

LAIKO



ALS(T)

**WATER TREATMENT
SPECIAL PUMP**

LAIKO

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WATER TREATMENT SPECIAL PUMP

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.

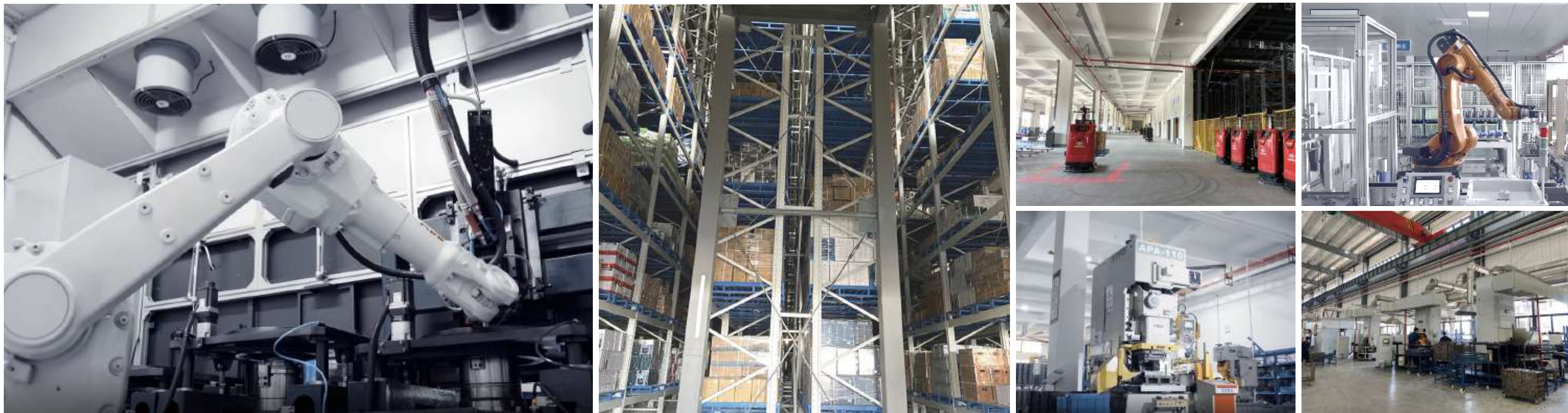
The second-generation green intelligent factory of Industry 4.0 standard covers an area of nearly 200 acres, with an annual output of over 7 million units and a total investment of over 1 billion yuan.

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.



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

ALS / ALS(T)

Water Treatment Special Pump



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

LAIKO Laiko Pump (Zhejiang) Co., Ltd.

ALS/ALS(T) Water Treatment Special Pump

The ALS is a non-self-priming vertical multi-stage centrifugal pump (hereinafter referred to as "the pump"), which features high efficiency, low noise, resistance to mild corrosion, compact structure, attractive appearance, small size, light weight, convenient operation and maintenance, and reliable sealing performance.

The product is applicable to liquids with low viscosity, neutral property, non-explosiveness and free of solid particles or fibers. The conveyed liquid shall not be chemically corrosive to the materials of the pump.

Medium temperature: common temperature type: -15°C~+70°C

Flow range: 0.4~22m³/h

Maximum pressure: 25bar

Medium pH value: neutral

Maximum ambient temperature: +40°C

Maximum altitude: 1000m

Minimum inlet pressure: According to the NPSH curve, the minimum safe head is 0.5 meters.

APPLICATION FIELD

Ultrafiltration System

Reverse Osmosis System

Distillation System

Separator

Swimming Pool

TECHNICAL DATA

Flow range: 0.4~22m³/h

Medium pH value: neutral

Maximum ambient temperature: +40°C

Maximum altitude: 1000m

Purpose and Application Scope

The ALS is non-self-priming vertical multi-stage centrifugal pump(hereinafter referred to as pump), characterizing by high efficiency, low noise, light corrosion resistance, compact appearance, small volume, light weight, convenient use and maintenance, and reliable sealing performance.

1. Purpose:
Suitable for conveying non-corrosive liquids of low viscosity, non-flammable, explosive and vaporizing, without solid particles and fibers.
Water treatment: ultrafiltration system, reverse osmosis system, distillation system, separator, swimming pool and other water treatment systems.
2. Application Scope
Medium temperature: standard temperature type: -15℃~+70℃
Flow range: 0.4~22m³/h
Maximum pressure: 25bar
Medium pH Value: neutral
Maximum ambient temperature: +40℃
Maximum altitude: 1000m
Minimum inlet pressure: According to the NPSH curve, the minimum safe head is 0.5m.

