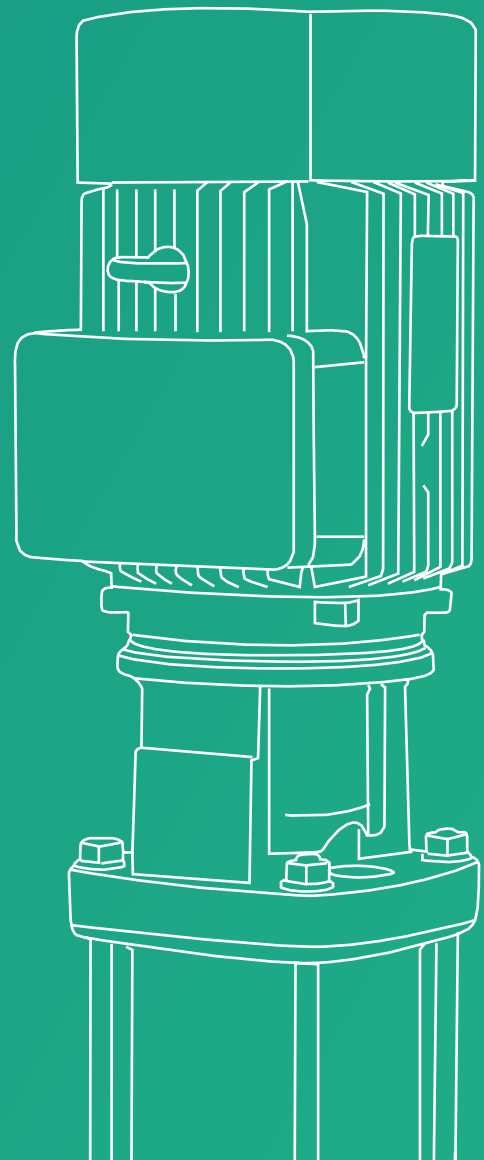


**LAIKO**

# **ALD VERTICALMULTISTAGE CENTRIFUGAL PUMP**

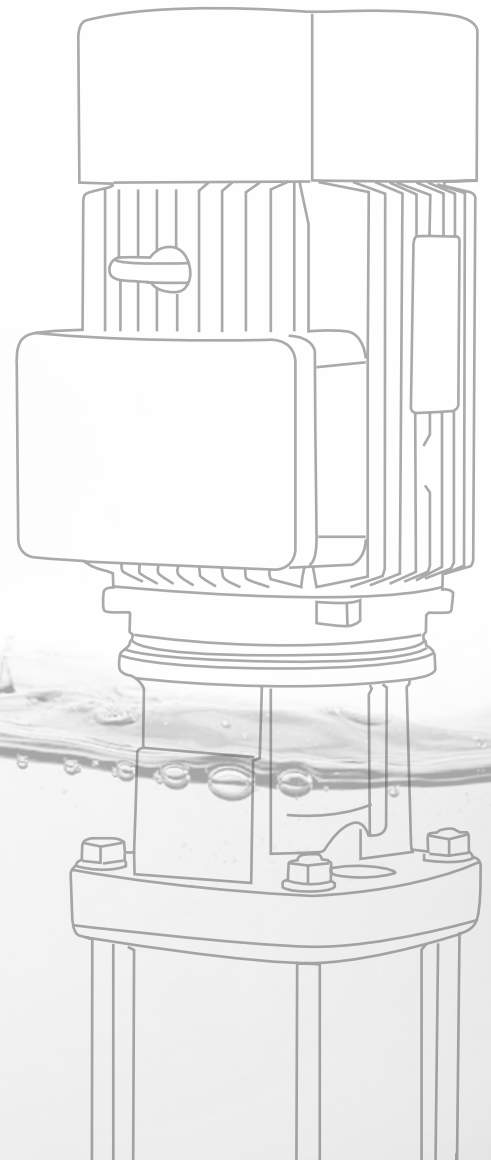


Superior in Pump  
Superior in Energy-Saving



**LAIKO**

# ALD Verticalmultistage centrifugal pump Instructions



Superior in Pump  
Superior in Energy-Saving

Laiko Pump (Zhejiang) Co., Ltd. is a brand under Zhejiang Dayuan Pumps Industry Co., Ltd. (stock code 603757), specializing in the development and manufacture of energy-saving pumps and systems, covering the fields of construction, municipal water supply, sewage treatment, fire-fighting and industrial application.

Our products range from vertical multistage pumps, vertical in-line pumps, horizontal multistage pumps, hot and cold circulation pumps, single-stage centrifugal pumps, standard centrifugal pumps, stainless steel horizontal single-stage centrifugal pumps, submersible pumps, submerged multistage centrifugal pumps and so on.

Standard and advanced R&D development, production, sales and service system, are the core competence of LAIKO and lay the solid foundation for sustainable development. Reliable product quality and attentive after-sales service helped us gained a wide reputation.

Going forward LAIKO will adhere to the concept of scientific and technological innovation, and keep exploring and being a leading sustainable company in the industry!





## R&D

Our company owns more than 300 core patented technologies, and our products have won the honor of Zhejiang famous brand products, Zhejiang export famous brand etc. Our comprehensive strength ranks at the forefront of the industry!



**APPLICATION**

- High-rise building water supply
- Factory water filtration and transportation
- Pipeline pressurization and equipment supporting system
- Washing and cleaning system
- Boiler feed water and cooling water circulation
- HVAC system and ultra-filtration system
- Food & beverage factory and fire protection system

**FEATURES**

Low viscosity, non-flammable, non-explosive, easily vaporized liquid containing neither solid particles nor fibers, the liquid must not have chemical reaction on the pump material, when the density and viscosity of the conveying liquid is greater than water, please contact us for high-power motor.

Liquid temperature: -20°C~70°C (Common); -15°C ~ 120°C(optional)

Flow range: 0.4 ~240m<sup>3</sup>/h

Liquid pH value: 3~9

Maximum ambient temperature:+40°C

Peak working pressure (PWP): 33bar

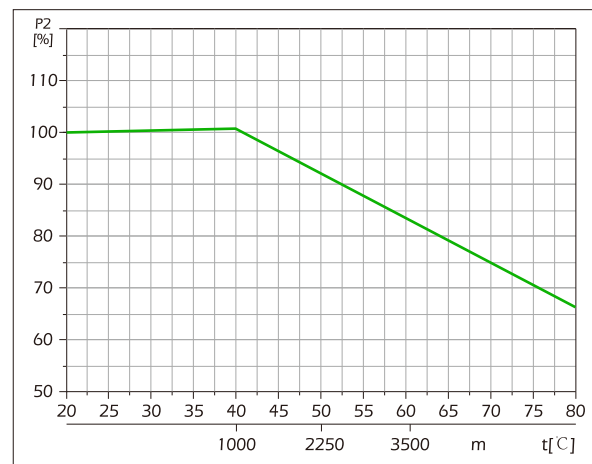
Highest altitude:1000m

**MOTOR**

- Fully enclosed standard air-cooled two-stage standard motor
- Protection class: IP55
- Insulation class: F
- Insulation class: F

**OPERATING ENVIRONMENT**

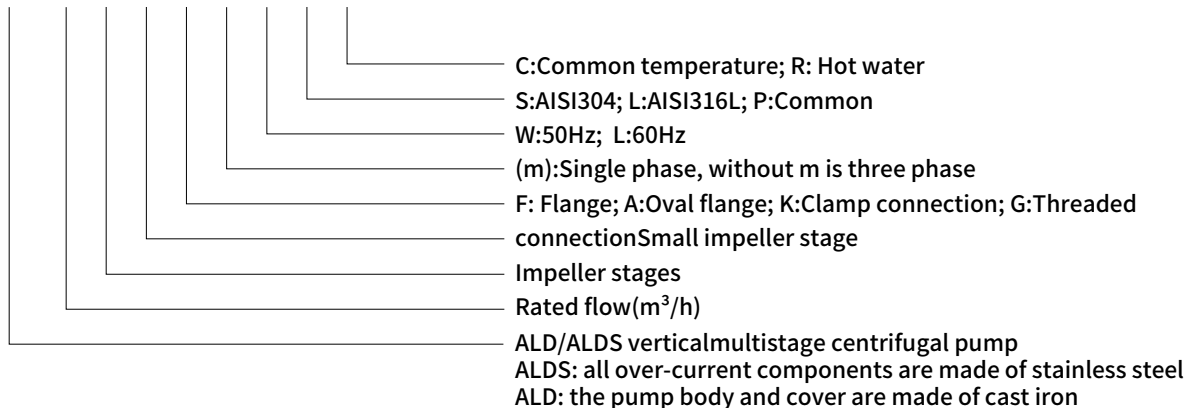
The highest operating temperature of the pumps is +40°C If the pumps are used at a temperature above +40 °C, or their motors are installed at an altitude higher than 1000m, the output power of the motors will drop. See the figure below. In this circumstance, motors with larger output power are needed.



As shown above, when the pump is installed above 3500 meters above sea level, P2 is expected to drop to around 88%: when the ambient temperature reaches 70°C, P2 will drop to about 78%.

**MODEL INSTRUCTION**

ALDS 32 -10 - 3 - F - S - W - S - C



**MINIMUM INLET PRESSURE-NPSH**

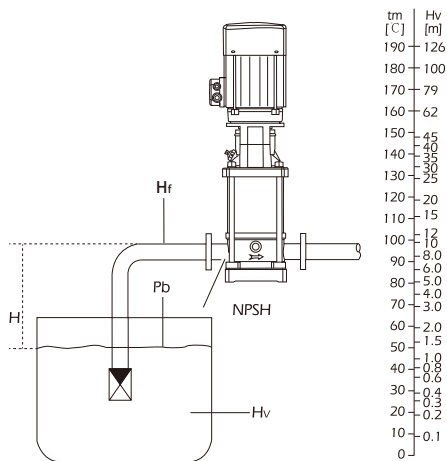
Calculation of the inlet pressure "H" is recommended in these Situations:

- The liquid temperature is high
- The flow is significantly higher than the rated flow.
- Water is drawn from depths
- Water is drawn through long pipes
- Inlet conditions are poor

To avoid cavitation, make sure that there is a minimum pressure on the suction side of the pump. The maximum suction lift "H" in meters head can be calculated as follows:

<b>H</b>	<b>=Pb*10.2-NPSH-Hf-Hv-Hs</b>
<b>Pb</b>	=Barometric pressure in bar.(Barometric pressure can be set to 1 bar).In closed systems, Pb indicates the system pressure in bar.
<b>NPSH</b>	=Net Positive Suction Head in meters head. (To be read from the NPSH curve at the highest flow the pump will be delivering.)
<b>Hf</b>	=Friction loss in suction pipe in meters head.(At the highest flow the pump will be delivering.
<b>Hv</b>	=Vapor pressure in meters head.(to be read from the vapor pressure scale. "Hv" depends on the liquid temperature "tm")
<b>Hs</b>	=Safety margin=minimum 0.5 meters head

If the "H" calculated is positive, the pump can operate at a suction lift of maximum "H" meters head.  
 If the "H" calculated is negative, an inlet pressure of minimum "H" meter-head is required.



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 INLET PRESSURE**

The Following table shows the maximum permissible inlet pressure.

However, the current inlet pressure + the pressure against a closed valve must always be lower than the Max. permissible operating pressure. If the maximum permissible operating pressure is exceeded, the bearing in the motor may be damaged and the life of the shaft seal reduced.

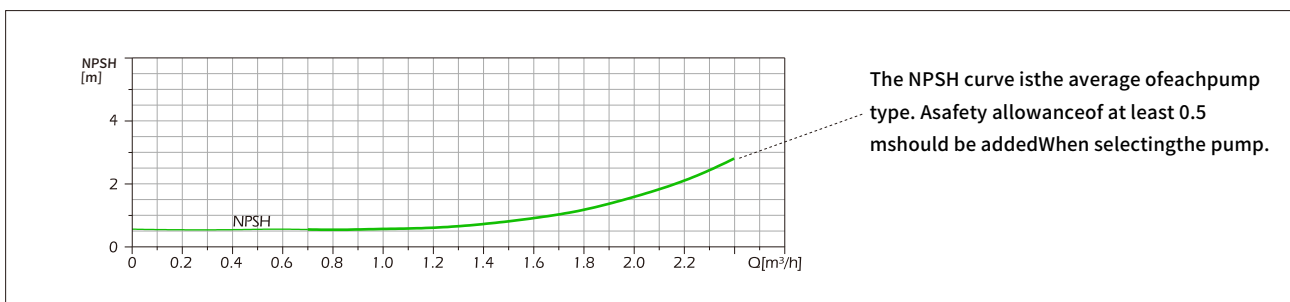
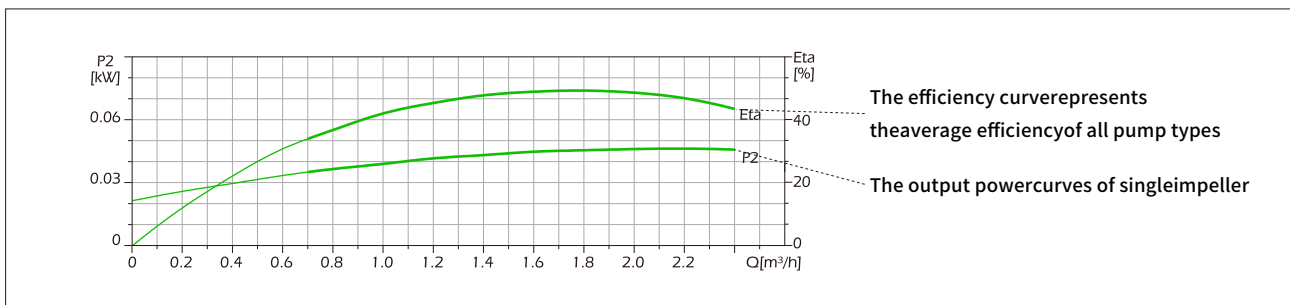
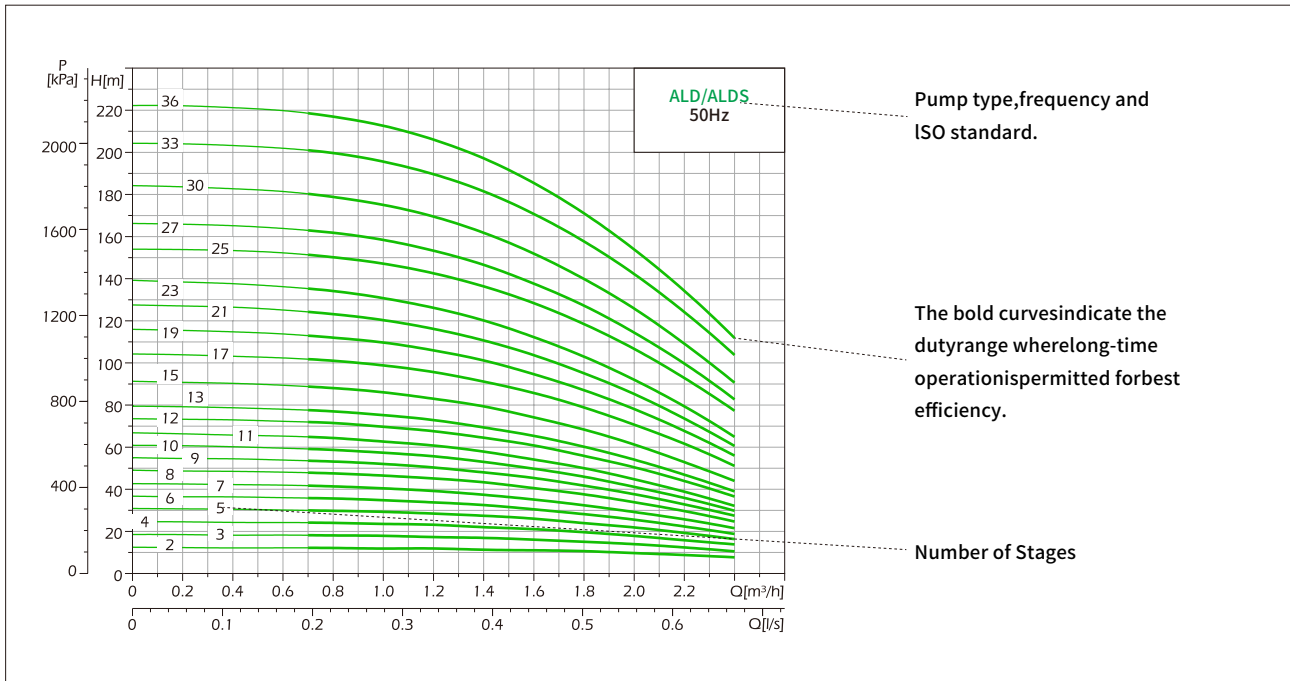
Model	Maximum Inlet Pressure
ALD/ALDS 1,3,5,10,15,20 Flange/cutting ferrule/pipe thread	25
ALD/ALDS 1,3,5 OVAL FLANGE	16
ALD/ALDS 32	
ALD 32-1-1→32-8	16
ALD 32-9-2→32-16	30
ALDS 32	30
ALD/ALDS 45	
ALD 45-1-1→45-5	16
ALD 45-6-2→45-9	25
ALD 45-10-2→45-11	30
ALD 45-12-2→45-13-2	33
ALDS 45	
ALDS 45-1-1→45-10-2	25
ALDS 45-10→45-13-2	33
ALD/ALDS 64	
ALD 64-1-1→64-5-2	16
ALD 64-5-1→64-8-1	25
ALDS 64	25
ALD/ALDS 90	
ALD 90-1-1→90-4-2	16
ALD 90-4→90-6	25
ALDS 90	25
ALD/ALDS 120/150/200	20

