5
ALD/ALDS32-8	15		151	144	134	115	104	83
ALD/ALDS32-9-2	18.5		165	158	147	124	112	88.5
ALD/ALDS32-9	18.5		171	163	152	131	119	95.5
ALD/ALDS32-10-2	18.5		184	175	163	138	125	98.5
ALD/ALDS32-10	18.5		190	181	169	145	133	106
ALD/ALDS32-11-2	22		203	194	181	154	140	111
ALD/ALDS32-11	22		209	200	187	161	147	118
ALD/ALDS32-12-2	22		222	212	197	168	152	121
ALD/ALDS32-12	22		227	217	203	176	160	128
ALD/ALDS32-13-2	30		244	233	218	187	169	136
ALD/ALDS32-13	30		250	239	224	193	177	145
ALD/ALDS32-14-2	30		263	251	234	201	183	146
ALD/ALDS32-14	30		269	258	241	207	188	156

ALD/ALDS45



ALD/ALDS45

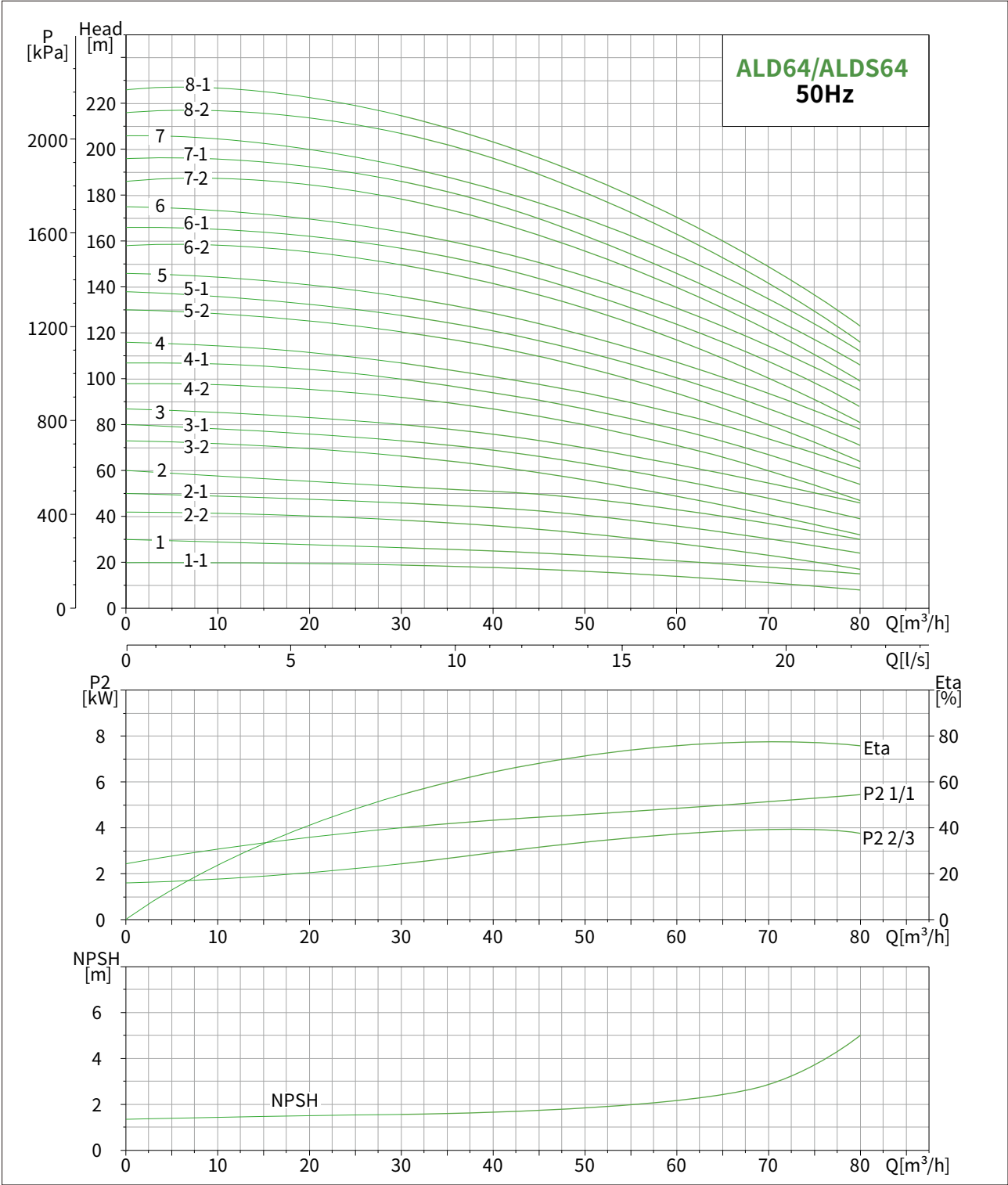
Installation dimension



Model	Dimension(mm)			
	B1	B1+B2	D1	D2
ALD/ALDS45-1-1	571	901	195	170
ALD/ALDS45-1	571	936	225	175
ALD/ALDS45-2-2	651	1106	266	195
ALD/ALDS45-2	651	1106	266	195
ALD/ALDS45-3-2	831	1341	305	245
ALD/ALDS45-3	831	1341	305	245
ALD/ALDS45-4-2	911	1421	305	245
ALD/ALDS45-4	911	1421	305	245
ALD/ALDS45-5-2	991	1546	305	245
ALD/ALDS45-5	991	1546	305	245
ALD/ALDS45-6-2	1071	1701	355	270
ALD/ALDS45-6	1071	1701	355	270
ALD/ALDS45-7-2	1151	1831	400	305
ALD/ALDS45-7	1151	1831	400	305
ALD/ALDS45-8-2	1231	1911	400	305
ALD/ALDS45-8	1231	1911	400	305
ALD/ALDS45-9-2	1311	1991	400	305
ALD/ALDS45-9	1311	1991	400	305
ALD/ALDS45-10-2	1391	2071	400	305
ALD/ALDS45-10	1391	2071	400	305
ALD/ALDS45-11-2	1471	2176	455	335
ALD/ALDS45-11	1471	2176	455	335
ALD/ALDS45-12-2	1551	2256	455	335
ALD/ALDS45-12	1551	2256	455	335
ALD/ALDS45-13-2	1631	2336	455	335