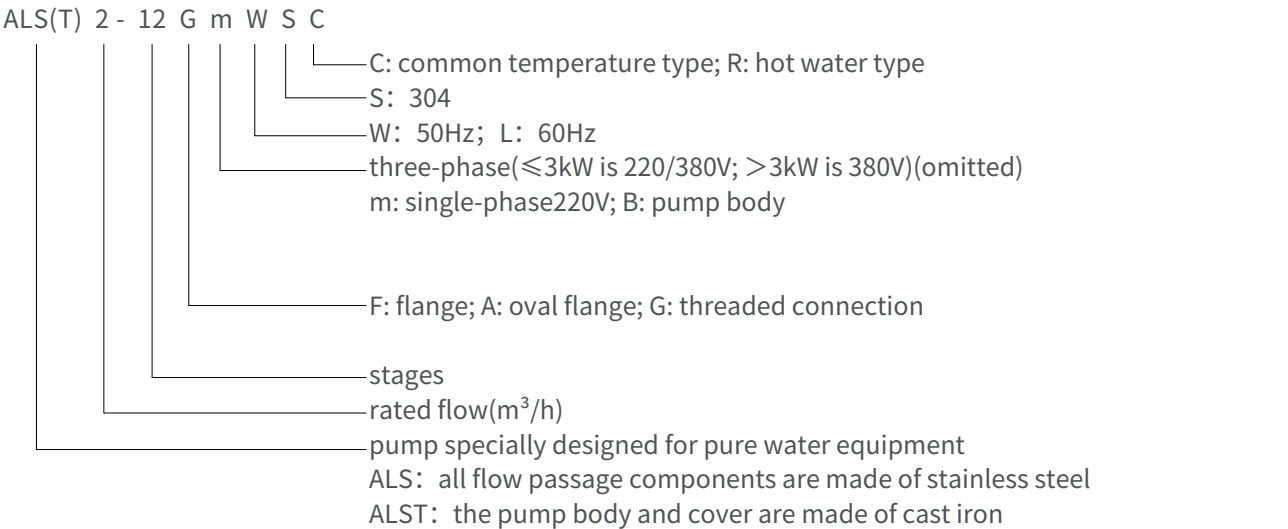
Structure Description

The pump is mainly composed of motor, motor base, guide body, impeller, pump cylinder, pump body, pump shaft, mechanical seal and other parts.
The key components of the pump, such as the diffuser, impeller, pump barrel and pump shaft, are all made of stainless steel.
The pump shaft seal is a single-end face mechanical seal, the grinding block is graphite/hard alloy, and the support inside the guide body adopts tung carbide.

Structural Features

The key flow passage components adopt stainless steel stamping, laser welding and other processes.
Products have the characteristics of energy-saving, efficient, low noise, environmental protection, compact structure, beautiful appearance and so on.

Model Description

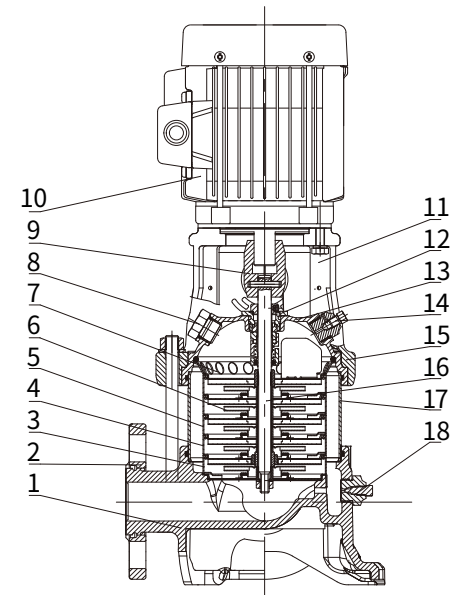


Performance Form

型号	额定流量	额定扬程	功率	螺纹/法兰
Model	Rated flow[m³/h]	Rated head[m]	Power[kW]	Threaded/Flange
2-9	2	68.5	1.1	G11/4
2-11	2	82	1.1	G11/4
2-13	2	98	1.5	G11/4
2-15	2	112	1.5	G11/4
2-18	2	136	2.2	G11/4
2-22	2	165	2.2	G11/4
4-12	4	96	2.2	G11/4
4-14	4	114	3	G11/4
4-16	4	129	3	G11/4
4-19	4	155	4	G11/4
4-22	4	177	4	G11/4
8-12	8	116	4	DN40
8-14	8	138	5.5	DN40
8-16	8	157	5.5	DN40
8-18	8	180	7.5	DN40
12-9	12	104	5.5	DN50
12-12	12	138	7.5	DN50
12-14	12	160	11	DN50
12-15	12	171	11	DN50
15-10	16	120	11	DN50
15-12	16	142	11	DN50
15-14	16	166	11	DN50
15-16	16	191	15	DN50

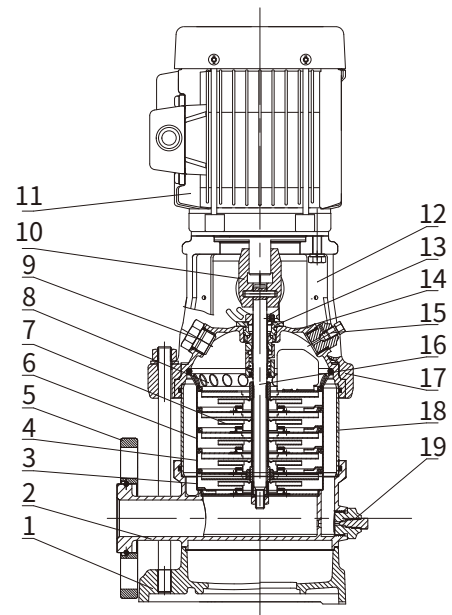
Structure Diagram

ALST 2 4



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-QT400-18	ASTMA536 60-40-18
3	首级导流体 First diffuser	不锈钢Stainless steel	GB/T 20878-06Cr19Ni10	AISI304
4	带轴承导流体 Diffuser with bearing	不锈钢Stainless steel	GB/T 20878-06Cr19Ni10	AISI304
5	中导流体 Medium diffuser	不锈钢Stainless steel	GB/T 20878-06Cr19Ni10	AISI304
6	叶轮 Impeller	不锈钢Stainless steel	GB/T 20878-06Cr19Ni10	AISI304
7	末级导流体 Final diffuser	不锈钢Stainless steel	GB/T 20878-06Cr19Ni10	AISI304
8	注水螺塞 Filling plug	不锈钢Stainless steel	GB/T 20878-06Cr19Ni10	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/T 20878-06Cr19Ni10	AISI304
12	机械密封 Mechanical seal	/	/	/
13	泵盖 Pump cover	铸铁Cast iron	GB/T9439-HT200	ASTM25B
14	放气螺塞组件 Vent plug assembly	不锈钢Stainless steel	GB/T 20878-06Cr19Ni10	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/T 20878-06Cr19Ni10	AISI304
17	泵筒 Pump barrel	不锈钢Stainless steel	GB/T 20878-06Cr19Ni10	AISI304
18	放水螺塞组件 Discharge bolt assembly	不锈钢Stainless steel	GB/T 20878-06Cr19Ni10	AISI304