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



## TECHNICAL TABLE

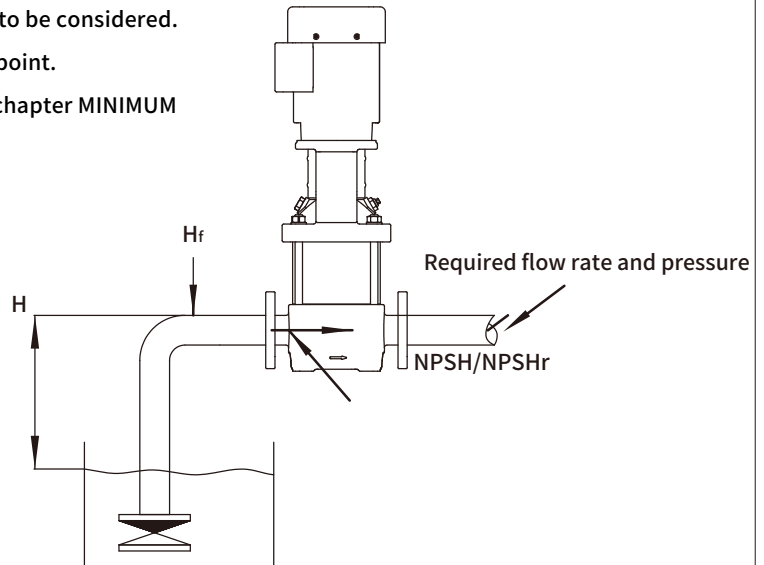
Tolerances to ISO 9006, Annex A. Measurements have been made with airless water at a temperature of 20°C and kinematic viscosity of 1mm/s. To avoid overheating of the motor, the pump should not be used against a high head for a long time.



**PUMP SELECTION**

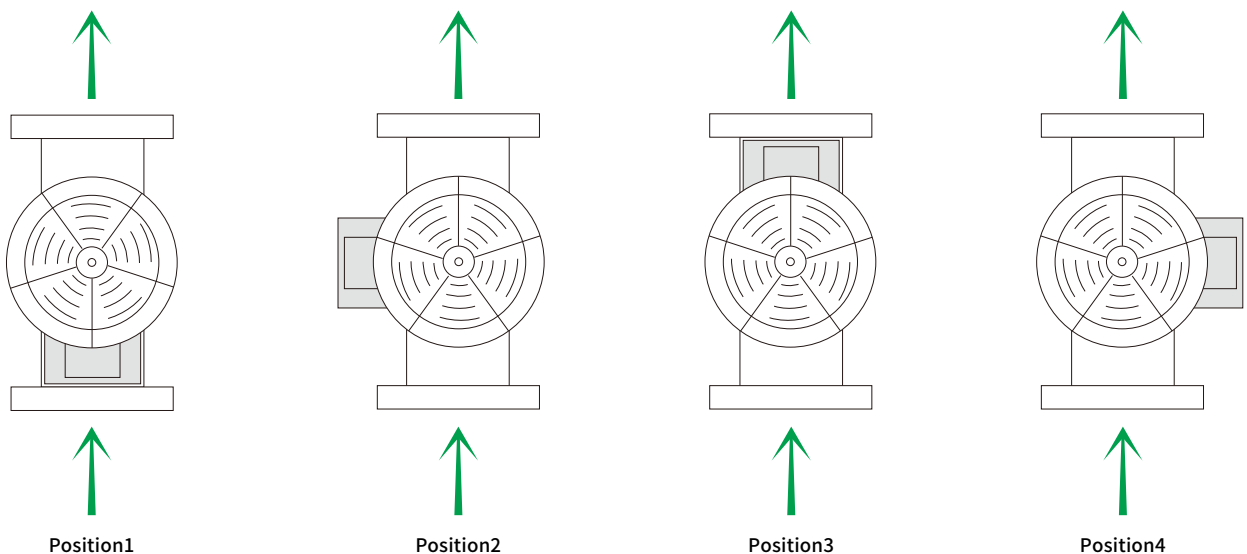
When selecting a pump, consider about these factors:

- Flow and pressure required at the extraction point.
- Pressure loss (H) due to height difference.
- Friction losses (H<sub>f</sub>) in pipes, pressure losses caused by long pipes, bends, valves or similar structures may need to be considered.
- The best efficiency at the expected operating point.
- NPSH value. For calculation of NPSH, see the chapter MINIMUM INLET PRESSURE-NPSH



**TERMINAL BOX POSITIONS**

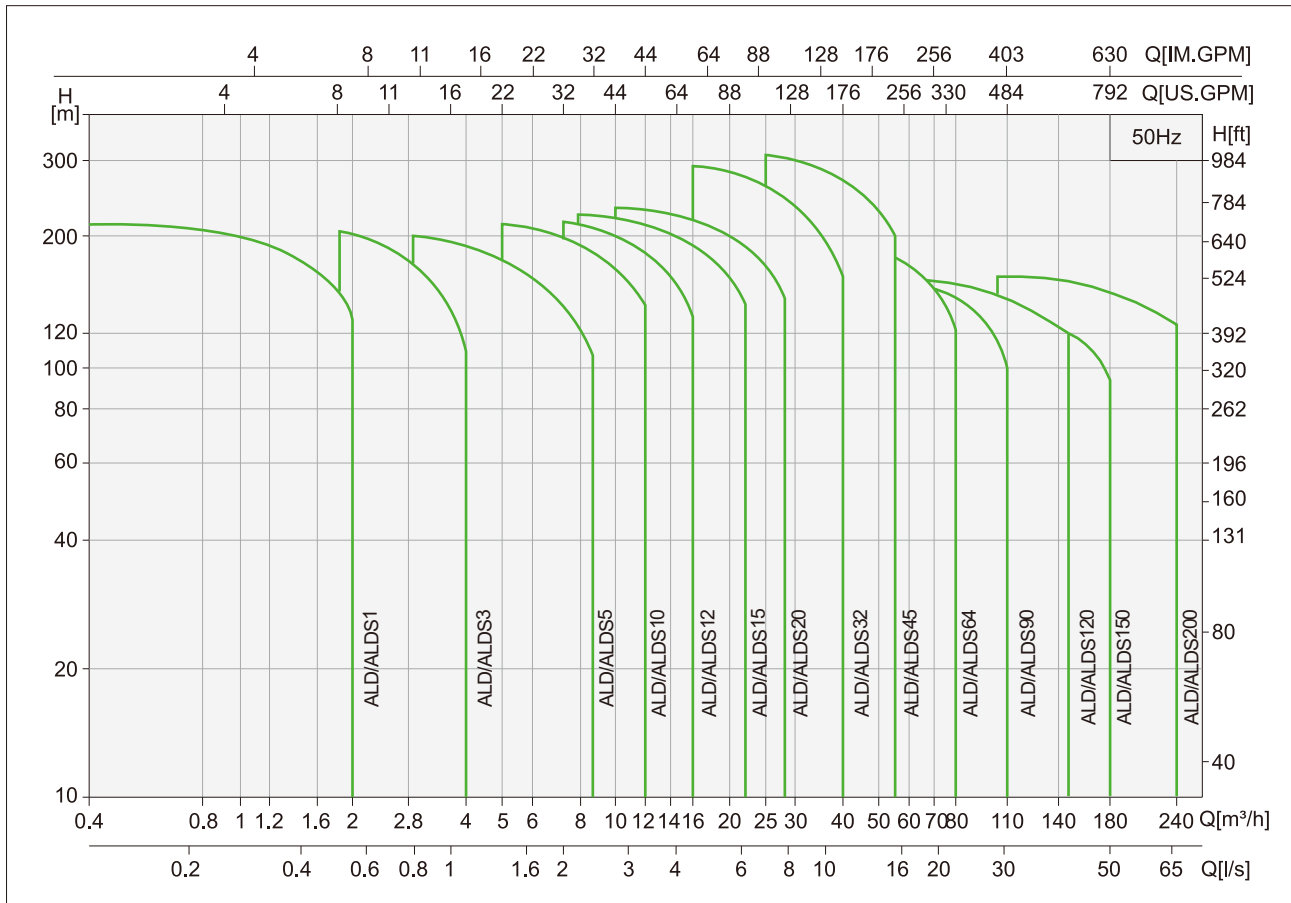
Note: set to position 3 before delivery



## PRODUCT RANGE

Model	ALD1 ALDS1	ALD3 ALDS3	ALD5 ALDS5	ALD10 ALDS10	ALD15 ALDS15	ALD20 ALDS20	ALD32 ALDS32	ALD45 ALDS45	ALD64 ALDS64	ALD90 ALDS90	ALD120 ALDS120	ALD150 ALDS150	ALD200 ALDS200
<b>Description</b>													
Rated flow[m <sup>3</sup> /h]	1	3	5	10	15	20	32	45	64	90	120	150	200
How range[m <sup>3</sup> /h]	0.4-2.0	1.2-4.4	2.3-8.4	5-14	8-23.5	10-29	14-39	23-60	30-86	46-121	60-150	80-180	100-240
Max.pressure bar	22	24	24	24	23	25	28	33	22	20	20	20	20
Motor power[kw]	0.37-2.2	0.37-3	0.37-4	0.75-11	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 Rangel[°C]	-20°C~+120°C Note: (Both the Max. permissible pressure and liquid temperature range refer to the pump capacity.)												
Max.pump efficiency[%]	45	55	60	72	70	72	74	78	76	77	74	73	79
<b>Pipe connection-ALD</b>													
Oval flange	G1	G1	G1 ¼	-	-	-	-	-	-	-	-	-	-
DIN flange	DN25	DN25	DN32	DN40	DN50	DN50	DN65	DN80	DN100	DN100	DN125	DN125	DN150
<b>Pipe connection-ALDS</b>													
DIN flange	DN25	DN25	DN32	DN40	DN50	DN50	DN65	DN80	DN100	DN100	DN125	DN125	DN150
Clamp connector	Φ42	Φ42	Φ42	-	-	-	-	-	-	-	-	-	-
Threaded connector	G1 ¼	G1 ¼	G1 ¼	-	-	-	-	-	-	-	-	-	-

## SCOPE OF PERFORMANCE



CROSS SECTION

ALD 1 3 5



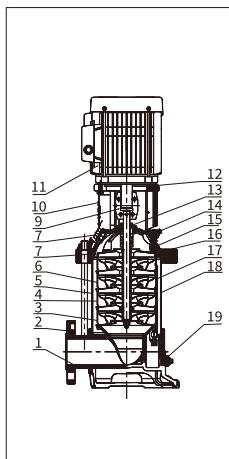
No	Name	Materials	GB	AISI/ASTM
1	Pump body	Cast iron	GB/T9439-HT200	ASTM 25B
2	Flange	Nodular cast iron	GB/T1348-QT400-18	ASTM A53660-40-18
3	First diffuser	Stainless steel	GB/T20878-06Cr19Ni10	AISI304
4	Diffuser with bearing	Stainless steel	GB/T20878-06Cr19Ni10	AISI304
5	Medium diffuser	Stainless steel	GB/T20878-05Cr19Ni10	AISI304
6	Impeller	Stainless steel	GB/T20878-06Cr19Ni10	ASI304
7	Final diffuser	Stainless steel	GB/T20878-05Cr19Ni10	AISI304
8	Filling plug	Stainless steel	GB/T20878-06Cr19Ni10	AISI304
9	Half-coupling	Iron based powder metallurgy	/	/
10	Motor	/	/	/
11	Guarding plate	Stainless steel	GB/T20878-06Cr19Ni10	ASI304
12	Mechanical seal	/	/	/
13	Pump cover	Cast iron	GB/T9439-HT200	ASTM 25B
14	Vent plug assembly	Stainless steel	GB/T20878-06Cr19Ni10	ASI304
15	Motor base	Cast iron	GB/T9439-HT200	ASTM 25B
16	Pump shaft	Stainless steel	GB/T20878-06Cr19Ni10	AISI304
17	Pump barrel	Stainless steel	GB/T20878-06Cr19Ni10	ASI304
18	Discharge bolt assembly	Stainless steel	GB/T20878-06Cr19Ni10	ASI304

ALDS 1 3 5



No	Name	Materials	GB	AISI/ASTM
1	Pump base	Cast iron	GB/T9439-HT200	ASTM 25B
2	Pump body	Stainless steel	GB/T20878-06Cr19Ni10	AISI304
3	First diffuser	Stainless steel	GB/T20878-06Cr19Ni10	ASI304
4	Diffuser with bearing	Stainless steel	GB/T 20878-05Cr19Ni10	AISI304
5	Flange	Nodular cast iron	GB/T1348-QT400-18	ASTM A536 60-40-18
6	Medium diffuser	Stainless steel	GB/T 20878-06Cr19Ni10	AISI304
7	Impeller	Stainless steel	GB/T20878-06Cr19Ni10	AISI304
8	Final diffuser	Stainless steel	GB/T 20878-06Cr19Ni10	AISI304
9	Filling plug	Stainless steel	GB/T 20878-06Cr19Ni10	ASI304
10	Half-coupling	Iron based powder metallurgy	/	/
11	Motor	/	/	/
12	Guarding plate	Stainless steel	GB/T 20878-06Cr19Ni10	ASI304
13	Mechanical seal	/	/	/
14	Pump cover	Stainless steel	GB/T 20878-06Cr19Ni10	ASI304
15	Vent plug assembly	Stainless steel	GB/T 20878-06Cr19Ni10	ASI304
16	Pump shaft	Stainless steel	GB/T 20878-06Cr19Ni10	AISI304
17	Motor base	Cast iron	GB/T9439-HT200	ASTM25B
18	Pump barrel	Stainless steel	GB/T 20878-06Cr19Ni10	ASI304
19	Discharge bolt assembly	Stainless steel	GB/T20878-06Cr19Ni10	ASI304

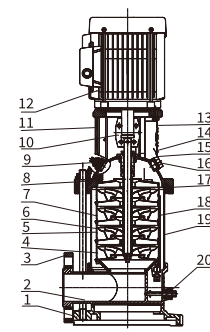
ALD 10 15 20



No	Name	Materials	GB	AISI/ASTM
1	Pump body	Cast iron	GB/T9439-HT200	ASTM25B
2	Flange	Nodular cast iron	GB/T13480T400-18	ASTMA536 60-40-18
3	First diffuser	Stainless steel	GB/T20878-06Cr19Ni10	AISI304
4	Diffuser with bearing	Stainless steel	GB/T20878-06Cr19Ni10	ASI304
5	Impeller	Stainless steel	GB/T20878-06Cr19Ni10	AISI304
6	Medium diffuser	Stainless steel	GB/T20878-06Cr19Ni10	ASI304
7	Final diffuser	Stainless steel	GB/T20878-06Cr19Ni10	AISI304
8	Filling plug	Stainless steel	GB/T20878-06Cr19Ni10	ASI304
9	Half-coupling	Iron based powder metallurgy	/	/
10	Guarding plate	Stainless steel	GB/T20878-06Cr19Ni10	ASI304
11	Motor	/	/	/
12	Motor base	Cast iron	GB/T9439-HT200	ASTM25B
13	Mechanical seal	/	/	/
14	Vent plug assembly	Stainless steel	GB/T20878-06Cr19Ni10	ASI304
15	Pump cover	Cast iron	GB/T9439-HT200	ASTM25B
16	Pump shaft	Stainless steel	GB/T20878-06Cr19Ni10	AISI304
17	Tension plate	Stainless steel	GB/T20878-06Cr19Ni10	ASI304
18	Pump barrel	Stainless steel	GB/T20878-06Cr19Ni10	ASI304
19	Discharge bolt assembly	Stainless steel	GB/T20878-06Cr19Ni10	ASI304