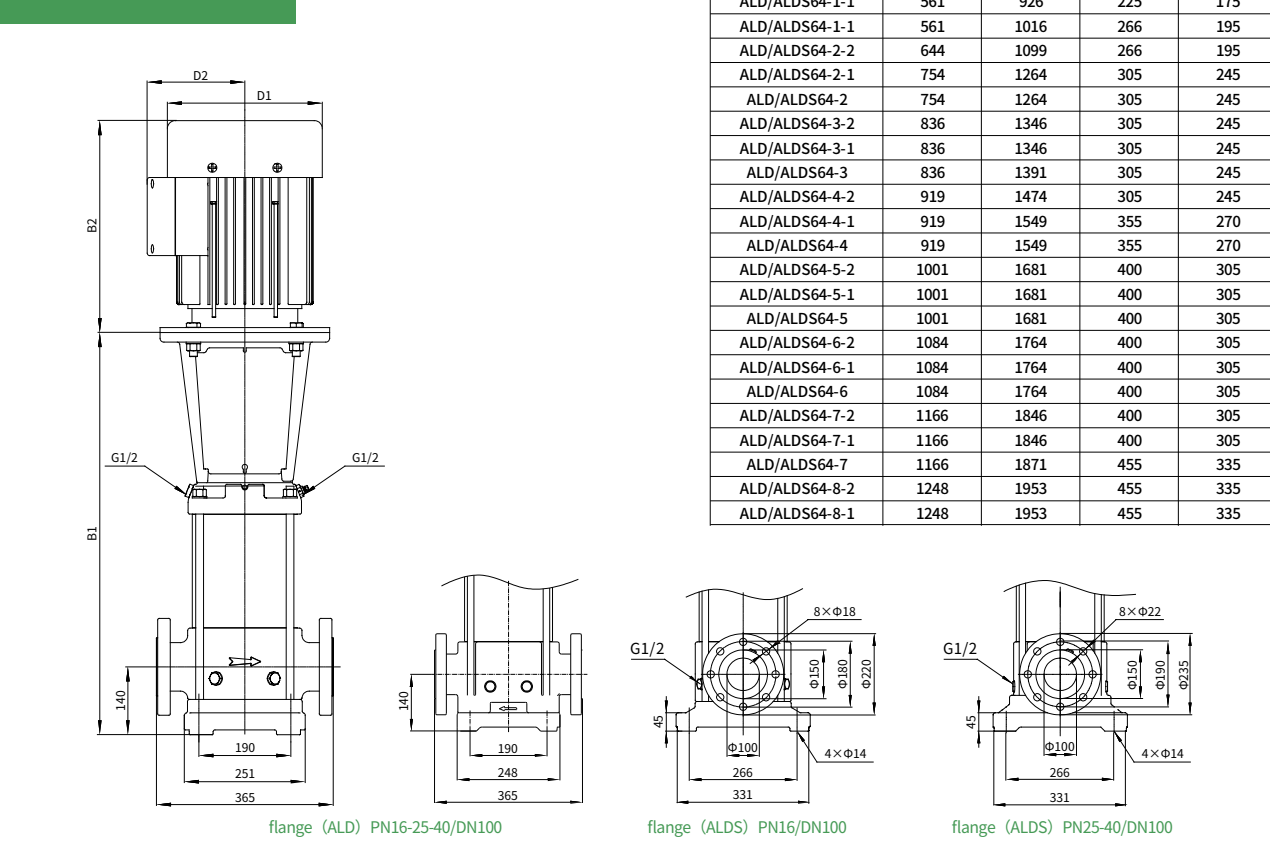
Model	Motor Power(kW)	Q[m³/h]	25	30	35	40	45	50	55
ALD/ALDS45-1-1	3	H(m)	20	19.5	18	17	15	12.5	10.5
ALD/ALDS45-1	4		24	23	22	20.5	19	17.5	15
ALD/ALDS45-2-2	5.5		41	39	37	34	30.5	26.5	22
ALD/ALDS45-2	7.5		48.5	46.5	44.5	42	39	35	31
ALD/ALDS45-3-2	11		66	64	61	56.5	52	46	40
ALD/ALDS45-3	11		73.5	71	68	64	59.5	54	47.5
ALD/ALDS45-4-2	15		91	88	84	78.5	72	64.5	56
ALD/ALDS45-4	15		98.5	95	91	85.5	79.5	72.5	64
ALD/ALDS45-5-2	18.5		116	113	107	101	92.5	83.5	73
ALD/ALDS45-5	18.5		124	120	115	108	100	91.5	81
ALD/ALDS45-6-2	22		142	137	131	122	113	103	90
ALD/ALDS45-6	22		149	144	138	130	121	111	98
ALD/ALDS45-7-2	30		168	163	156	147	135	123	109
ALD/ALDS45-7	30		176	171	163	156	144	132	116
ALD/ALDS45-8-2	30		193	187	179	168	155	142	126
ALD/ALDS45-8	30		200	194	187	176	164	149	134
ALD/ALDS45-9-2	30		217	211	202	189	175	159	142
ALD/ALDS45-9	30		226	219	210	199	185	170	151
ALD/ALDS45-10-2	37		243	236	225	212	196	179	159
ALD/ALDS45-10	37		251	243	233	220	205	187	166
ALD/ALDS45-11-2	45		273	264	253	238	222	201	179
ALD/ALDS45-11	45		281	272	261	246	230	209	187
ALD/ALDS45-12-2	45		298	289	276	261	242	220	195
ALD/ALDS45-12	45		306	296	284	268	251	229	204
ALD/ALDS45-13-2	45		323	313	300	283	263	239	212