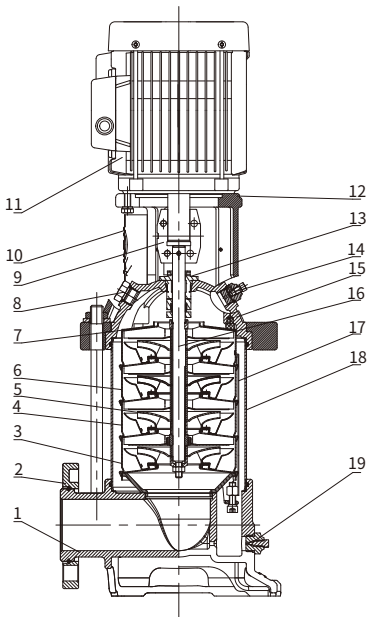
ALS 2 4



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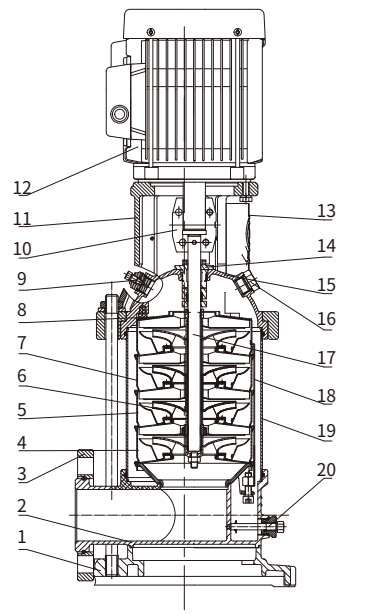
Structure Diagram

ALST 8 12 15



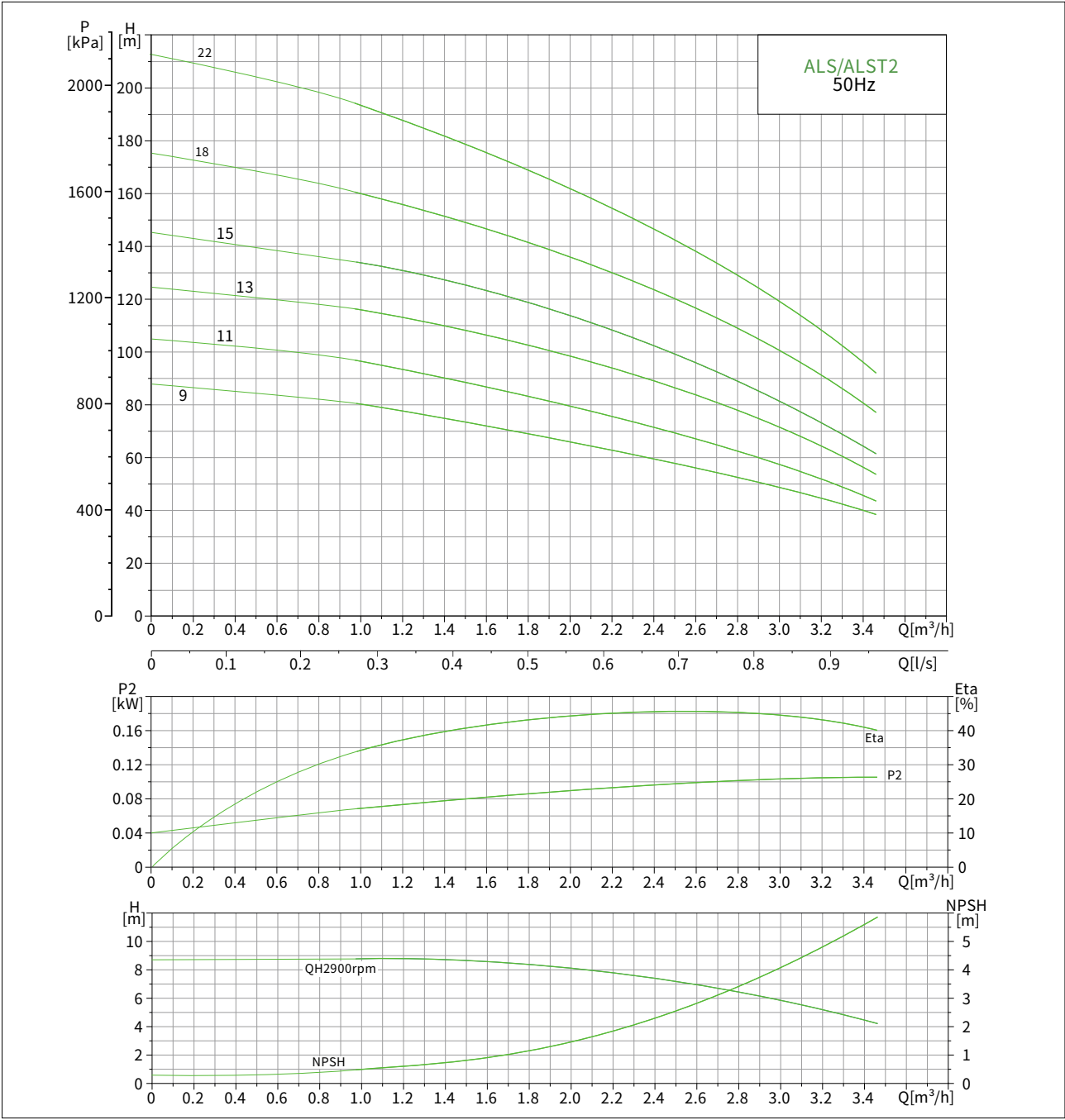
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19	放水螺塞组件 Discharge bolt assembly	不锈钢Stainless steel	GB/T 20878-06Cr19Ni10	AISI304