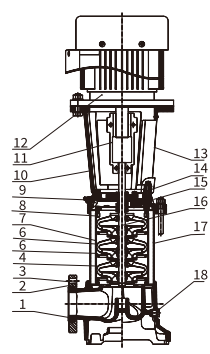
**CROSS SECTION**

ALDS 10 15 20



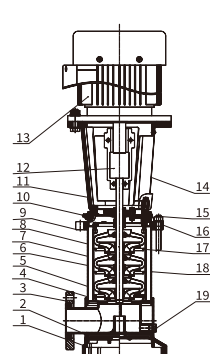
No	Name	Materials	GB	AISI/ASTM
1	Pump base	Cast iron	GB/T9439-HT200	ASTM25B
2	Pump body	Stainless steel	GB/T20878-06Cr19Ni10	AS1304
3	Flange	Nodular cast iron	GB/T1348-0T400-18	ASTMA53660-40-18
4	First diffuser	Stainless steel	GB/T20878-06Cr19Ni10	AS1304
5	Diffuser with bearing	Stainless steel	GB/T20878-06Cr19Ni10	AS1304
6	Impeller	Stainless steel	GB/T20878-06Cr19Ni10	AS1304
7	Medium diffuser	Stainless steel	GB/T20878-06Cr19Ni10	AS1304
8	Final diffuser	Stainless steel	GB/T2087806Cr19Ni10	AS1304
9	Filling plug	Stainless steel	GB/T20878-06Cr19Ni10	AS1304
10	Half-coupling	Iron based powder metallurgy	/	/
11	Motor base	Cast iron	GBT 9439-HT200	ASTM25B
12	Motor	/	/	/
13	Guarding plate	Stainless steel	GB/T20878-05Cr19Ni10	AS1304
14	Mechanical seal	/	/	/
15	Pump cover	Stainless steel	GB/T20878-06Cr19Ni10	AS1304
16	Vent plug assembly	Stainless steel	GB/T20878-06Cr19Ni10	AS304
17	Pump shaft	Stainless steel	GB/T20878-06Cr19Ni10	AS1304
18	Tension plate	Stainless steel	GB/T20878-06Cr19Ni10	AS1304
19	Pump barrel	Stainless steel	GB/T20878-06Cr19Ni10	AS1304
20	Discharge bolt assembly	Stainless steel	GB/T20878-06Cr19Ni10	AS1304

ALD 32 45 64 90 120 150 200



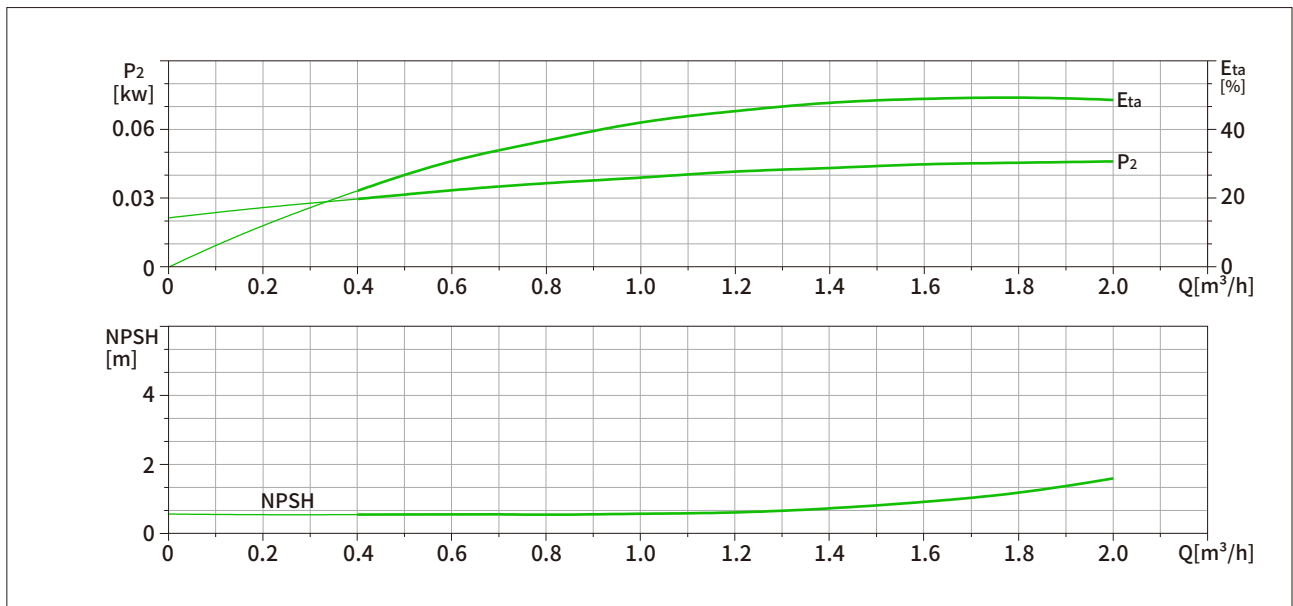
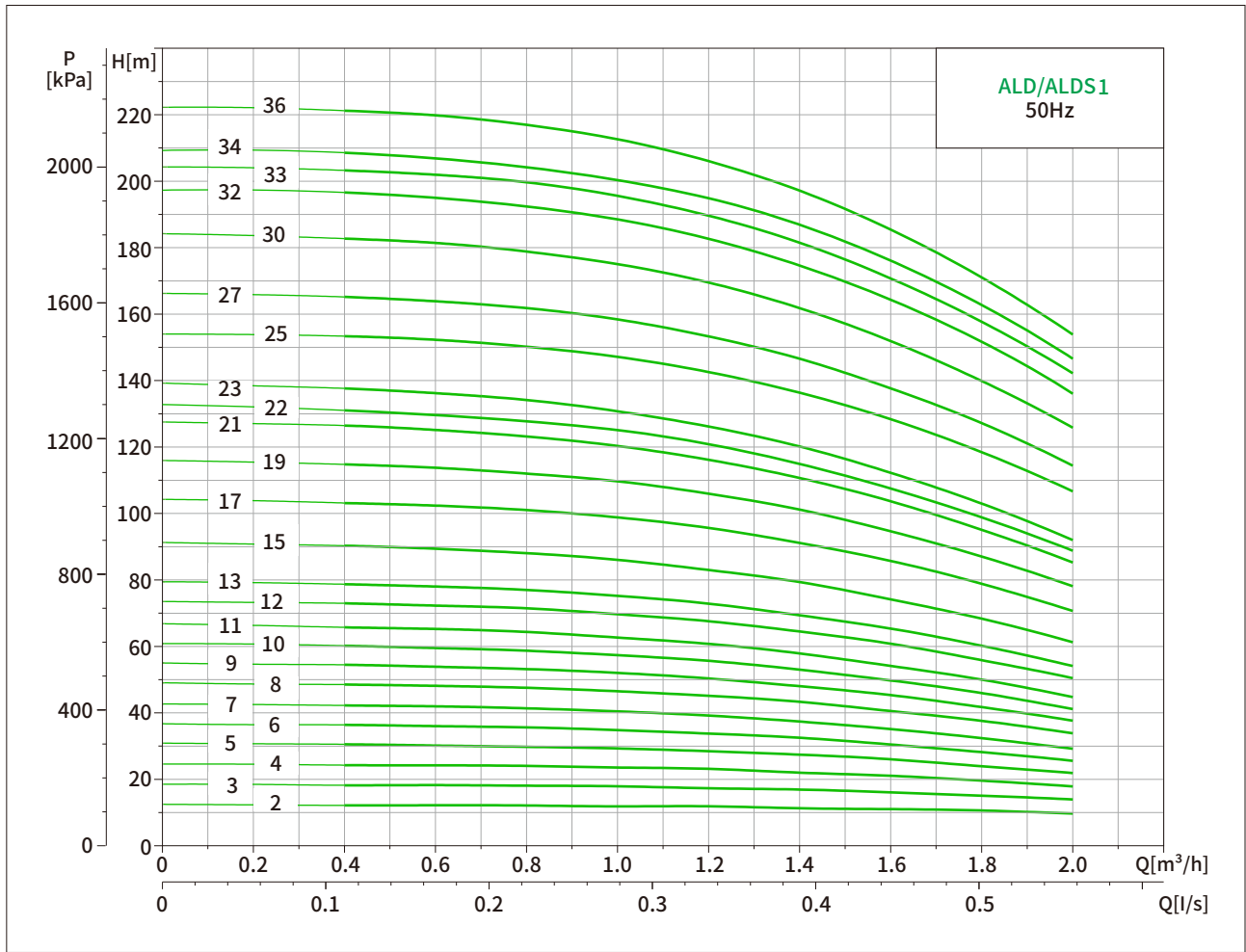
No	Name	Materials	GB	AISI/ASTM
1	Pump body	Cast iron	GB/T9439-HT200	ASTM25B
2	Flange	Nodular cast iron	GB/T1348-QT400-18	ASTMA53660-40-18
3	First diffuser	Stainless steel	GB/T20878-05Cr19Ni10	AS1304
4	Diffuser with bearing	Stainless steel	GB/T20878-05Cr19Ni10	AS1304
5	Impeller	Stainless steel	GB/T20878-05Cr19Ni10	AS1304
6	Medium diffuser	Stainless steel	GB/T20878-05Cr19Ni10	AS1304
7	Tension plate	Stainless steel	GB/T20878-05Cr19Ni10	AS1304
8	Final diffuser	Stainless steel	GB/T20878-06Cr19Ni10	AS1304
9	Vent plug assembly	Stainless steel	GB/T20878-06Cr19Ni10	AS1304
10	Motor base	Cast iron	GB/T9439-HT200	ASTM25B
11	Half-coupling	Iron based powder metallurgy	GB/T1348QT400-18	ASTMA53560-40-18
12	Motor	/	/	/
13	Guarding plate	Stainless steel	GB/T20878-05Cr19Ni10	AS1304
14	Mechanical seal	/	/	/
15	Pump cover	Cast iron	GB/T9439-HT200	ASTM25B
16	Pump shaft	Stainless steel	GB/T20878-06Cr19Ni10	AS1304
17	Pump barrel	Stainless steel	GB/T20878-05Cr19Ni10	AS1304
18	Discharge bolt assembly	Stainless steel	GBT20878-05Cr19Ni10	AS1304

ALDS 32 45 64 90 120 150 200



No	Name	Materials	GB	AISI/ASTM
1	Pump base	Cast iron	GB/T9439-HT200	ASTM25B
2	Pump body	Stainless steel	GB/T20878-06Cr19Ni10	AS1304
3	Flange	Nodular cast iron	GB/T 1348-QT400-18	ASTM A536 60-40-18
4	First diffuser	Stainless steel	GB/T20878-06Cr19Ni10	AS1304
5	Diffuser with bearing	Stainless steel	GB/T20878-06Cr19Ni10	AS1304
6	Medium diffuser	Stainless steel	GB/T20878-06Cr19Ni10	AS1304
7	Tension plate	Stainless steel	GB/T 20878-06Cr19Ni10	AS1304
8	Impeller	Stainless steel	GB/T20878-06Cr19Ni10	AS1304
9	Final diffuser	Stainless steel	GB/T20878-06Cr19Ni10	AS1304
10	Vent plug assembly	Stainless steel	GB/T20878-06Cr19Ni10	AS1304
11	Motor base	Cast iron	GB/T9439-HT200	ASTM25B
12	Half-coupling	Iron based powder metallurgy	GB/T1348-QT400-18	ASTM A536 60-40-18A
13	Motor	/	GB/T9439-HT200	STM25BAS1304
14	Guarding plate	Stainless steel	GB/T20878-06Cr19Ni10	AS1304
15	Mechanical seal	/	/	/
16	Pump cover	Stainless steel	GB/T20878-06Cr19Ni10	AS1304
17	Pump shaft	Stainless steel	GB/T20878-06Cr19Ni10	AS1304
18	Pump barrel	Stainless steel	GB/T20878-06Cr19Ni10	AS1304
19	Discharge bolt assembly	Stainless steel	GB/T20878-06Cr19Ni10	AS1304

**PERFORMANCE CURVES**



### DIMENSION DRAWING

FLANGE PN25 / DN25/32

OVAL FLANGE (ALD) PN16

FLANGE (ALD) PN25/DN25/32

R CONE-THREAD CONNECTOR (ALDS)

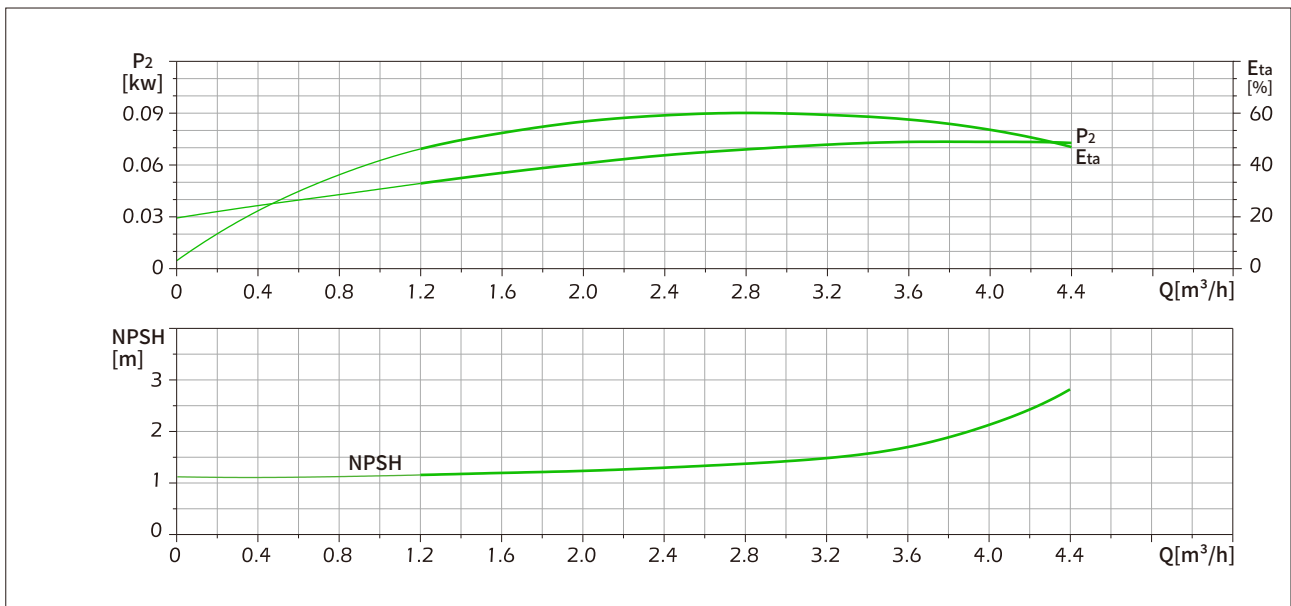
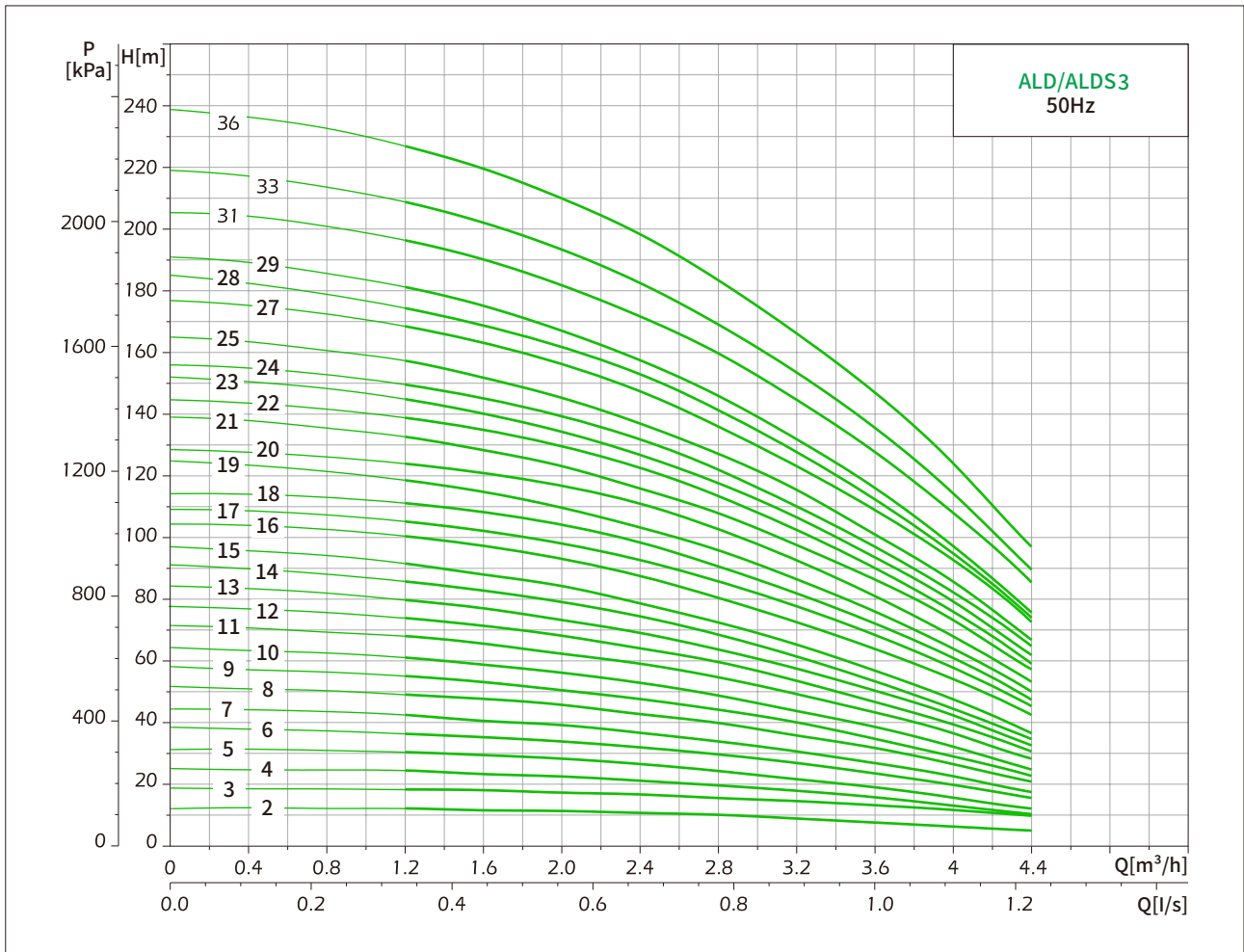
CLAMP CONNECTOR (ALDS)