ALD/ALDS64



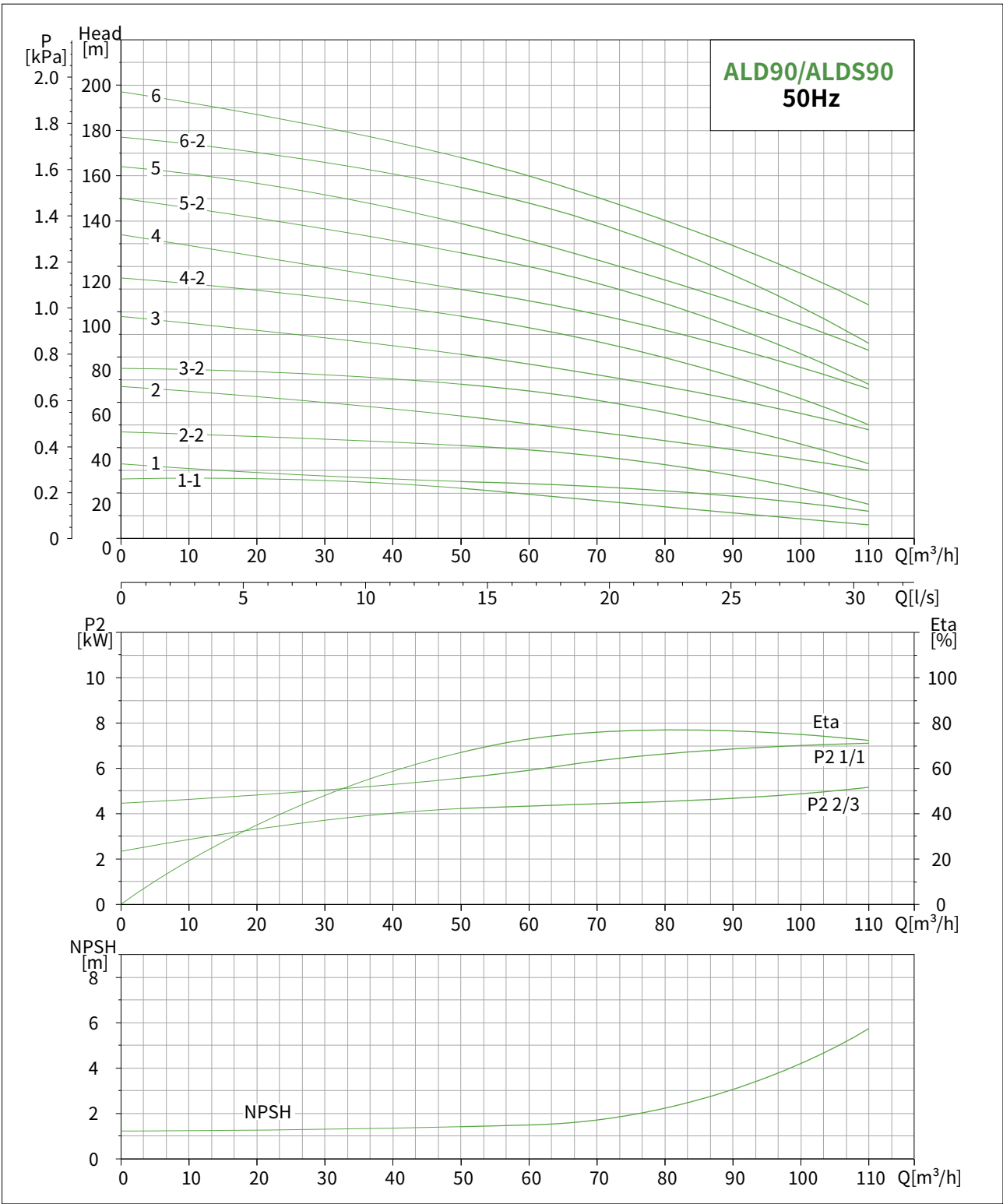
ALD/ALDS64

Installation dimension

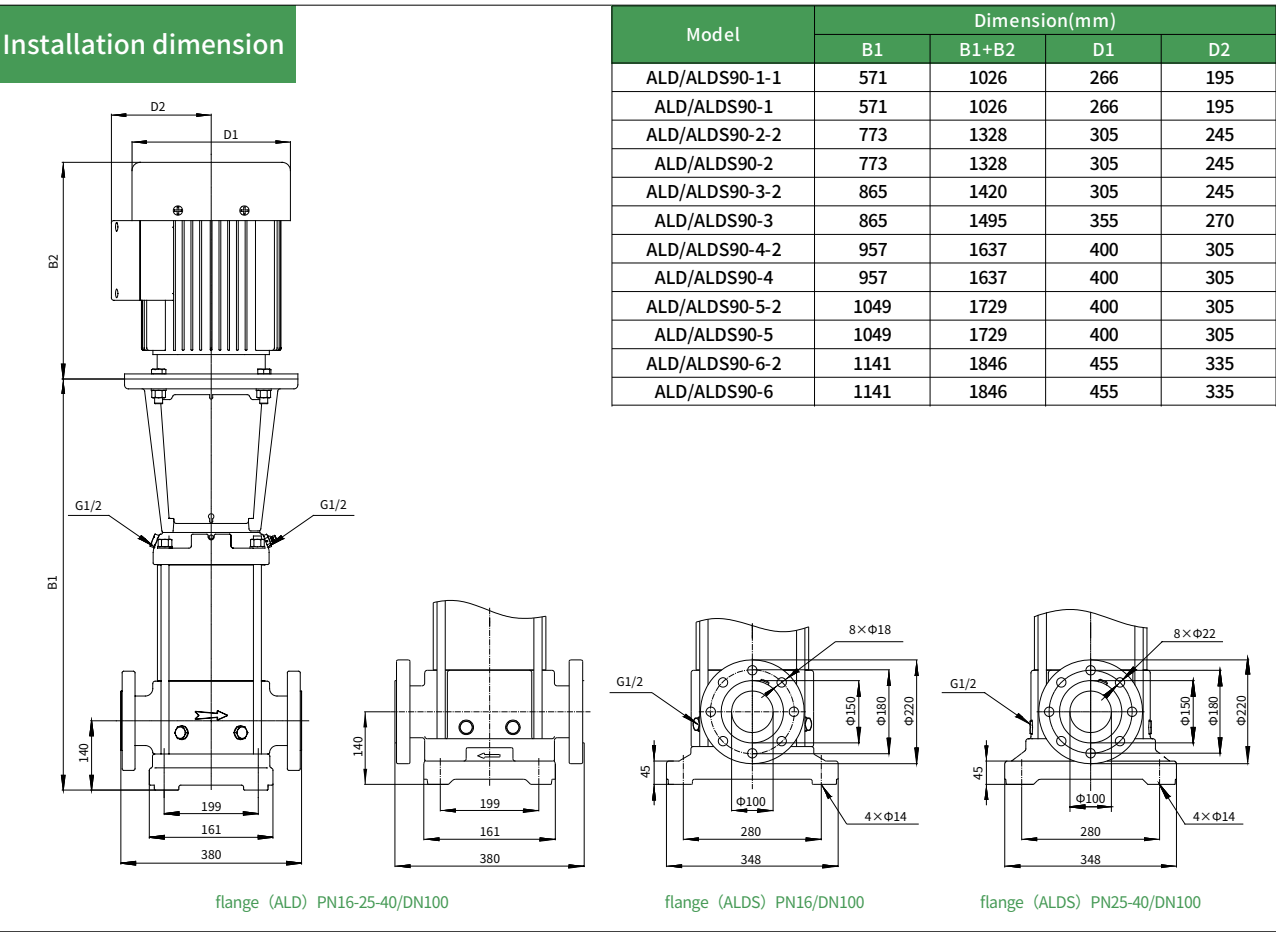


Model	Motor Power(kW)	Q[m³/h]	30	40	50	60	64	70	80
ALD/ALDS64-1-1	4	H(m)	19	18	16	14	13.2	11	8
ALD/ALDS64-1	5.5		27	25	23	21	20.2	18	15
ALD/ALDS64-2-2	7.5		39	36	33	29	27	23	17
ALD/ALDS64-2-1	11		46	44	40	36	34	30	24
ALD/ALDS64-2	11		53	51	47	43	41	37	30
ALD/ALDS64-3-2	15		66	62	56	50	47	41	32
ALD/ALDS64-3-1	15		73	69	63	57	54	48	39
ALD/ALDS64-3	18.5		80	76	70	64	61	55	46
ALD/ALDS64-4-2	18.5		92	87	80	71	67	60	47
ALD/ALDS64-4-1	22		100	94	87	78	74	67	54
ALD/ALDS64-4	22		107	101	94	85	81	74	61
ALD/ALDS64-5-2	30		121	114	105	95	89	80	64
ALD/ALDS64-5-1	30		128	121	112	102	96	87	71
ALD/ALDS64-5	30		136	129	119	109	103	94	78
ALD/ALDS64-6-2	30		150	142	131	118	111	101	81
ALD/ALDS64-6-1	37		157	149	138	125	118	108	88
ALD/ALDS64-6	37		164	156	145	132	125	115	95
ALD/ALDS64-7-2	37		179	169	156	141	133	121	99
ALD/ALDS64-7-1	37		186	176	163	148	140	128	106
ALD/ALDS64-7	45		193	183	170	155	147	135	112
ALD/ALDS64-8-2	45		207	196	182	164	155	142	116
ALD/ALDS64-8-1	45		215	203	189	171	162	149	123