ALS 8 12 15



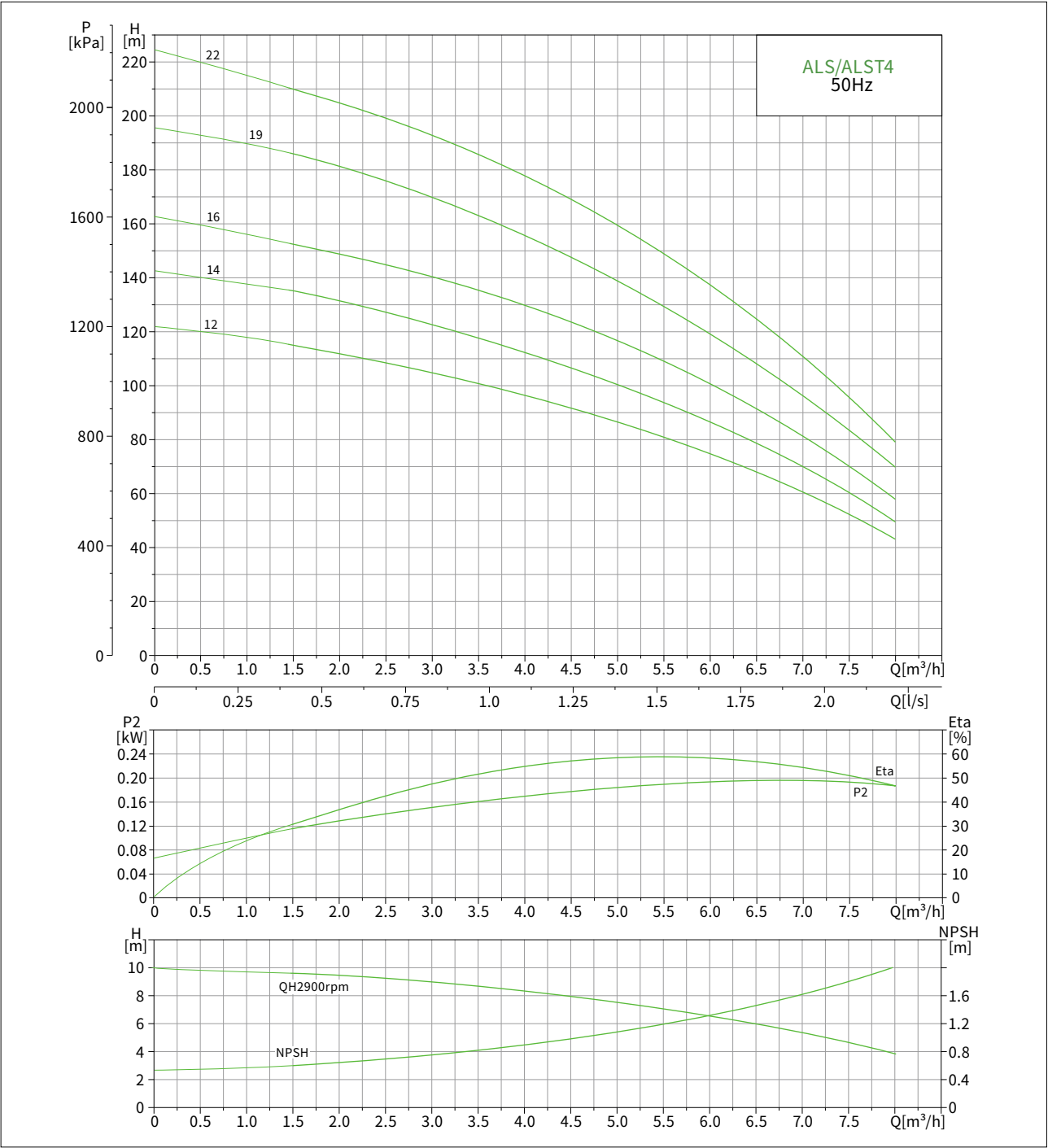
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Performance Curves



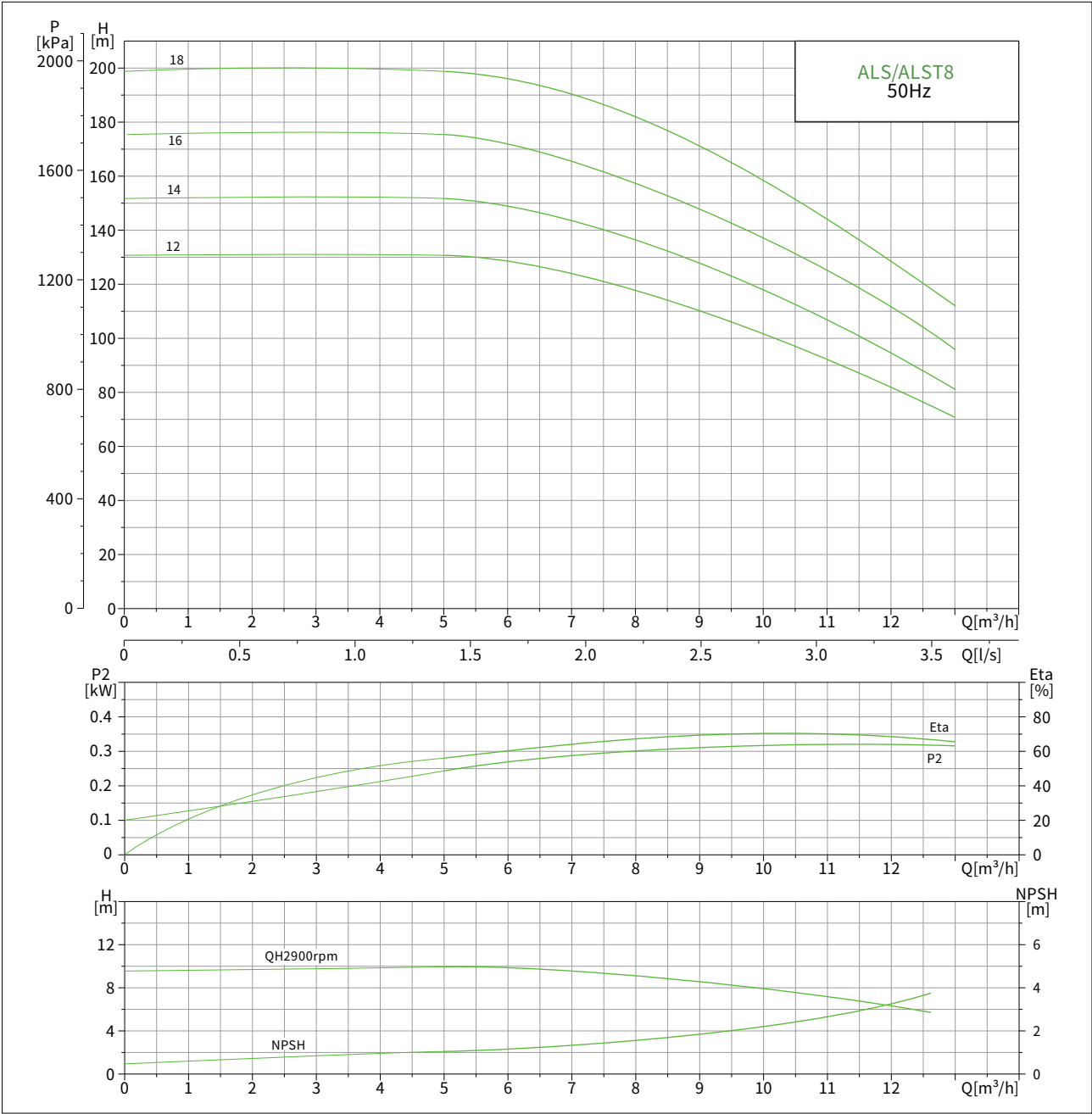
Model	Power(kW)	Q[m³/h]	1	1.2	1.6	2	2.5	2.8	3.2	3.5
ALS/ALST2-9	1.1	H(m)	80	78	73	68.5	60	54	45	37
ALS/ALST2-11	1.1		98	95	89	82	71.5	64	54	44
ALS/ALST2-13	1.5		116	114	106	98	86.5	78	65	52
ALS/ALST2-15	1.5		134	130	123	112	98	90	73	60
ALS/ALST2-18	2.2		161	157	148	136	122	108	91	76
ALS/ALST2-22	2.2		197	192	180	165	145	130	110	90