Model	Size(mm)			
	B1	B1+B2	D1	D2
ALD/ALDS1-2	282	541	140	119
ALD/ALDS1-3	282	541	140	119
ALD/ALDS1-4	300	559	140	119
ALD/ALDS1-5	318	577	140	119
ALD/ALDS1-6	336	595	140	119
ALD/ALDS1-7	354	613	140	119
ALD/ALDS1-8	372	631	140	119
ALD/ALDS1-9	390	649	140	119
ALD/ALDS1-10	408	667	140	119
ALD/ALDS1-11	426	685	140	119
ALD/ALDS1-12	448	734	156	123
ALD/ALDS1-13	466	752	156	123
ALD/ALDS1-15	502	788	156	123
ALD/ALDS1-17	538	824	156	123
ALD/ALDS1-19	574	860	156	123
ALD/ALDS1-21	610	896	156	123
ALD/ALDS1-22	628	914	156	123
ALD/ALDS1-23	646	962	168	132
ALD/ALDS1-25	698	1014	168	132
ALD/ALDS1-27	734	1050	168	132
ALD/ALDS1-30	788	1104	168	132
ALD/ALDS1-32	824	1165	168	132
ALD/ALDS1-33	842	1183	168	132
ALD/ALDS1-34	860	1201	168	132
ALD/ALDS1-36	896	1237	168	132

Note: ALD/ALDS1-25-1-36 Non oval flange type pipeline connection.

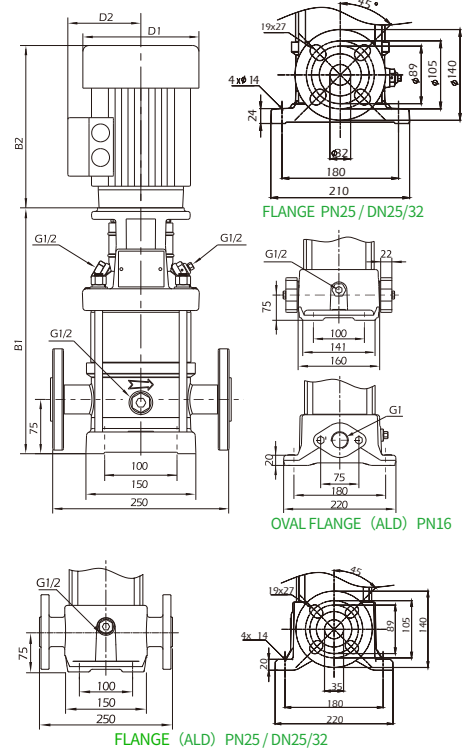
Model	Power(kW)	Q[m <sup>3</sup> /h]	0.4	0.6	0.8	1	1.2	1.4	1.6	1.8	2
ALD/ALDS1-2	0.37	H(m)	12	11.7	11.4	11.2	11	10.8	10.5	10.3	9.7
ALD/ALDS1-3	0.37		18	17.6	17.2	16.8	16	15.5	15	14.5	14
ALD/ALDS1-4	0.37		24	23.5	23	22.5	22	21.5	21	19	18
ALD/ALDS1-5	0.37		30	29.5	29	28.5	28	27	26	24	22
ALD/ALDS1-6	0.37		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	37
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

**PERFORMANCE CURVES**

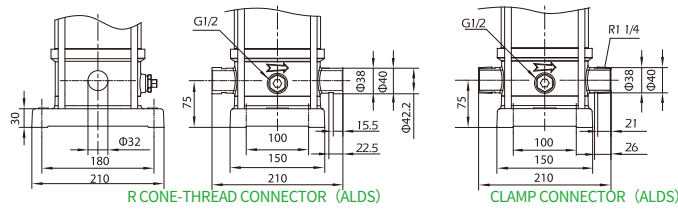




**DIMENSION DRAWING**



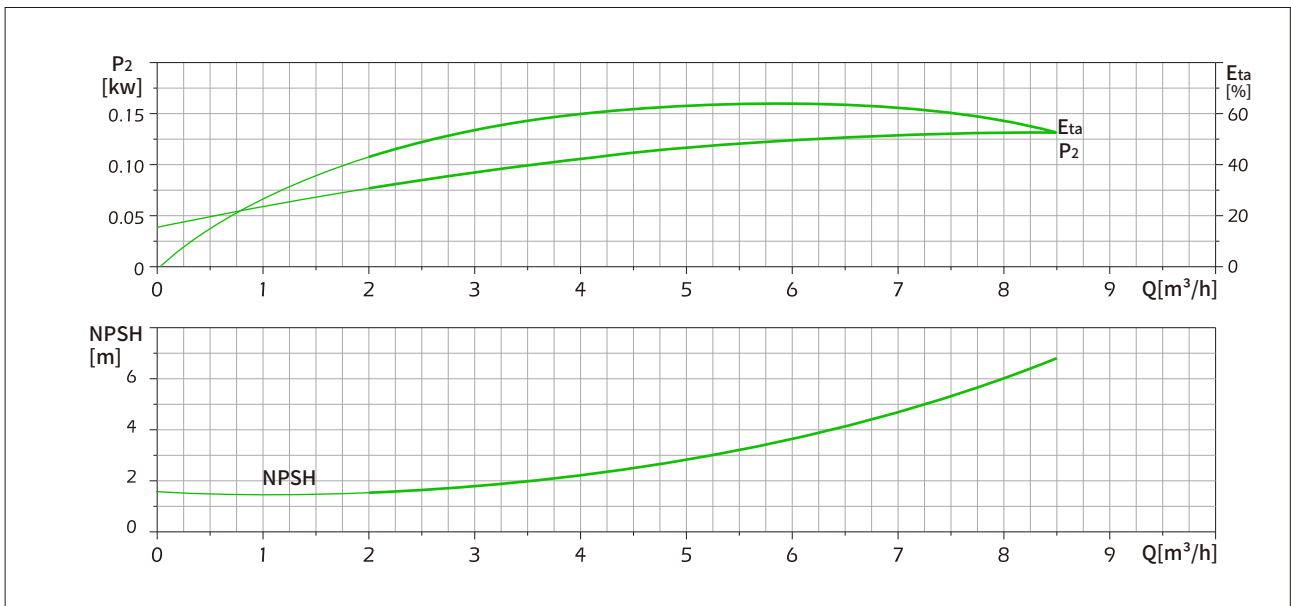
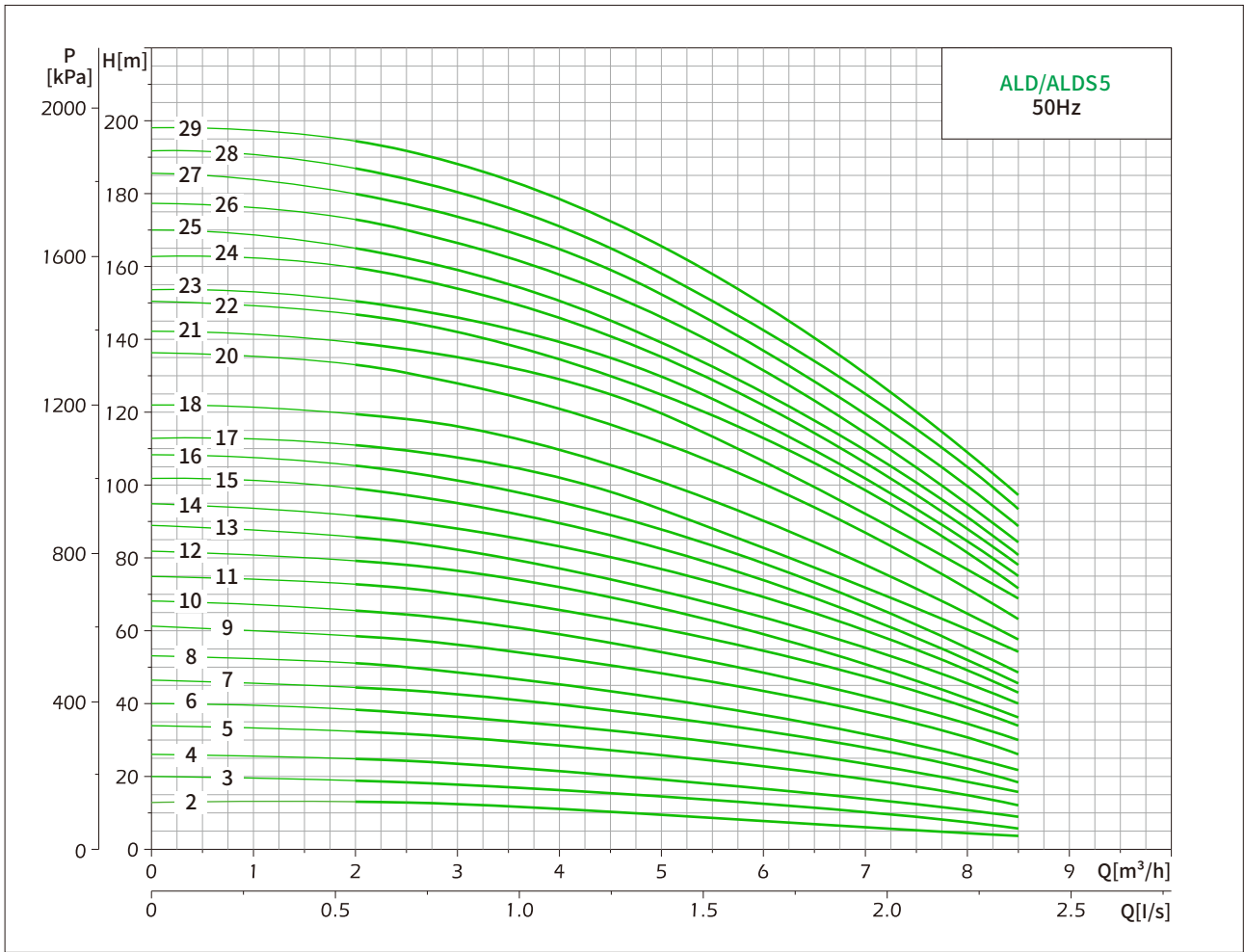
Note: ALD/ALDS3-26-3-36 Non oval flange type pipeline connection.



Model	Size(mm)			
	B1	B1+B2	D1	D2
ALD/ALDS3-2	282	541	140	119
ALD/ALDS3-3	282	541	140	119
ALD/ALDS3-4	300	559	140	119
ALD/ALDS3-5	318	577	140	119
ALD/ALDS3-6	336	595	140	119
ALD/ALDS3-7	354	613	140	119
ALD/ALDS3-8	376	662	156	123
ALD/ALDS3-9	394	680	156	123
ALD/ALDS3-10	412	698	156	123
ALD/ALDS3-11	430	716	156	123
ALD/ALDS3-12	448	734	156	123
ALD/ALDS3-13	466	752	156	123
ALD/ALDS3-14	484	770	156	123
ALD/ALDS3-15	502	788	156	123
ALD/ALDS3-16	536	852	168	132
ALD/ALDS3-17	554	870	168	132
ALD/ALDS3-18	572	888	168	132
ALD/ALDS3-19	590	906	168	132
ALD/ALDS3-20	608	924	168	132
ALD/ALDS3-21	626	967	168	132
ALD/ALDS3-22	644	985	168	132
ALD/ALDS3-23	662	1003	168	132
ALD/ALDS3-24	680	1021	168	132
ALD/ALDS3-25	698	1039	168	132
ALD/ALDS3-27	734	1075	168	132
ALD/ALDS3-28	752	1093	168	132
ALD/ALDS3-29	770	1111	168	132
ALD/ALDS3-31	810	1202	198	161
ALD/ALDS3-33	846	1238	198	161
ALD/ALDS3-36	900	1292	198	161

Model	Power(kW)	Q[m <sup>3</sup> /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

**PERFORMANCE CURVES**



### DIMENSION DRAWING

FLANGE PN25 / DN25/32

OVAL FLANGE (ALD) PN16

FLANGE (ALD) PN25 / DN25/32

R CONE-THREAD CONNECTOR (ALDS)