ALD/ALDS90

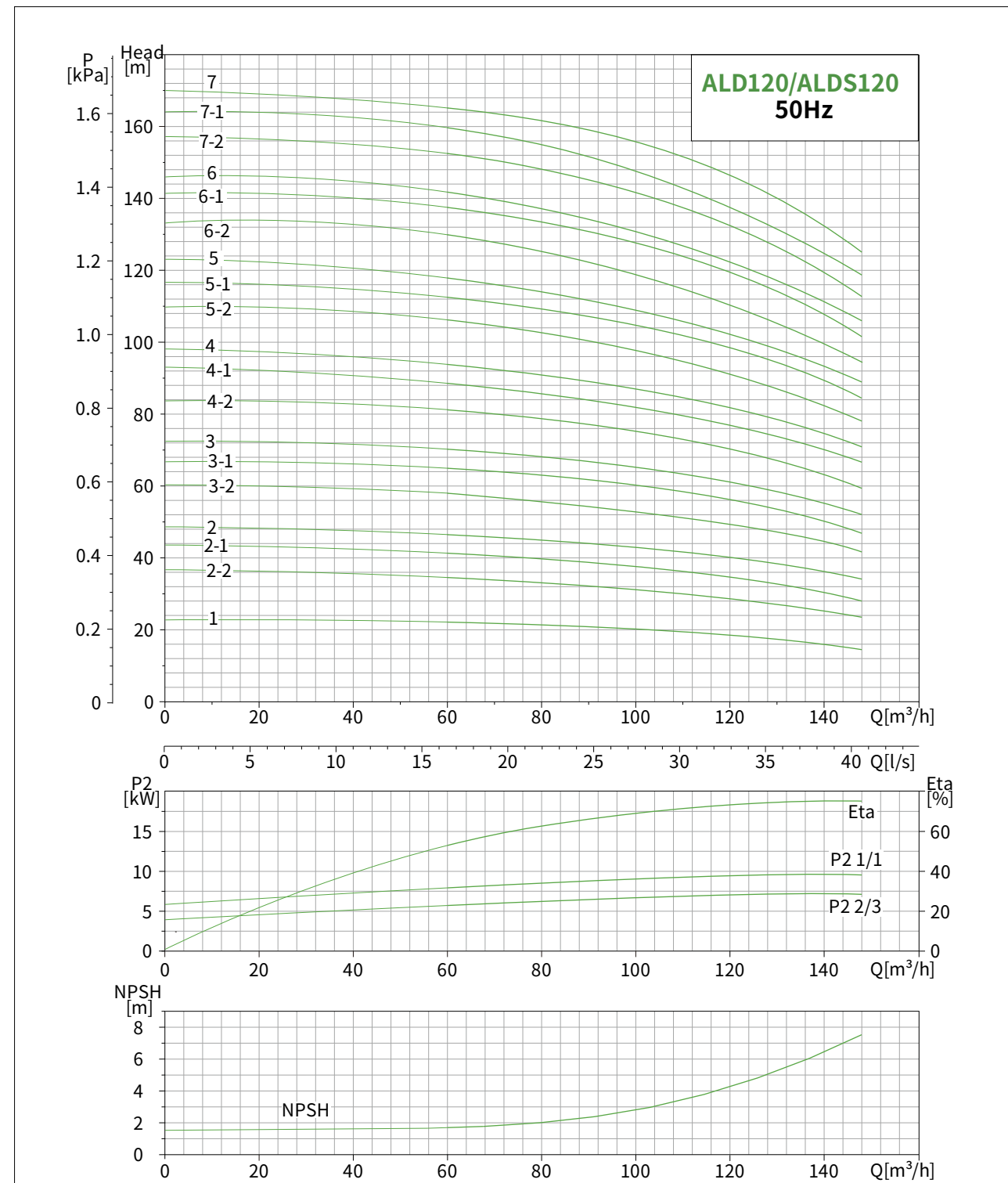


ALD/ALDS90

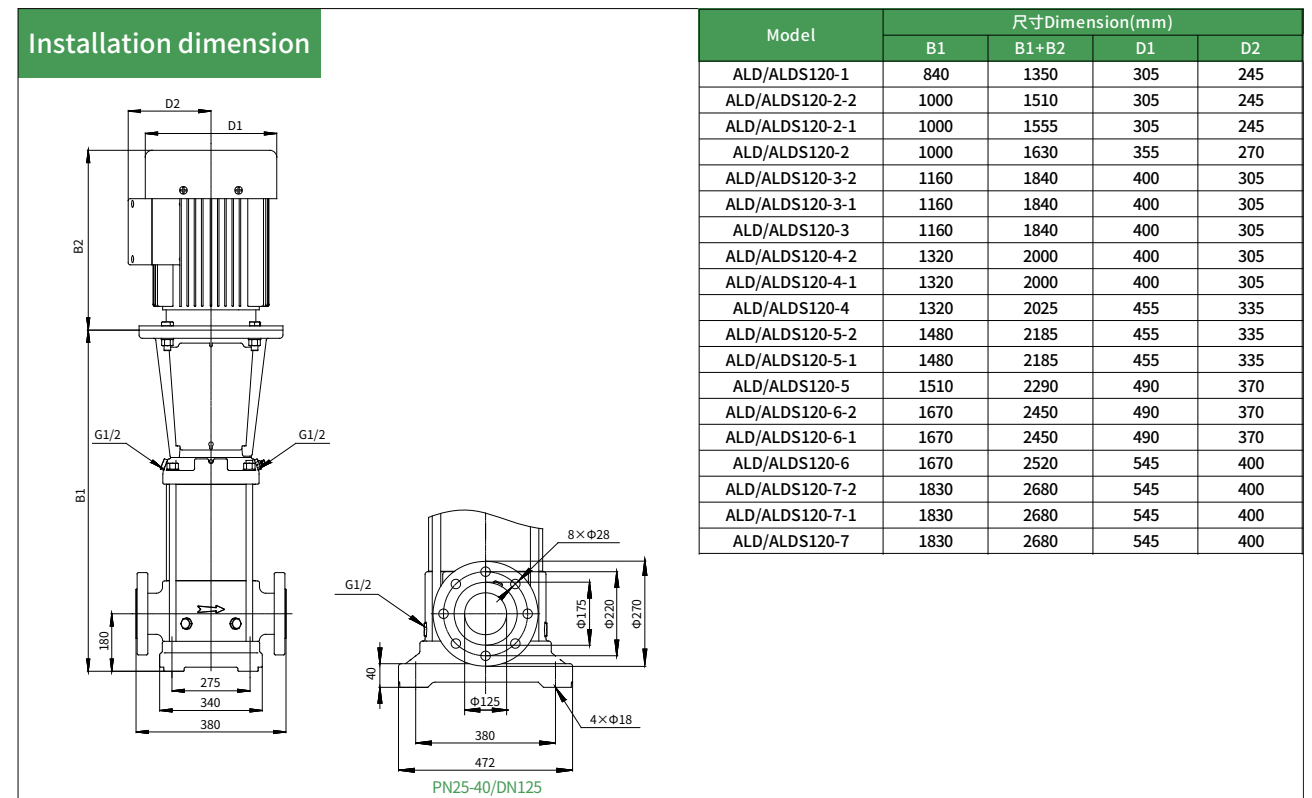


Model	Motor Power(kW)	Q[m³/h]	50	60	70	80	85	90	100	110
ALD/ALDS90-1-1	5.5	H(m)	22	19	17	16	14	13	10	6
ALD/ALDS90-1	7.5		25	24	22	21	20	19	16	12
ALD/ALDS90-2-2	11		41	39	36	32	30	28	22	15
ALD/ALDS90-2	15		53	50	47	44	41	40	36	30
ALD/ALDS90-3-2	18.5		68	65	60	55	52	49	41	32
ALD/ALDS90-3	22		81	77	72	67	64	62	55	48
ALD/ALDS90-4-2	30		98	93	87	80	75	72	62	50
ALD/ALDS90-4	30		110	105	100	92	86	84	76	66
ALD/ALDS90-5-2	37		126	120	113	104	98	93	81	68
ALD/ALDS90-5	37		139	131	124	115	110	106	94	83
ALD/ALDS90-6-2	45		155	148	139	129	122	117	102	86
ALD/ALDS90-6	45		168	160	150	141	134	130	117	103