Performance Curves



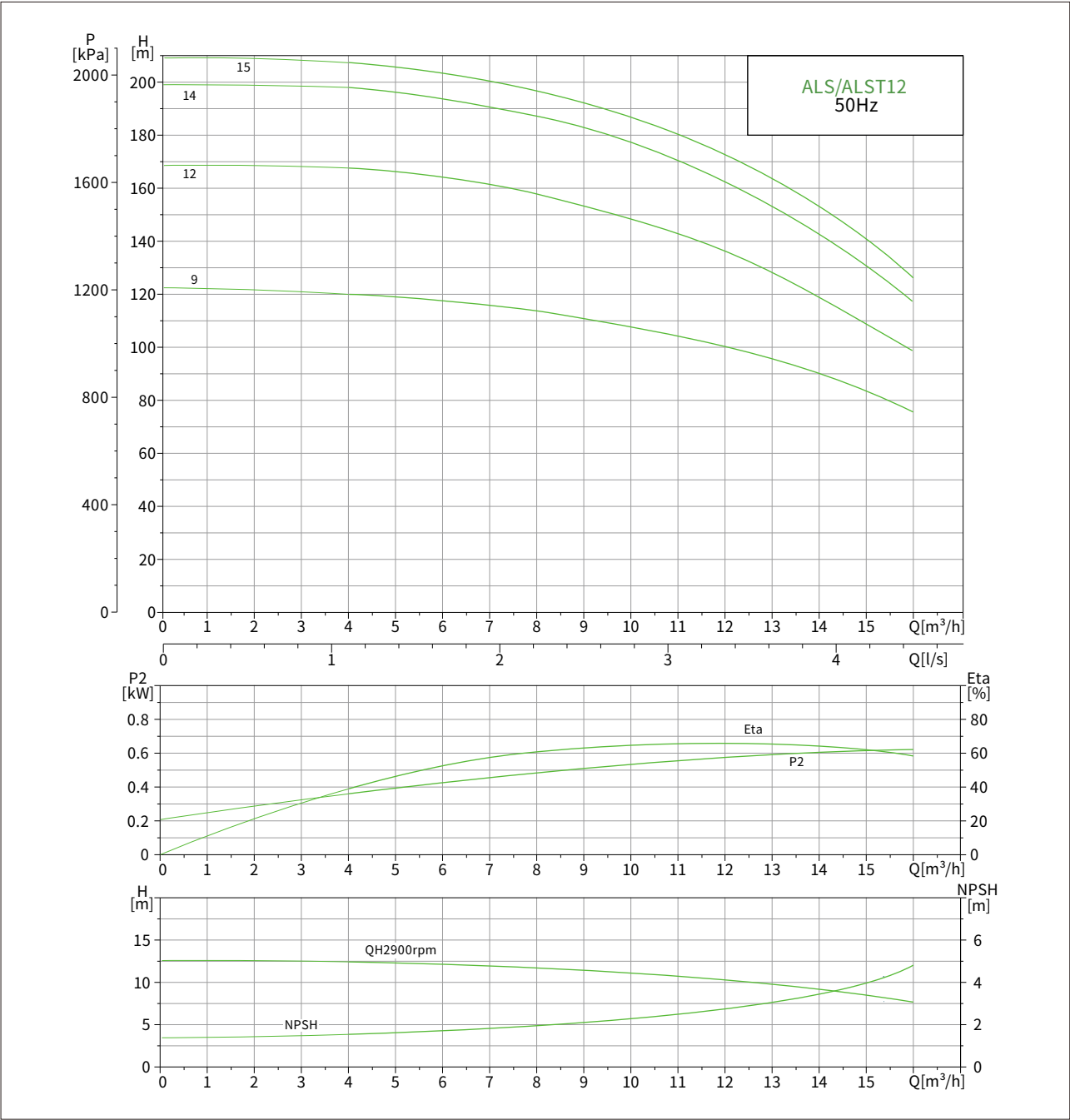
Model	Power(kW)	Q[m³/h]	1.5	2	3	4	5	6	7	8
ALS/ALST4-12	2.2	H(m)	114	108	104	96	85	75	57	41
ALS/ALST4-14	3		136	126	122	114	101	90	69	48
ALS/ALST4-16	3		152	144	140	129	115	102	78	55
ALS/ALST4-19	4		183	171	168	155	137	123	95	67
ALS/ALST4-22	4		211	200	192	177	160	139	108	79