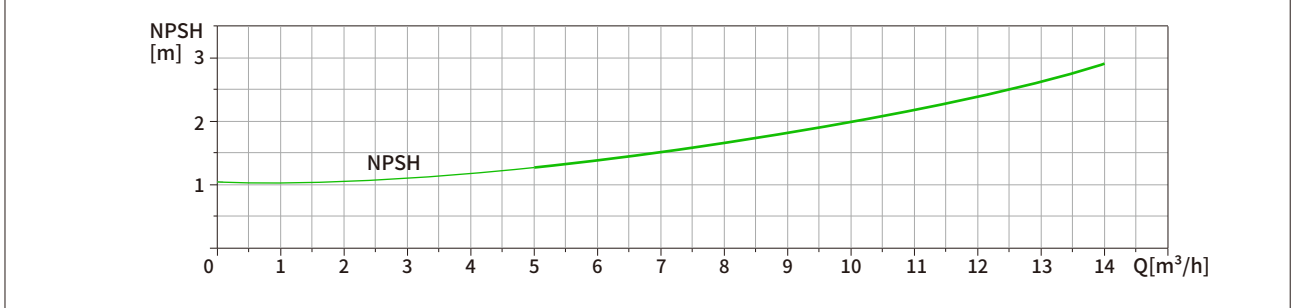
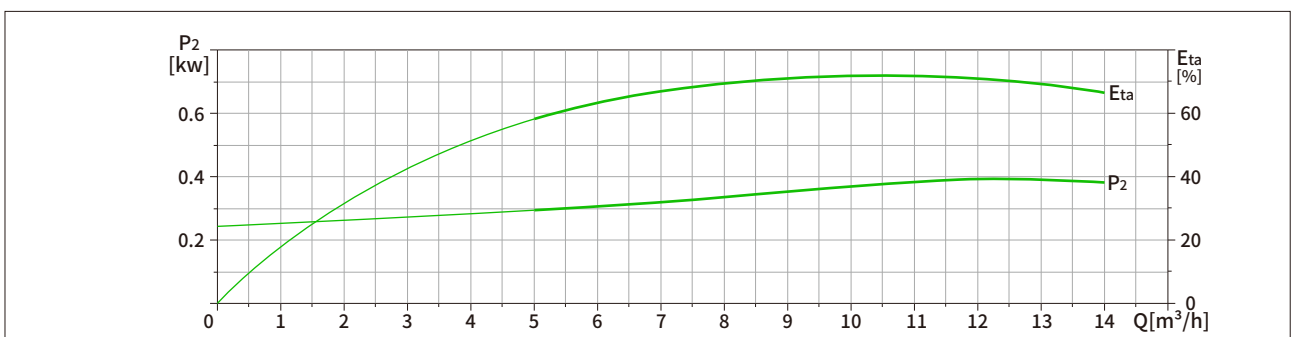
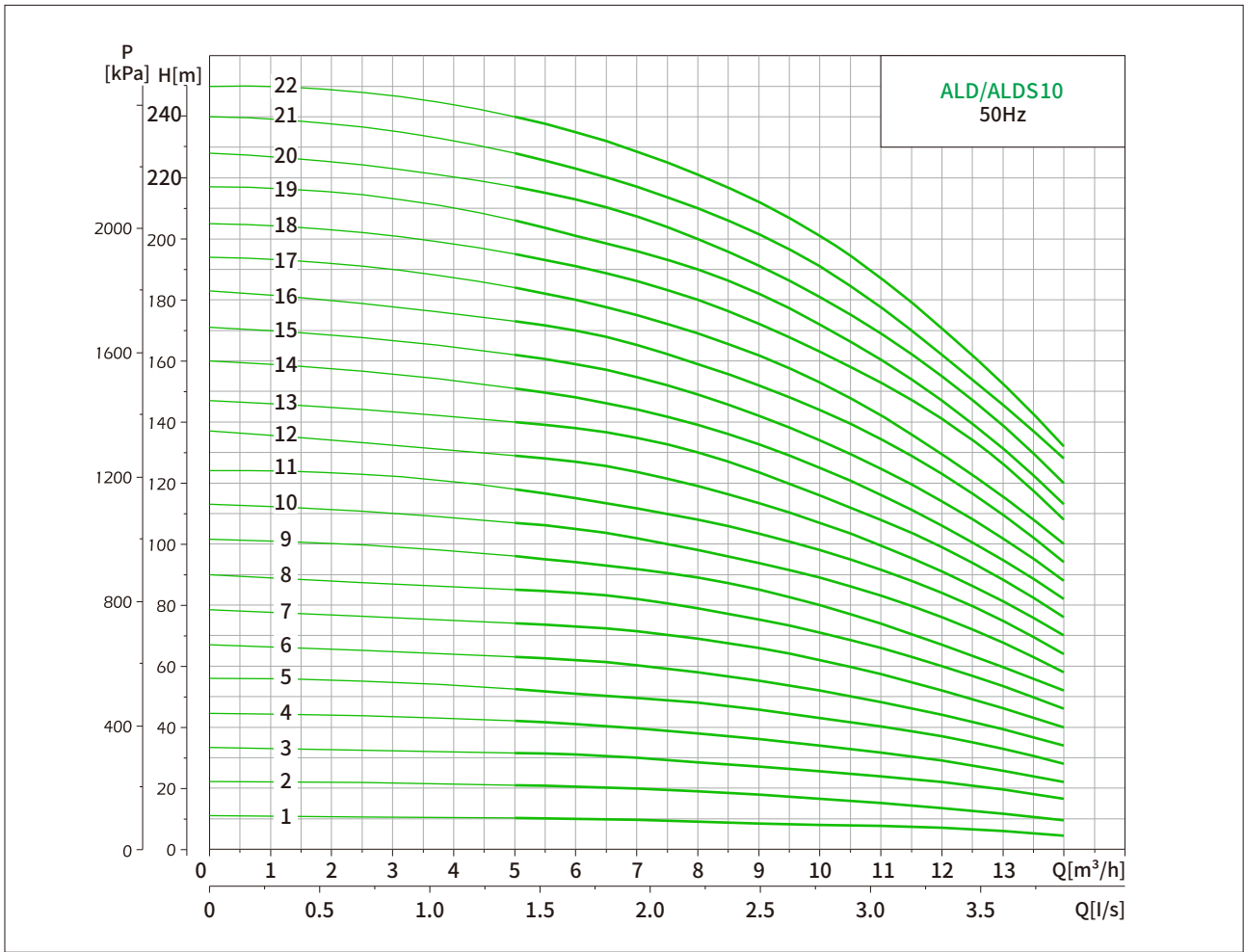
CLAMP CONNECTOR (ALDS)

Model	Size(mm)			
	B1	B1+B2	D1	D2
ALD/ALDS5-2	282	541	140	119
ALD/ALDS5-3	309	568	140	119
ALD/ALDS5-4	336	595	140	119
ALD/ALDS5-5	367	653	156	123
ALD/ALDS5-6	394	680	156	123
ALD/ALDS5-7	421	707	156	123
ALD/ALDS5-8	448	734	156	123
ALD/ALDS5-9	491	807	168	132
ALD/ALDS5-10	518	834	168	132
ALD/ALDS5-11	545	886	168	132
ALD/ALDS5-12	572	913	168	132
ALD/ALDS5-13	599	940	168	132
ALD/ALDS5-14	626	967	168	132
ALD/ALDS5-15	653	994	168	132
ALD/ALDS5-16	680	1021	168	132
ALD/ALDS5-17	701	1093	198	161
ALD/ALDS5-18	738	1130	198	161
ALD/ALDS5-20	792	1184	198	161
ALD/ALDS5-21	819	1211	198	161
ALD/ALDS5-22	846	1237	220	175
ALD/ALDS5-23	873	1264	220	175
ALD/ALDS5-24	900	1291	220	175
ALD/ALDS5-25	927	1318	220	175
ALD/ALDS5-26	954	1345	220	175
ALD/ALDS5-27	981	1372	220	175
ALD/ALDS5-28	1008	1399	220	175
ALD/ALDS5-29	1035	1426	220	175

Note: ALD/ALDS5-24~5-29 Non oval flange type pipeline connection.

Model	Power(kW)	Q[m <sup>3</sup> /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

PERFORMANCE CURVES



### DIMENSION DRAWING

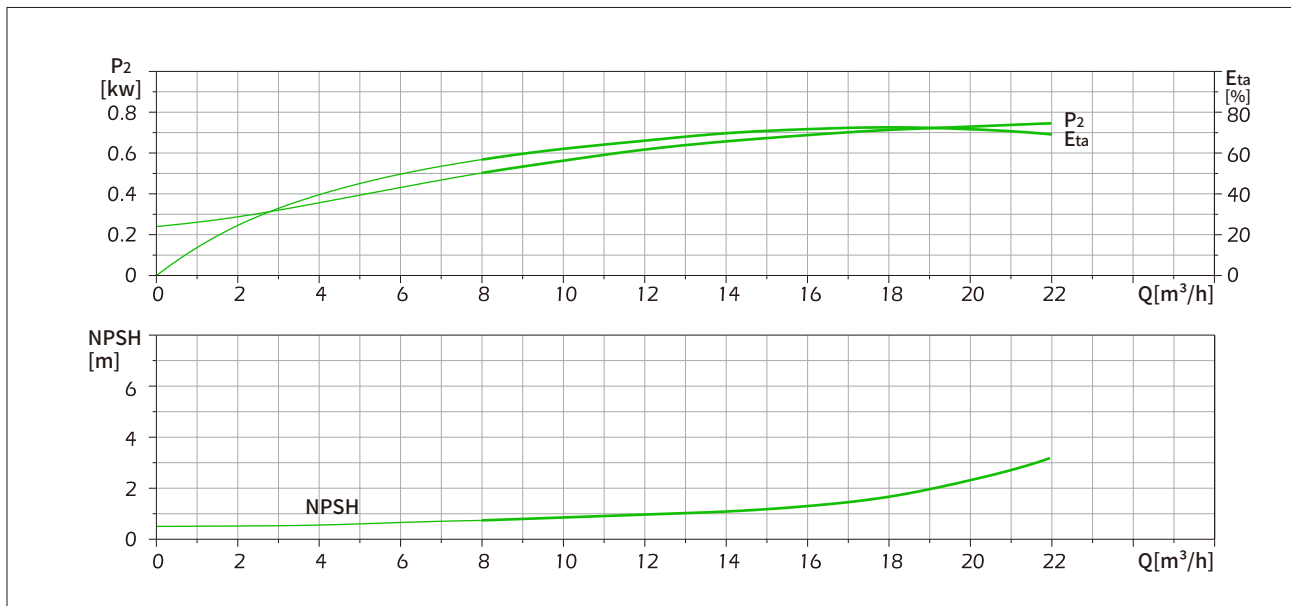
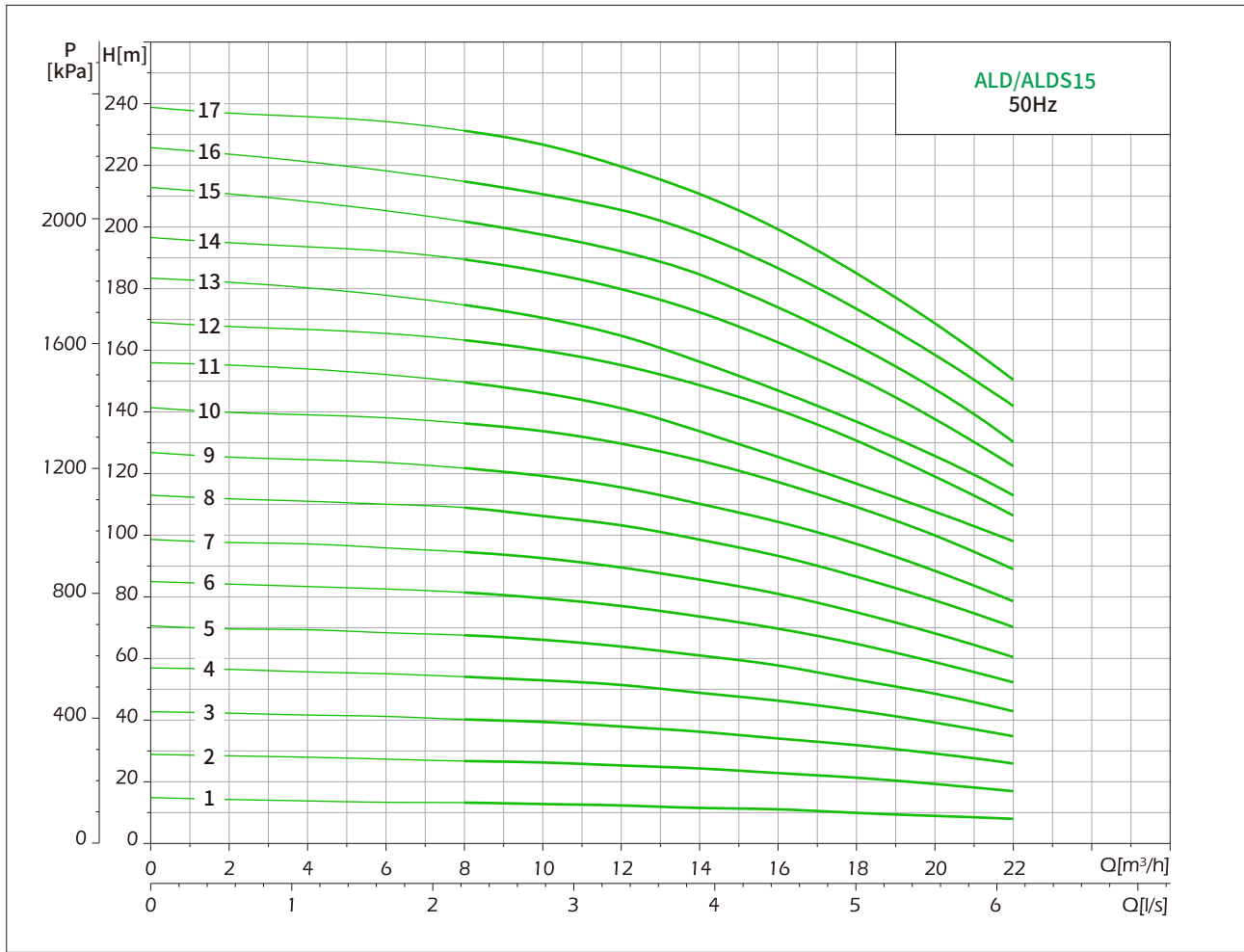
Model	Size(mm)			
	B1	B1+B2	D1	D2
ALD/ALDS10-1	351	637	156	123
ALD/ALDS10-2	354	640	156	123
ALD/ALDS10-3	384	670	156	123
ALD/ALDS10-4	430	746	168	132
ALD/ALDS10-5	460	801	168	132
ALD/ALDS10-6	490	831	168	132
ALD/ALDS10-7	525	917	198	161
ALD/ALDS10-8	555	947	198	161
ALD/ALDS10-9	585	976	220	175
ALD/ALDS10-10	615	1006	220	175
ALD/ALDS10-11	645	1036	220	175
ALD/ALDS10-12	707	1133	260	195
ALD/ALDS10-13	737	1163	260	195
ALD/ALDS10-14	767	1193	260	195
ALD/ALDS10-15	797	1223	260	195
ALD/ALDS10-16	827	1253	260	195
ALD/ALDS10-17	857	1283	260	195
ALD/ALDS10-18	887	1313	260	195
ALD/ALDS10-19	917	1343	260	195
ALD/ALDS10-20	947	1373	260	195
ALD/ALDS10-21	977	1403	260	195
ALD/ALDS10-22	1084	1627	350	233

FLANGE (ALD) PN16-25/DN40

FLANGE (ALDS) PN16-25/DN40

Model	Power(kW)	Q[m <sup>3</sup> /h]	5	6	8	10	12	14
ALD/ALDS10-1	0.75	H(m)	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