ALD/ALDS120

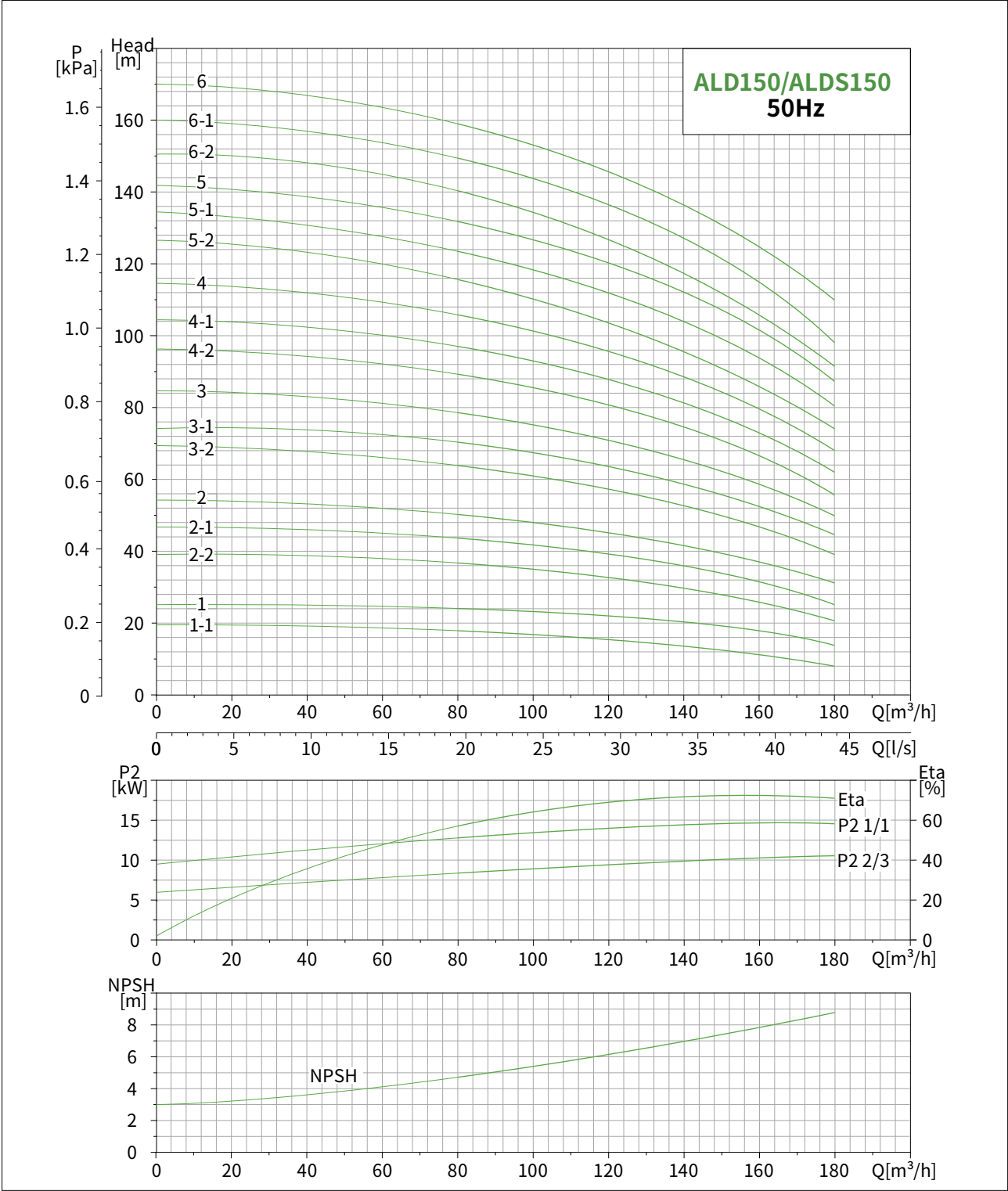


ALD/ALDS120

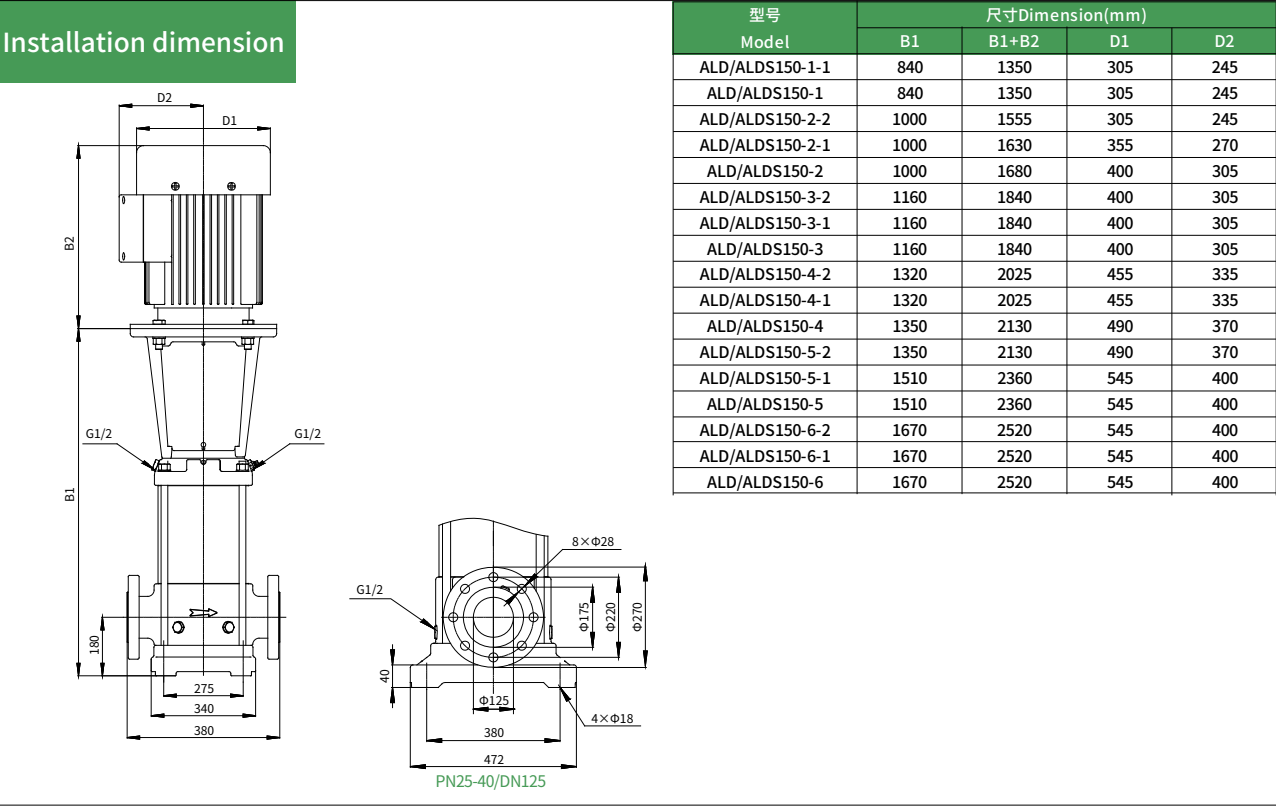


Model	Motor Power(kW)	Q[m³/h]	60	70	80	90	100	110	120	130	140	150
ALD/ALDS120-1	11	H(m)	22	21.8	21.6	21	20.5	19.5	18.5	17	16	15
ALD/ALDS120-2-2	15		34	33.6	33	31	30.5	30	28.5	27	25	24
ALD/ALDS120-2-1	18.5		41	40	39.5	38.5	37	36.5	34.5	32.5	30	27.5
ALD/ALDS120-2	22		46	45	44.5	43.5	42.4	41	40	38	36	33.5
ALD/ALDS120-3-2	30		57	56	55	53.5	52	51	49	46.5	43.5	41
ALD/ALDS120-3-1	30		64	63	62	60	58.5	57.5	55.5	52	49	46
ALD/ALDS120-3	30		69.5	68.5	67.5	66	64.4	62.5	61	57.5	54.5	51
ALD/ALDS120-4-2	37		80.5	79	78	76	73.5	72	69	66	61.5	58
ALD/ALDS120-4-1	37		87	86	84.5	82	80	78	76	72	68	64.5
ALD/ALDS120-4	45		92.5	91	90	88	85.5	83	81	77	73	68.5
ALD/ALDS120-5-2	45		104.5	103	101	99	96	93	90	85.5	80.5	75.5
ALD/ALDS120-5-1	45		110.5	109	107.5	105	102	100	97	92	86.5	83
ALD/ALDS120-5	55		115.5	114	113	110	107.5	104.5	101.5	96	91	86
ALD/ALDS120-6-2	55		128	125.5	123	121	117.3	113.5	110	104.5	98.5	92.5
ALD/ALDS120-6-1	55		134	132	130.5	127	124	121	118	111	105	100
ALD/ALDS120-6	75		139	137	135	132	128.8	126	123	116	110	104
ALD/ALDS120-7-2	75		151	148	145.5	143	138.6	134	130	123.5	116.5	109
ALD/ALDS120-7-1	75		156.5	154	152	148.5	144.5	141	137.5	130	123	116.5
ALD/ALDS120-7	75		162.5	160.5	158.5	155	151	148	145	137	129	123