Performance Curves



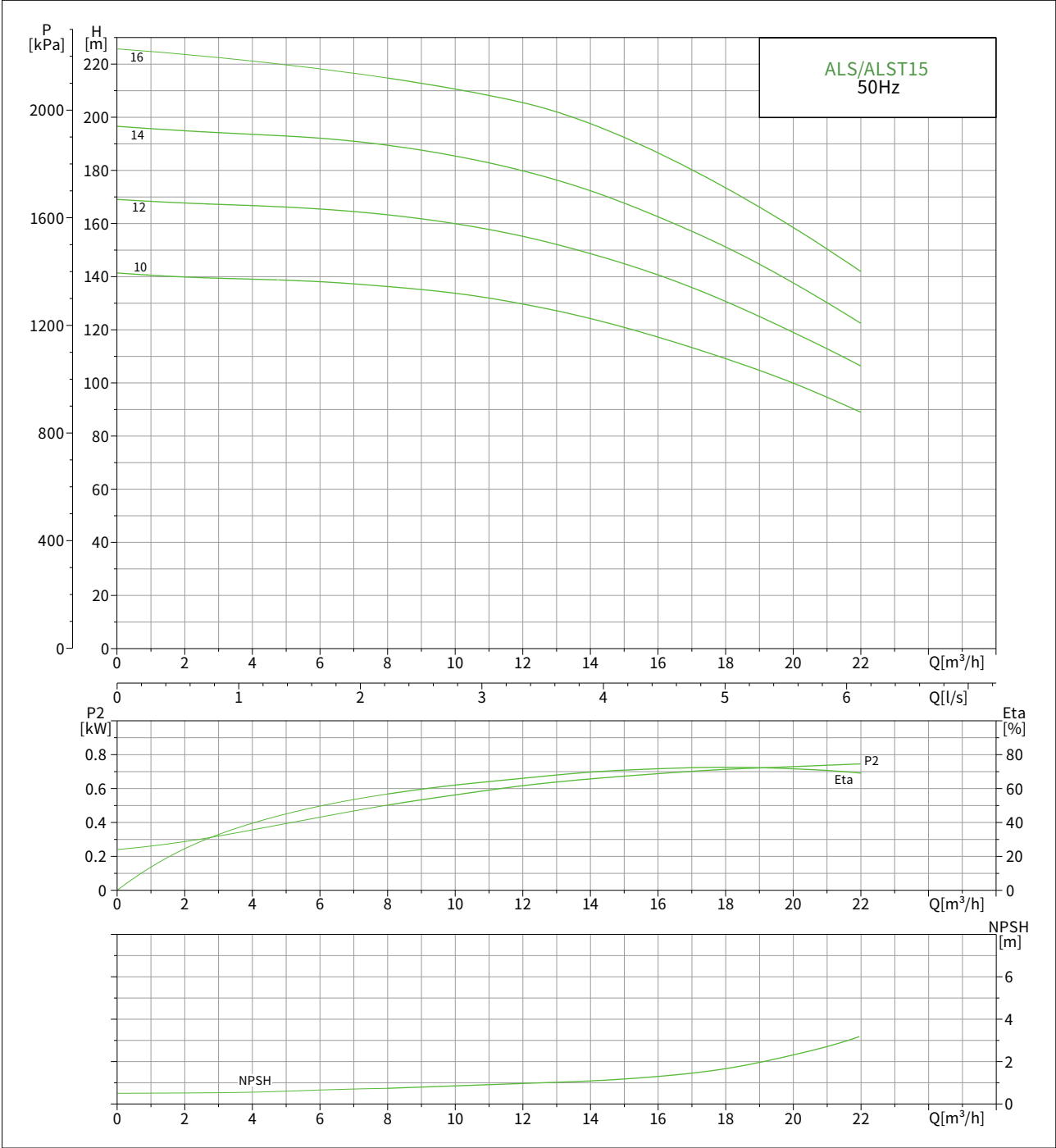
Model	Power(kW)	Q[m³/h]	2	4	6	8	10	12
ALS/ALST8-12	4	H(m)	130	128	125	116	108	95
ALS/ALST8-14	5.5		152	150	148	138	130	110
ALS/ALST8-16	5.5		173	171	169	157	148	126
ALS/ALST8-18	7.5		195	193	186	180	164	135