**PERFORMANCE CURVES**



### DIMENSION DRAWING

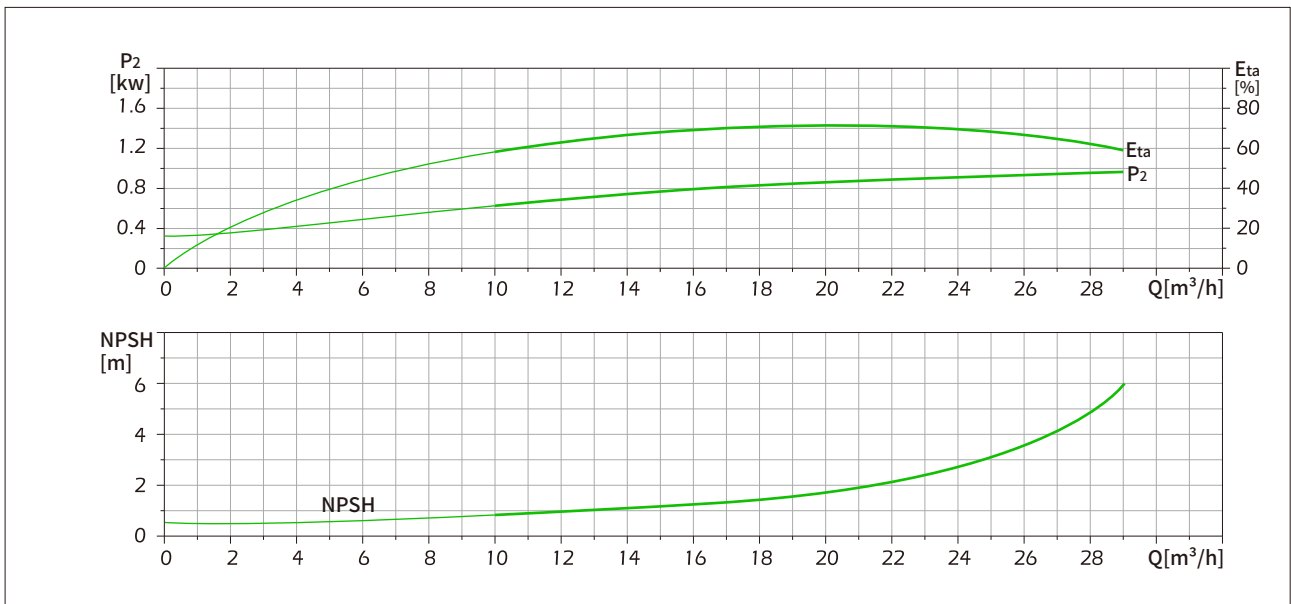
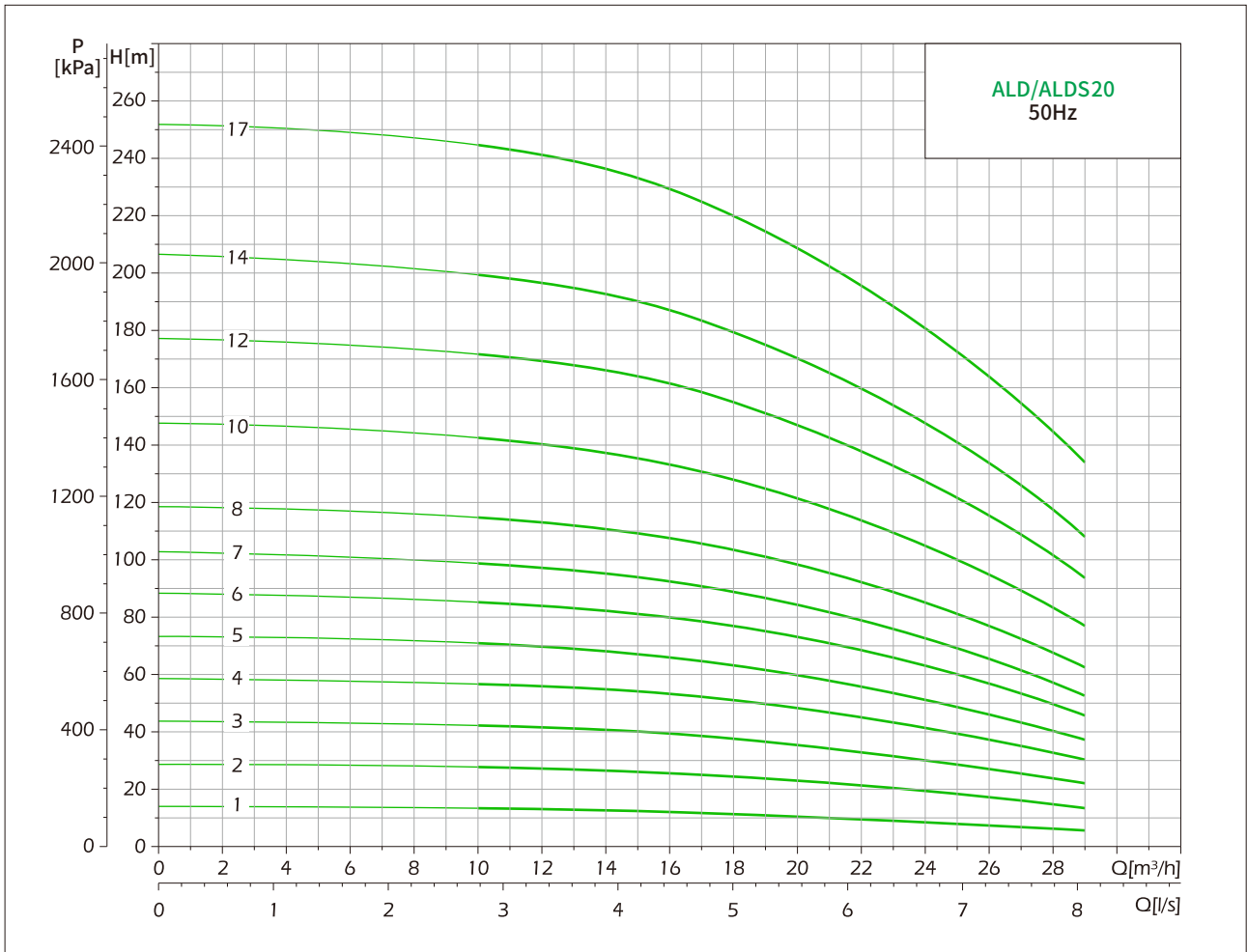
Model	Size(mm)			
	B1	B1+B2	D1	D2
ALD/ALDS15-1	399	685	156	123
ALD/ALDS15-2	415	756	168	132
ALD/ALDS15-3	465	857	198	161
ALD/ALDS15-4	510	901	220	175
ALD/ALDS15-5	555	946	220	175
ALD/ALDS15-6	632	1058	260	195
ALD/ALDS15-7	677	1103	260	195
ALD/ALDS15-8	722	1148	260	195
ALD/ALDS15-9	767	1193	260	195
ALD/ALDS15-10	889	1432	350	233
ALD/ALDS15-11	934	1477	350	233
ALD/ALDS15-12	979	1522	350	233
ALD/ALDS15-13	1024	1567	350	233
ALD/ALDS15-14	1069	1612	350	233
ALD/ALDS15-15	1114	1657	350	233
ALD/ALDS15-16	1159	1702	350	233
ALD/ALDS15-17	1204	1747	350	233

FLANGE (ALD) PN16-25/DN50

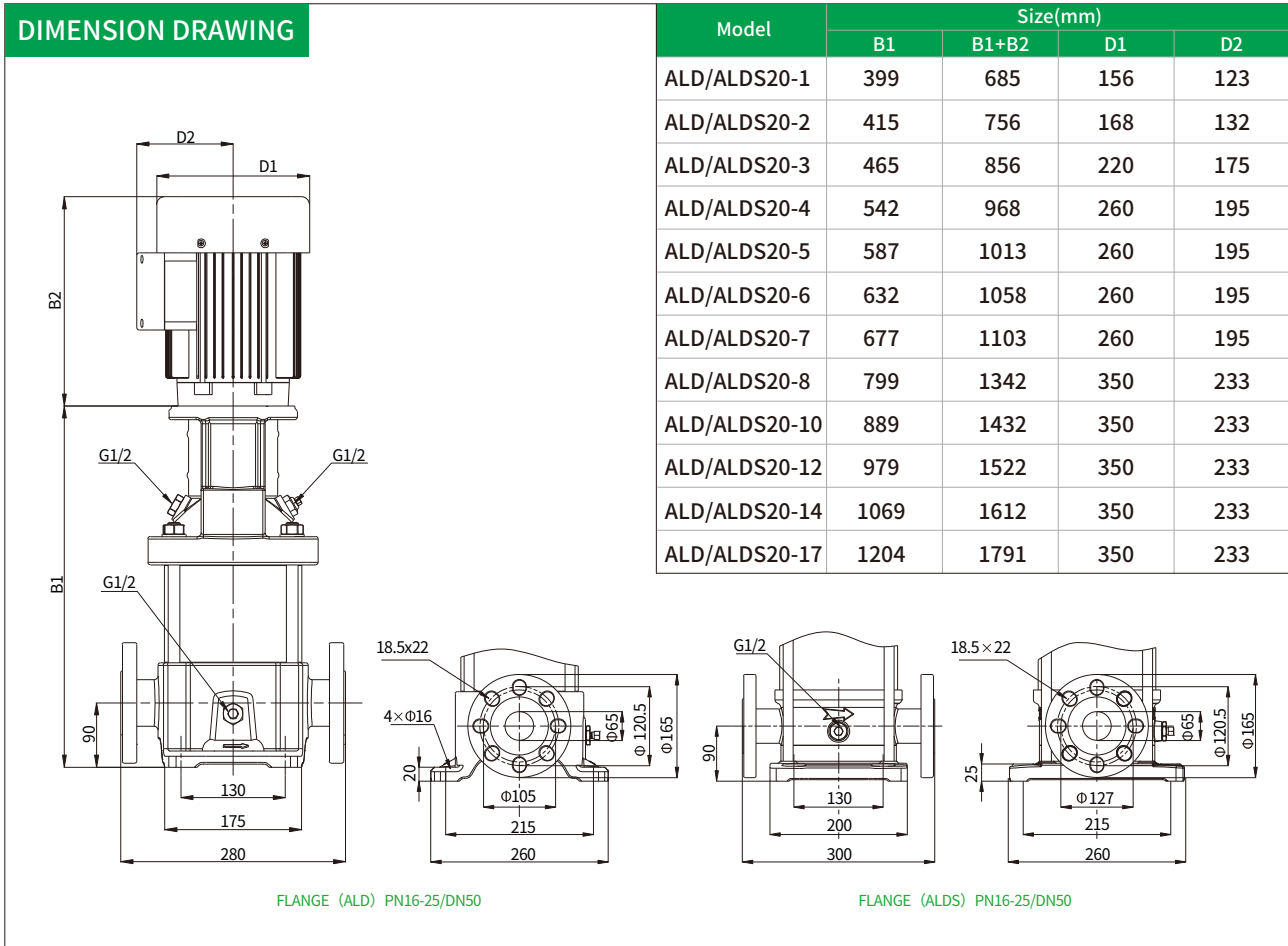
FLANGE (ALDS) PN16-25/DN50

Model	Power(kW)	Q[m <sup>3</sup> /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	3.0		41	40	38	35	32	29	25
ALD/ALDS15-4	4.0		56	55	51	47	43	39	35
ALD/ALDS15-5	4.0		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	11.0		138	136	129	120	109	100	89
ALD/ALDS15-11	11.0		151	149	142	130	119	109	98
ALD/ALDS15-12	11.0		165	162	155	142	130	119	107
ALD/ALDS15-13	11.0		176	174	166	153	139	128	113
ALD/ALDS15-14	11.0		190	188	180	166	151	138	122
ALD/ALDS15-15	15.0		203	202	192	180	162	148	130
ALD/ALDS15-16	15.0		217	214	205	191	174	159	141
ALD/ALDS15-17	15.0		232	230	219	205	185	169	150

**PERFORMANCE CURVES**

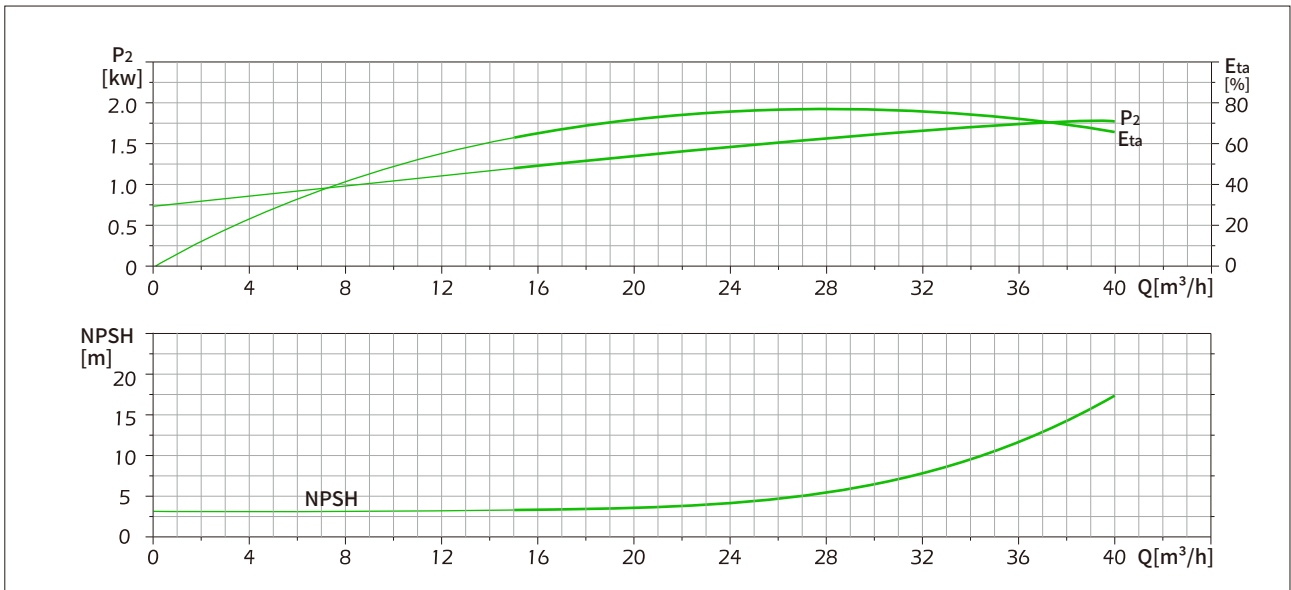
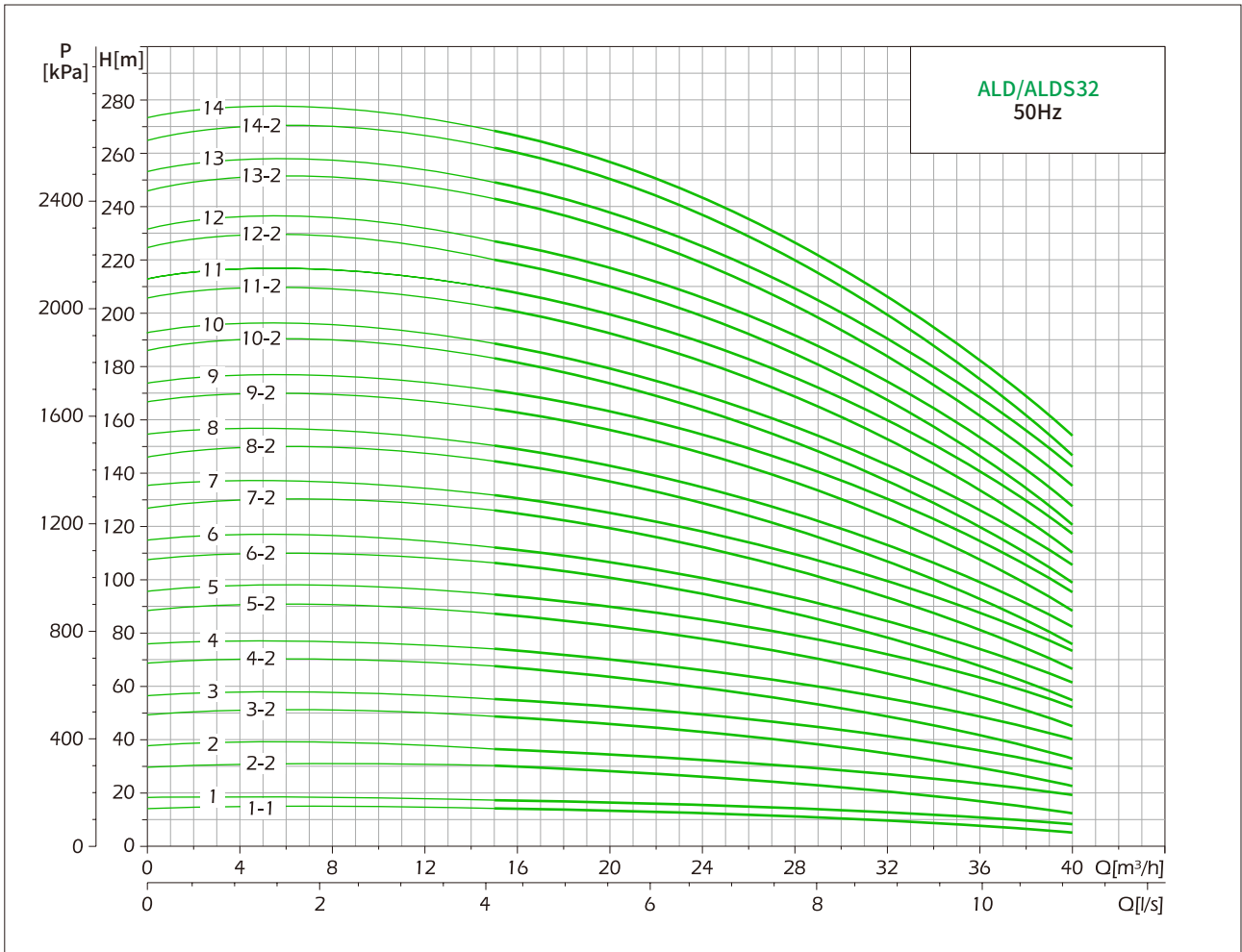