ALD/ALDS150

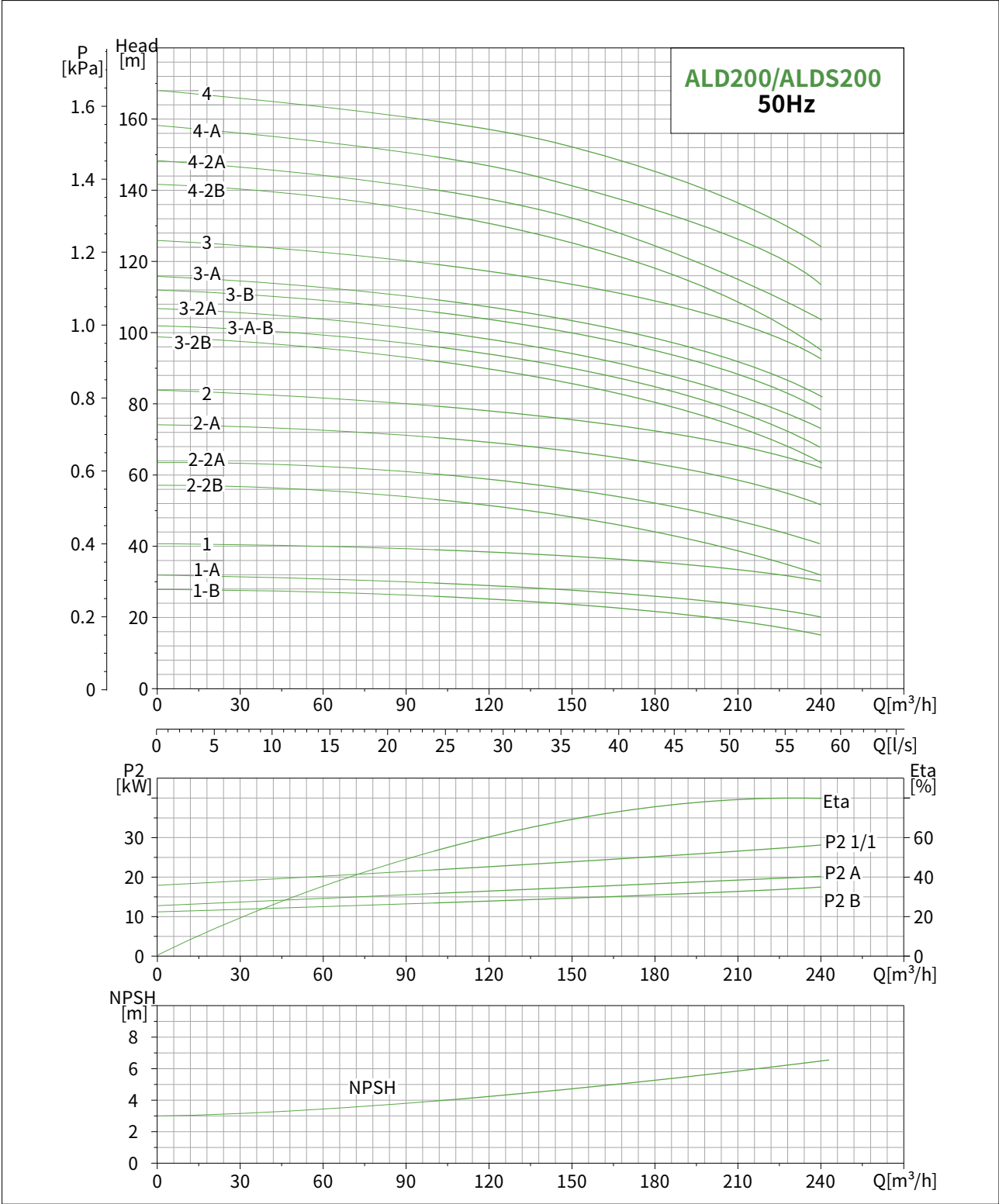


ALD/ALDS150



Model	Motor Power(kW)	Q[m³/h]	80	90	100	110	120	130	140	150	160	170	180
ALD/ALDS150-1-1	11	H(m)	18.3	17.8	17.3	17	16	15	14	12.5	11	10	8.5
ALD/ALDS150-1	15		24	23	22.5	22	21.5	20.5	20	18.5	17	16	15
ALD/ALDS150-2-2	18.5		37	35.5	34	33	32	31	29	27.5	26	23	21
ALD/ALDS150-2-1	22		44.3	43	42	40	39	38.5	37.5	35	33	30	27
ALD/ALDS150-2	30		50	49	48	47	45.5	44	42	40	37	34	32
ALD/ALDS150-3-2	30		63.5	61	59	57.5	56	54.5	53	49	45.5	42	39
ALD/ALDS150-3-1	37		70	68	67	65	63	62	60	56	53	49	45
ALD/ALDS150-3	37		78	76.5	75	73	70.5	68	66	63	59	55	50.5
ALD/ALDS150-4-2	45		89	87	84	81.5	79	77	74.5	70.5	65.5	60	56
ALD/ALDS150-4-1	45		96.5	94	91.5	89	86.5	84	81.5	77	72.5	67	62
ALD/ALDS150-4	55		104	102	100	97	95	91	88	84	79.5	74	68
ALD/ALDS150-5-2	55		115.5	112	109	106	102.5	100	97	92	86	79	73.5
ALD/ALDS150-5-1	75		122.5	119.5	117	113.5	111.5	107.5	104.5	99	93.5	87	80
ALD/ALDS150-5	75		130	127.5	125	121	119	115	111.5	106.5	101	94.5	86.5
ALD/ALDS150-6-2	75		140	137	133	130	126	121	118	112	106	98	91
ALD/ALDS150-6-1	75		148.5	145	141.7	137.5	135	131	127	120.5	114.5	106.5	97.5
ALD/ALDS150-6	75		157	153	149	145	142	139.5	137	130	123.5	116	109

ALD/ALDS200



ALD/ALDS200