Performance Curves



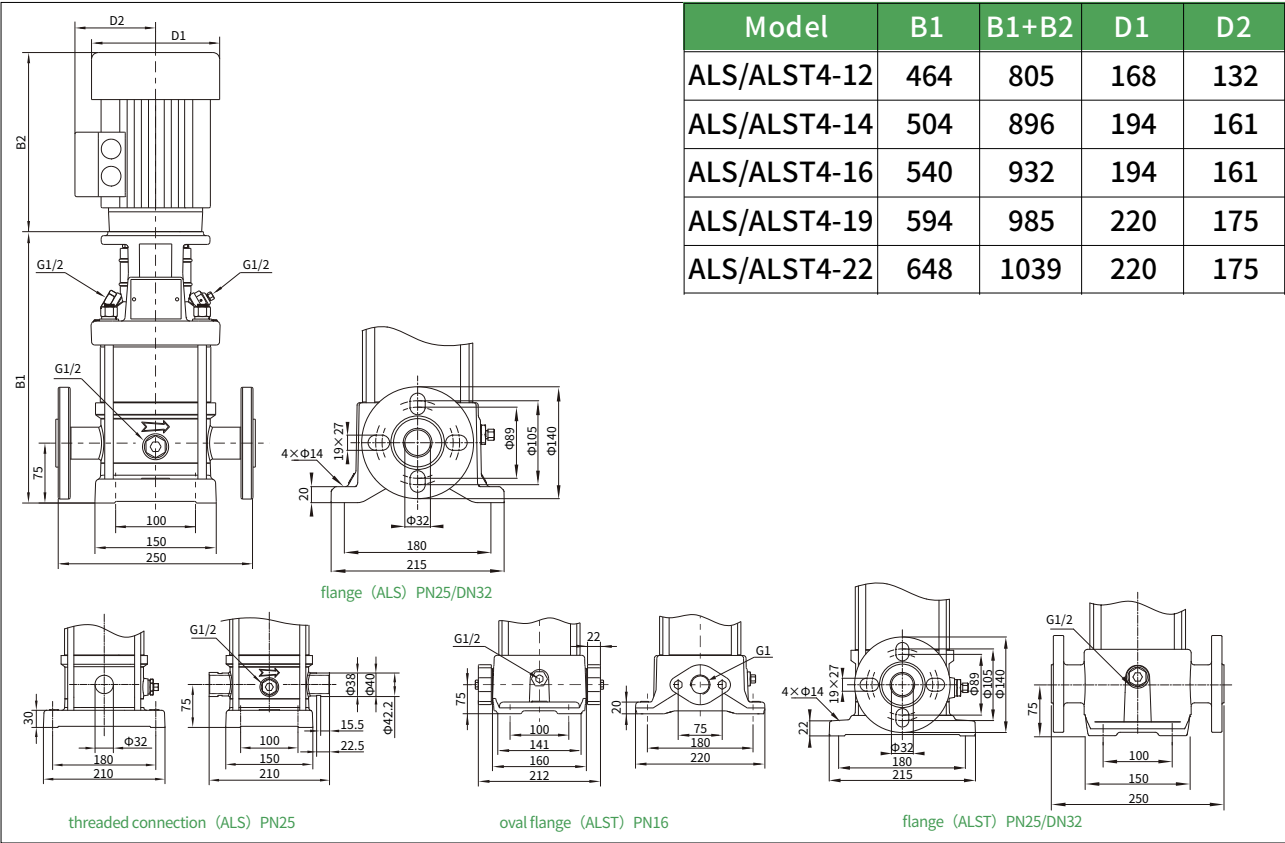
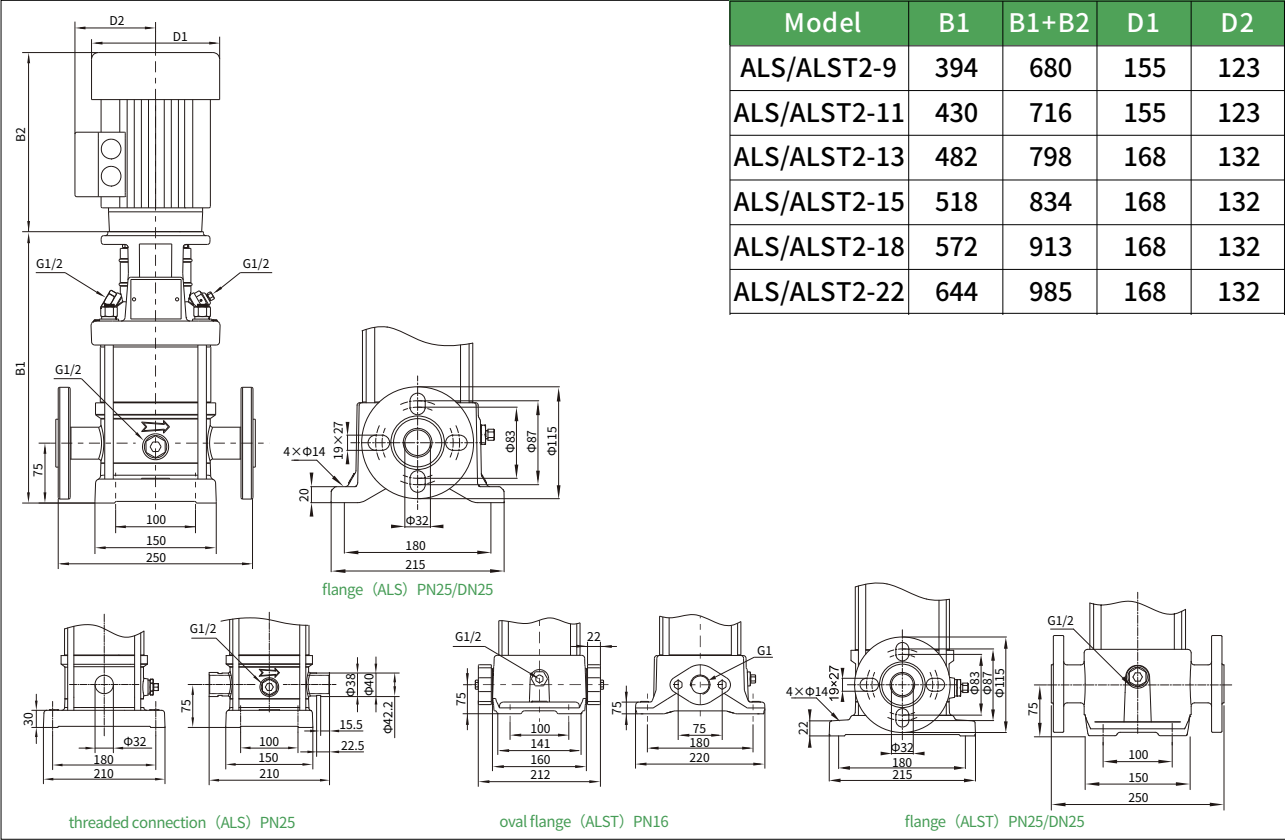
Model	Power(kW)	Q[m³/h]	4	6	8	10	12	14	16
ALS/ALST12-9	5.5	H(m)	120	118	115	108	104	84	76
ALS/ALST12-12	7.5		165	164	157	148	138	122	97
ALS/ALST12-14	11		194	192	185	178	160	142	115
ALS/ALST12-15	11		207	205	197	190	170	153	122