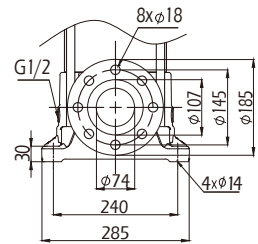
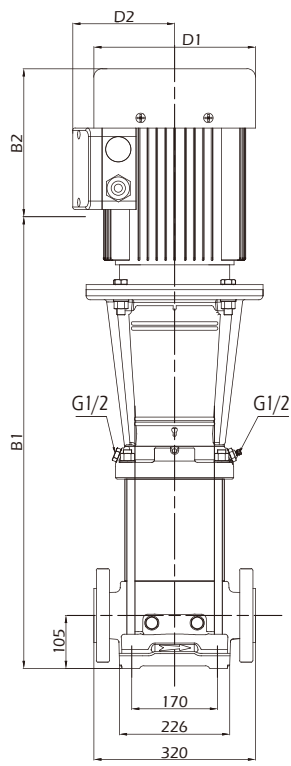


Model	Power(kW)	Q[m <sup>3</sup> /h]	10	12	16	18	20	24	26	29
ALD/ALDS20-1	1.1	H(m)	13	13	12	11	10.5	9	8	5
ALD/ALDS20-2	2.2		28	27	25	24	22.5	19	18	12
ALD/ALDS20-3	4.0		43	42	39	38	36	30	28	22
ALD/ALDS20-4	5.5		57	56	53	51	48	41	38	30
ALD/ALDS20-5	5.5		71	70	66	63	60	52	46	38
ALD/ALDS20-6	7.5		86	84	80	77	72	62	57	45
ALD/ALDS20-7	7.5		99	97	93	88	84	72	65	52
ALD/ALDS20-8	11.0		116	113	107	104	96	85	77	62
ALD/ALDS20-10	11.0		144	140	132	128	120	105	95	78
ALD/ALDS20-12	15.0		173	169	161	155	144	127	115	93
ALD/ALDS20-14	15.0		200	197	187	180	168	147	133	108
ALD/ALDS20-17	18.5		245	241	229	220	205	181	163	134

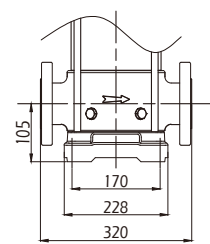
**PERFORMANCE CURVES**



**DIMENSION DRAWING**



FLANGE (ALD) PN16-25-40/DN65

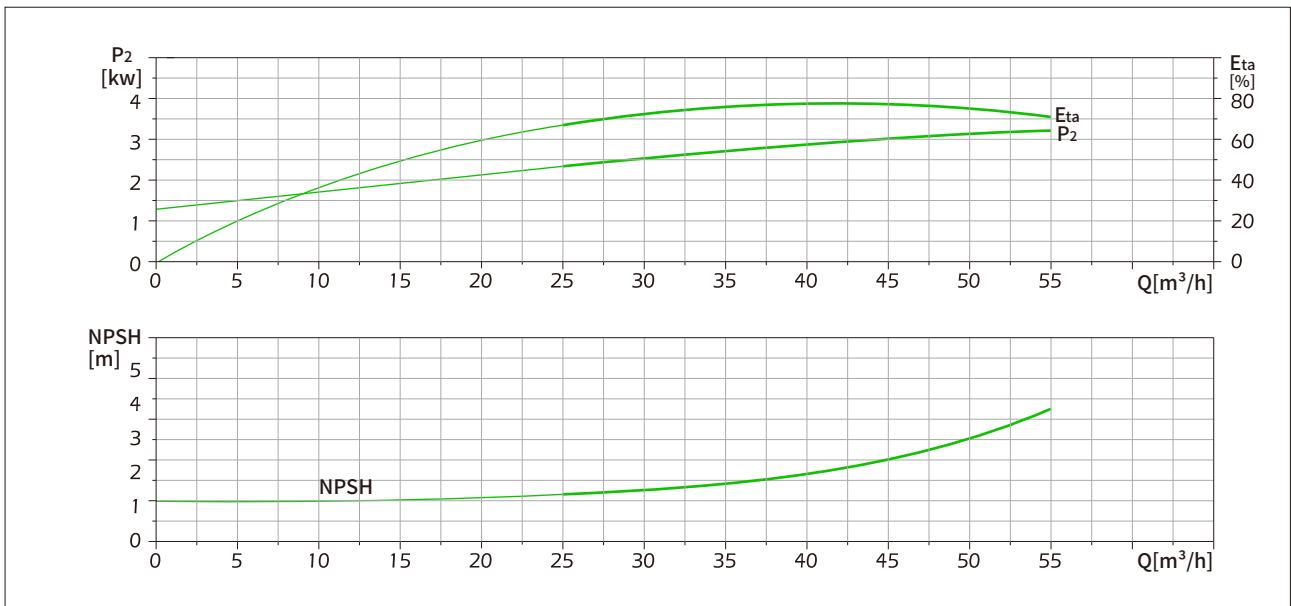
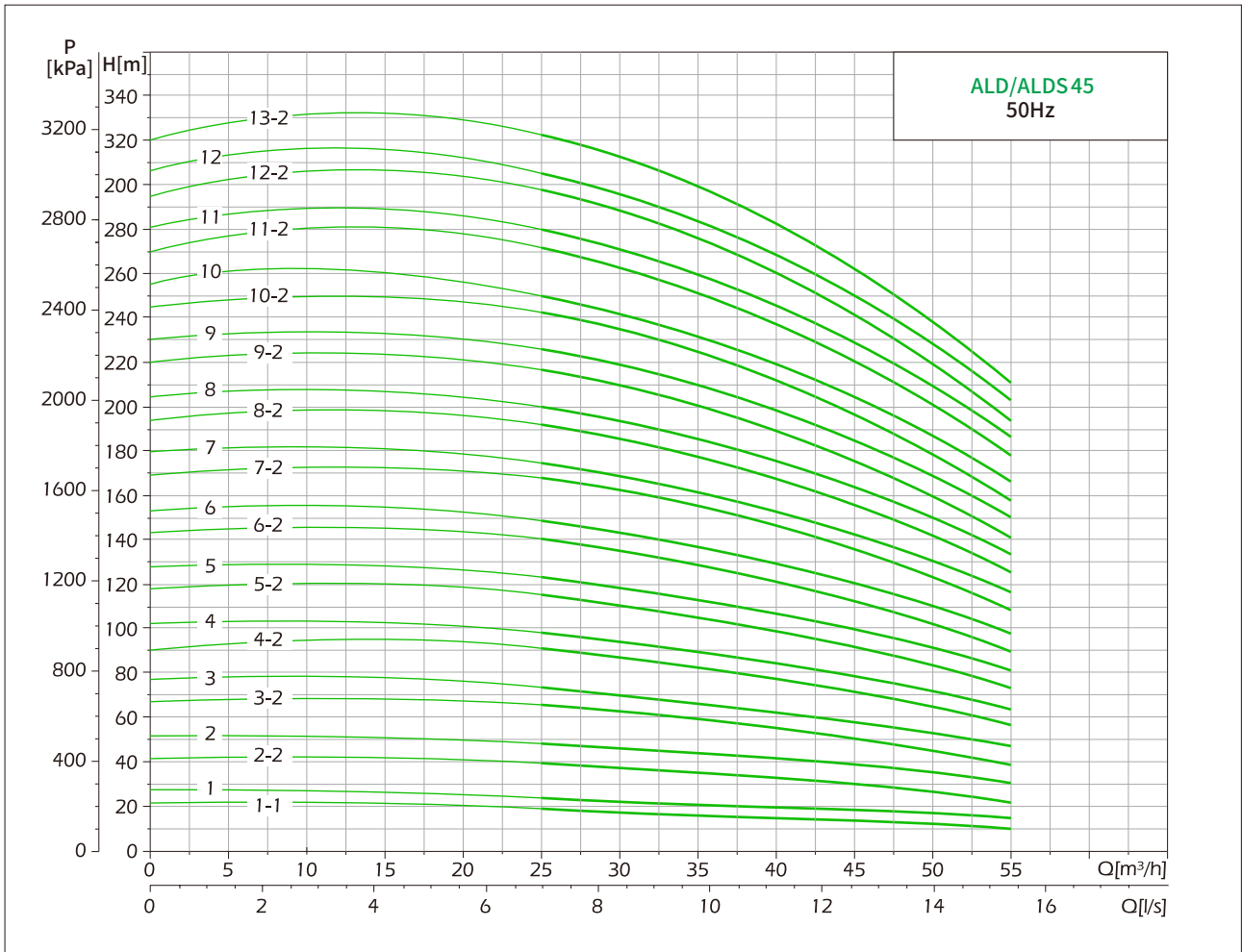


FLANGE (ALDS) PN16-25-40/DN65

Model	Size(mm)			
	B1	B1+B2	D1	D2
ALD/ALDS32-1-1	516	832	168	132
ALD/ALDS32-1	516	857	168	132
ALD/ALDS32-2-2	586	978	198	161
ALD/ALDS32-2	586	977	220	175
ALD/ALDS32-3-2	656	1082	260	195
ALD/ALDS32-3	656	1082	260	195
ALD/ALDS32-4-2	726	1152	260	195
ALD/ALDS32-4	726	1152	260	195
ALD/ALDS32-5-2	896	1439	350	233
ALD/ALDS32-5	896	1439	350	233
ALD/ALDS32-6-2	966	1509	350	233
ALD/ALDS32-6	966	1509	350	233
ALD/ALDS32-7-2	1036	1579	350	233
ALD/ALDS32-7	1036	1579	350	233
ALD/ALDS32-8-2	1106	1649	350	233
ALD/ALDS32-8	1106	1649	350	233
ALD/ALDS32-9-2	1176	1763	350	233
ALD/ALDS32-9	1176	1763	350	233
ALD/ALDS32-10-2	1246	1833	350	233
ALD/ALDS32-10	1246	1833	350	233
ALD/ALDS32-11-2	1316	2001	365	285
ALD/ALDS32-11	1316	2001	365	285
ALD/ALDS32-12-2	1386	2071	365	285
ALD/ALDS32-12	1386	2071	365	285
ALD/ALDS32-13-2	1456	2281	418	325
ALD/ALDS32-13	1456	2281	418	325
ALD/ALDS32-14-2	1526	2351	418	325
ALD/ALDS32-14	1526	2351	418	325

Model	Power(kW)	Q[m <sup>3</sup> /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	3.0		31	29.5	26.5	20.5	17.5	12
ALD/ALDS32-2	4.0		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	

PERFORMANCE CURVES



### DIMENSION DRAWING

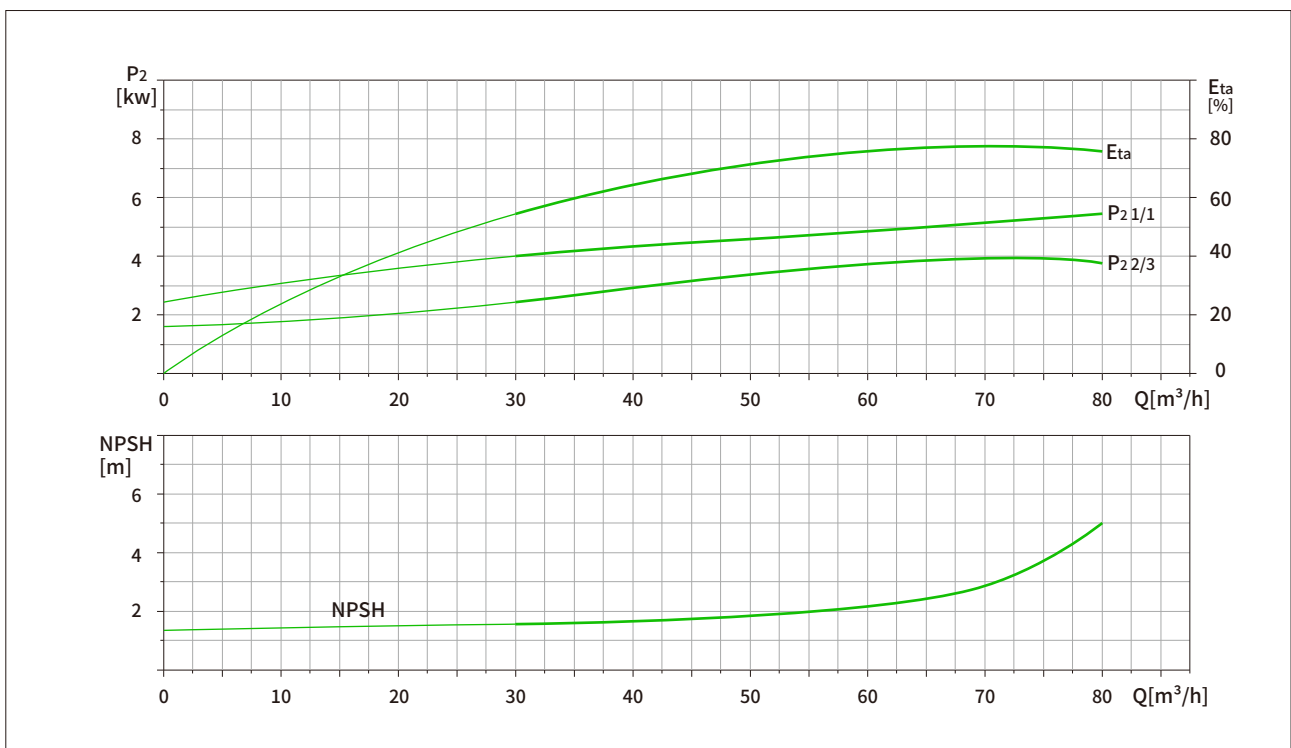
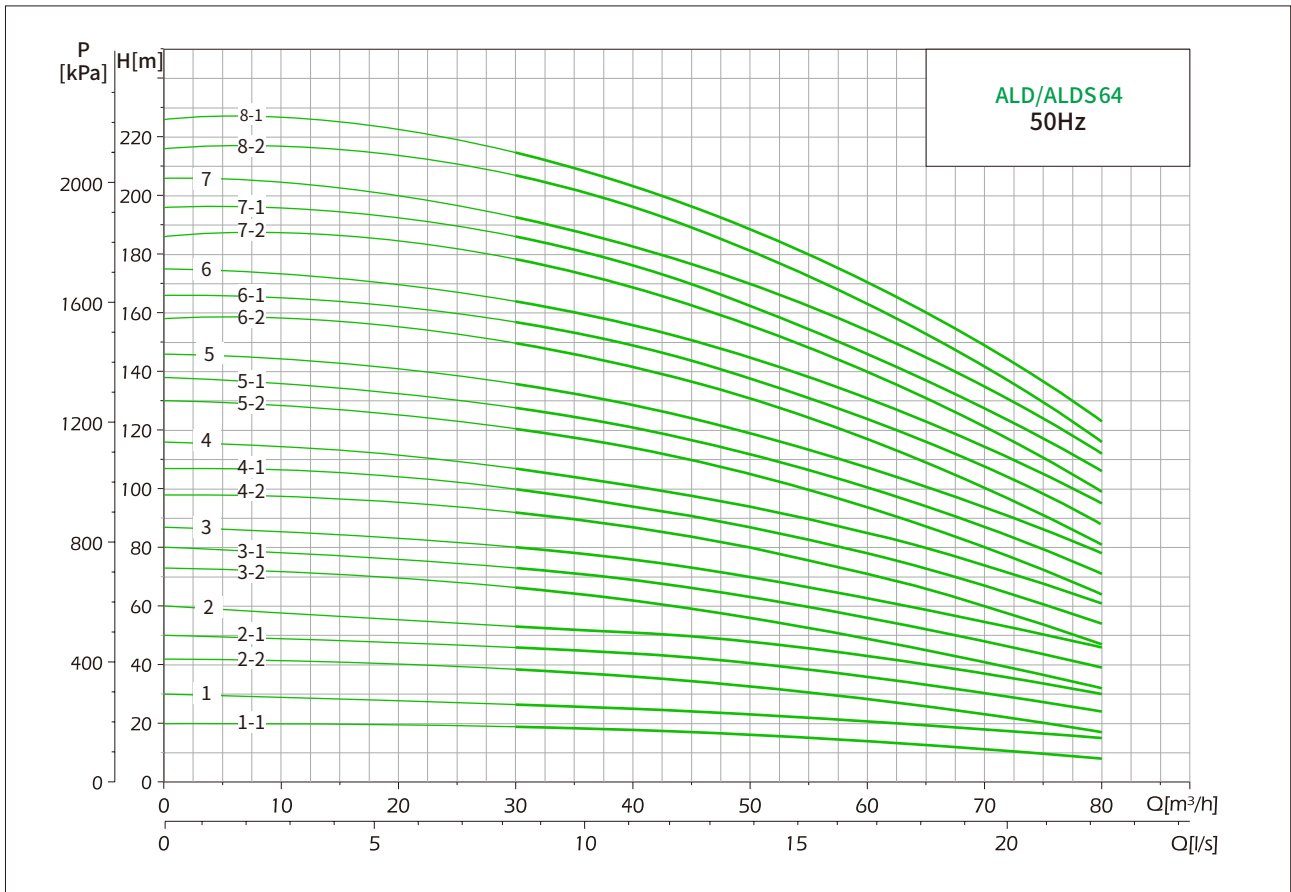
FLANGE (ALD) PN16-25-40/DN80