Performance Curves

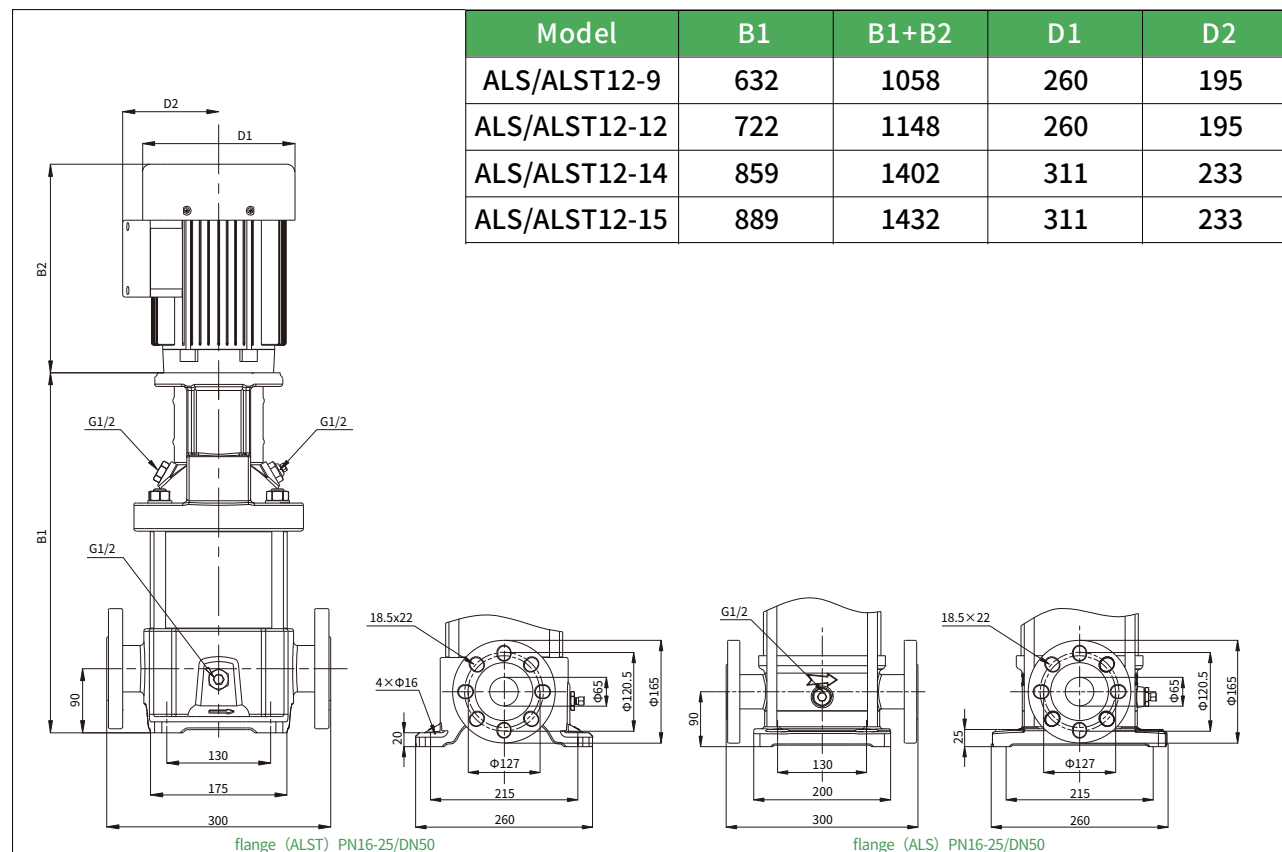
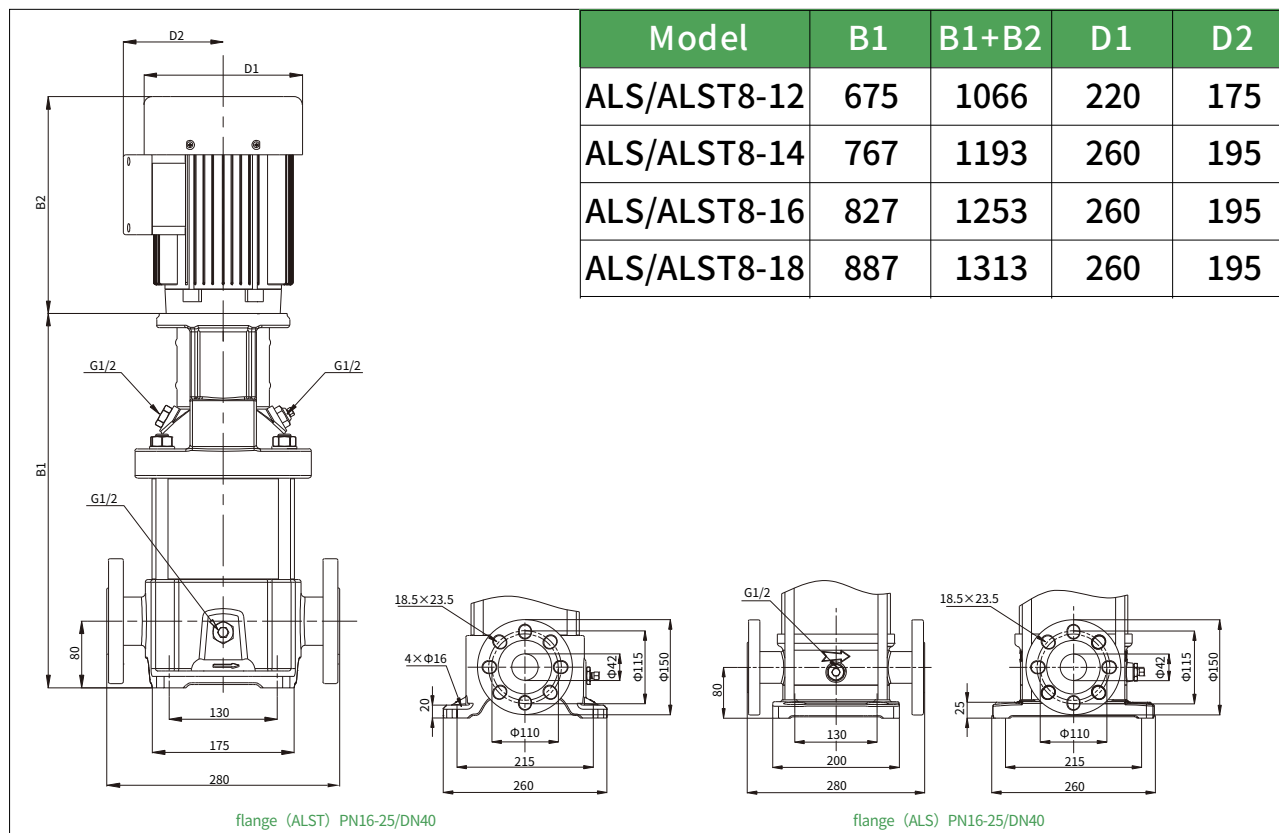


Model	Power(kW)	Q[m³/h]	8	9	12	15	18	20	22
ALS/ALST15-10	11	H(m)	138	136	129	120	109	100	89
ALS/ALST15-12	11		165	162	155	142	130	119	107
ALS/ALST15-14	11		190	188	180	166	151	138	122
ALS/ALST15-16	15		217	214	205	191	174	159	141

Installation Dimension



Installation Dimension



Installation Dimension