FLANGE (ALD) PN16-25-40/DN80

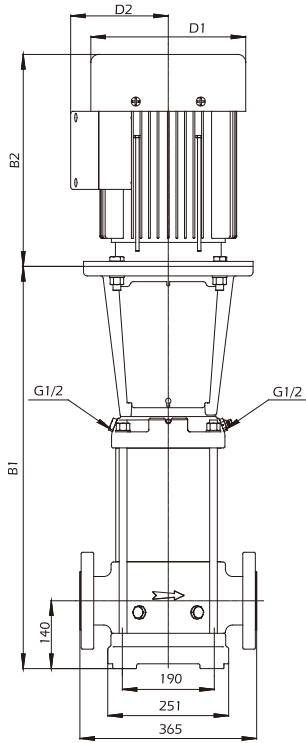
Model	Size(mm)			
	B1	B1+B2	D1	D2
ALD/ALDS45-1-1	571	963	198	161
ALD/ALDS45-1	571	962	220	175
ALD/ALDS45-2-2	651	1077	260	195
ALD/ALDS45-2	651	1077	260	195
ALD/ALDS45-3-2	831	1374	350	233
ALD/ALDS45-3	831	1374	350	233
ALD/ALDS45-4-2	911	1454	350	233
ALD/ALDS45-4	911	1454	350	233
ALD/ALDS45-5-2	991	1578	350	233
ALD/ALDS45-5	991	1578	350	233
ALD/ALDS45-6-2	1071	1756	365	285
ALD/ALDS45-6	1071	1756	365	285
ALD/ALDS45-7-2	1151	1976	418	325
ALD/ALDS45-7	1151	1976	418	325
ALD/ALDS45-8-2	1231	2056	418	325
ALD/ALDS45-8	1231	2056	418	325
ALD/ALDS45-9-2	1311	2136	418	325
ALD/ALDS45-9	1311	2136	418	325
ALD/ALDS45-10-2	1391	2216	418	325
ALD/ALDS45-10	1391	2216	418	325
ALD/ALDS45-11-2	1471	2311	465	350
ALD/ALDS45-11	1471	2311	465	350
ALD/ALDS45-12-2	1551	2391	465	350
ALD/ALDS45-12	1551	2391	465	350
ALD/ALDS45-13-2	1631	2471	465	350

Model	Power(kW)	Q[m <sup>3</sup> /h]	25	30	35	40	45	50	55
ALD/ALDS45-1-1	3.0	H(m)	20	19.5	18	17	15	12.5	10.5
ALD/ALDS45-1	4.0		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	

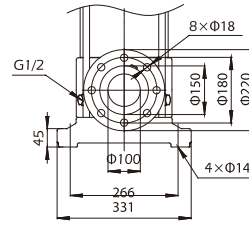
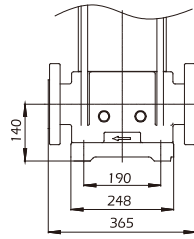
**PERFORMANCE CURVES**



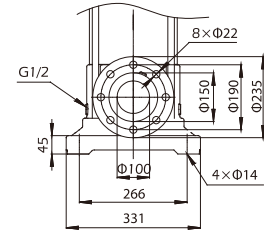
**DIMENSION DRAWING**



FLANGE (ALD) PN16-25-40/DN100



FLANGE (ALDS) PN16/DN100

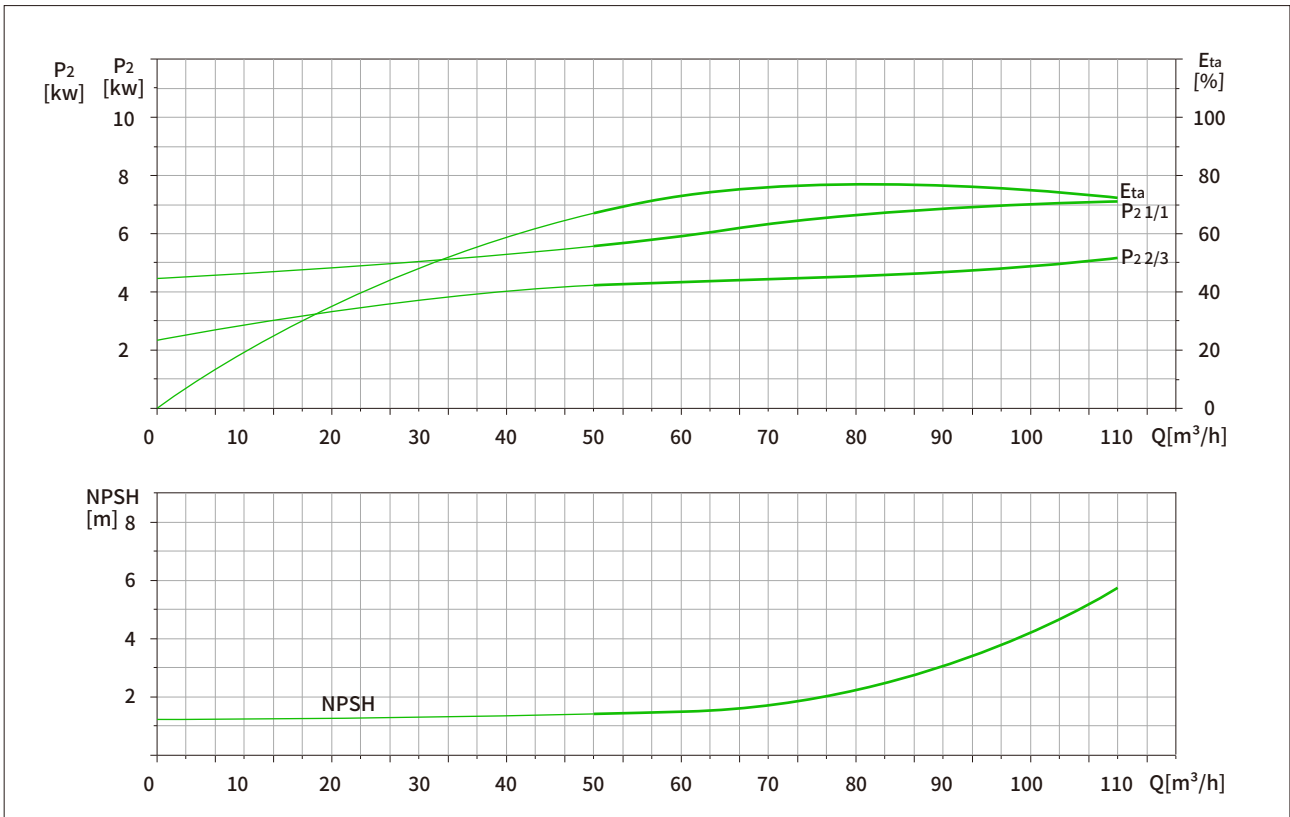
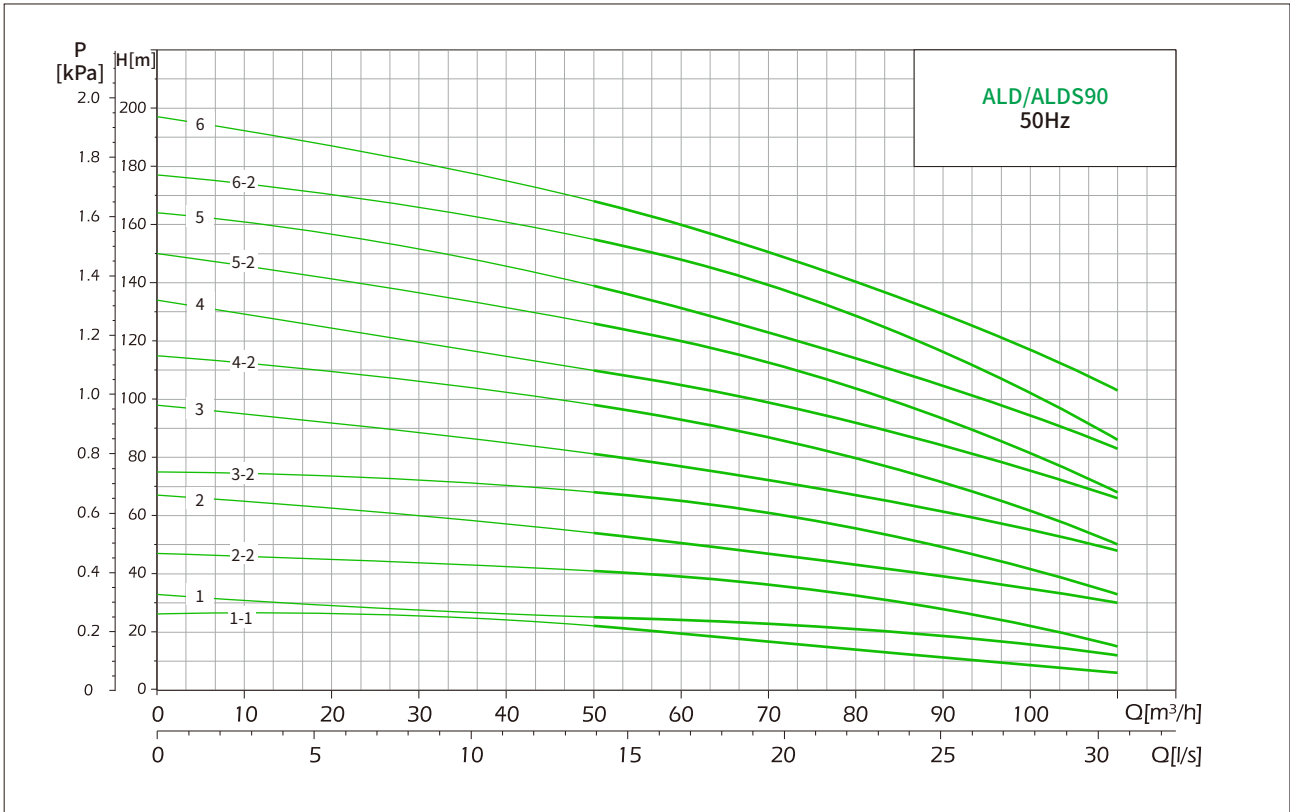


FLANGE (ALDS) PN25-40/DN100

Model	Size(mm)			
	B1	B1+B2	D1	D2
ALD/ALDS64-1-1	561	952	220	175
ALD/ALDS64-1	561	987	260	195
ALD/ALDS64-2-2	644	1070	260	195
ALD/ALDS64-2-1	754	1297	350	233
ALD/ALDS64-2	754	1297	350	233
ALD/ALDS64-3-2	836	1379	350	233
ALD/ALDS64-3-1	836	1379	350	233
ALD/ALDS64-3	836	1423	350	233
ALD/ALDS64-4-2	919	1506	350	233
ALD/ALDS64-4-1	919	1604	365	285
ALD/ALDS64-4	919	1604	365	285
ALD/ALDS64-5-2	1001	1826	418	325
ALD/ALDS64-5-1	1001	1826	418	325
ALD/ALDS64-5	1001	1826	418	325
ALD/ALDS64-6-2	1084	1909	418	325
ALD/ALDS64-6-1	1084	1909	418	325
ALD/ALDS64-6	1084	1909	418	325
ALD/ALDS64-7-2	1166	1991	418	325
ALD/ALDS64-7-1	1166	1991	418	325
ALD/ALDS64-7	1166	2006	465	350
ALD/ALDS64-8-2	1248	2088	465	350
ALD/ALDS64-8-1	1248	2088	465	350

Model	Power(kW)	Q[m <sup>3</sup> /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	

**PERFORMANCE CURVES**





### DIMENSION DRAWING

Model	Size(mm)			
	B1	B1+B2	D1	D2
ALD/ALDS90-1-1	571	997	260	195
ALD/ALDS90-1	571	997	260	195
ALD/ALDS90-2-2	773	1316	350	233
ALD/ALDS90-2	773	1316	350	233
ALD/ALDS90-3-2	865	1452	350	233
ALD/ALDS90-3	865	1550	365	285
ALD/ALDS90-4-2	957	1782	418	325
ALD/ALDS90-4	957	1782	418	325
ALD/ALDS90-5-2	1049	1874	418	325
ALD/ALDS90-5	1049	1874	418	325
ALD/ALDS90-6-2	1141	1981	465	350
ALD/ALDS90-6	1141	1981	165	350

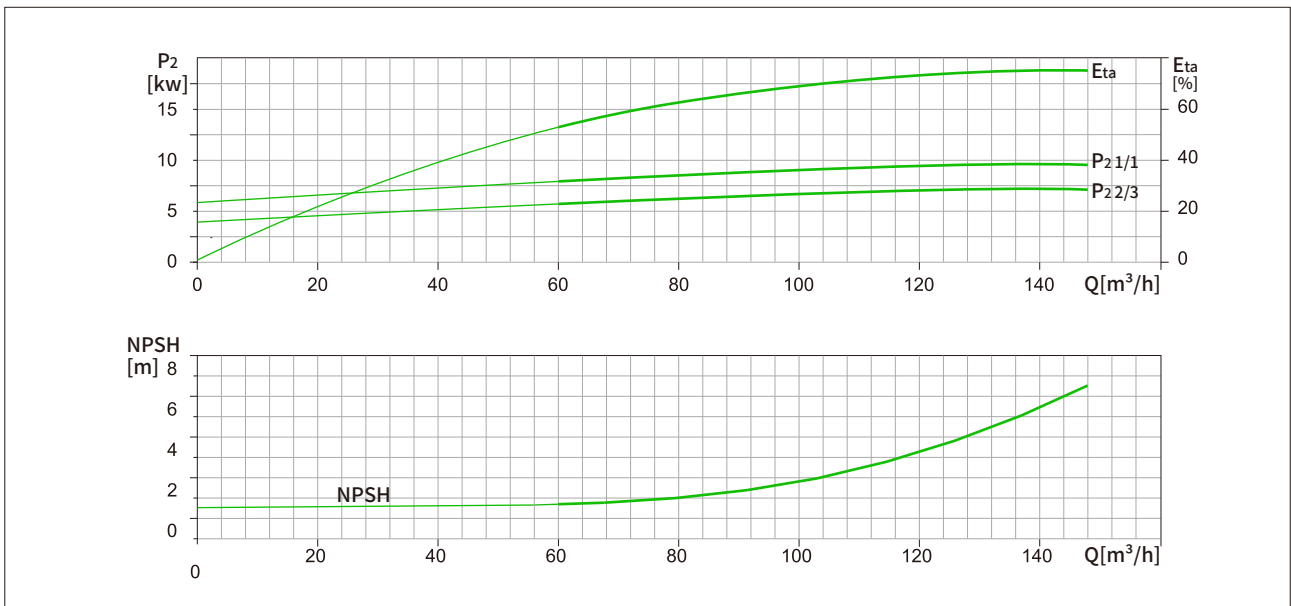
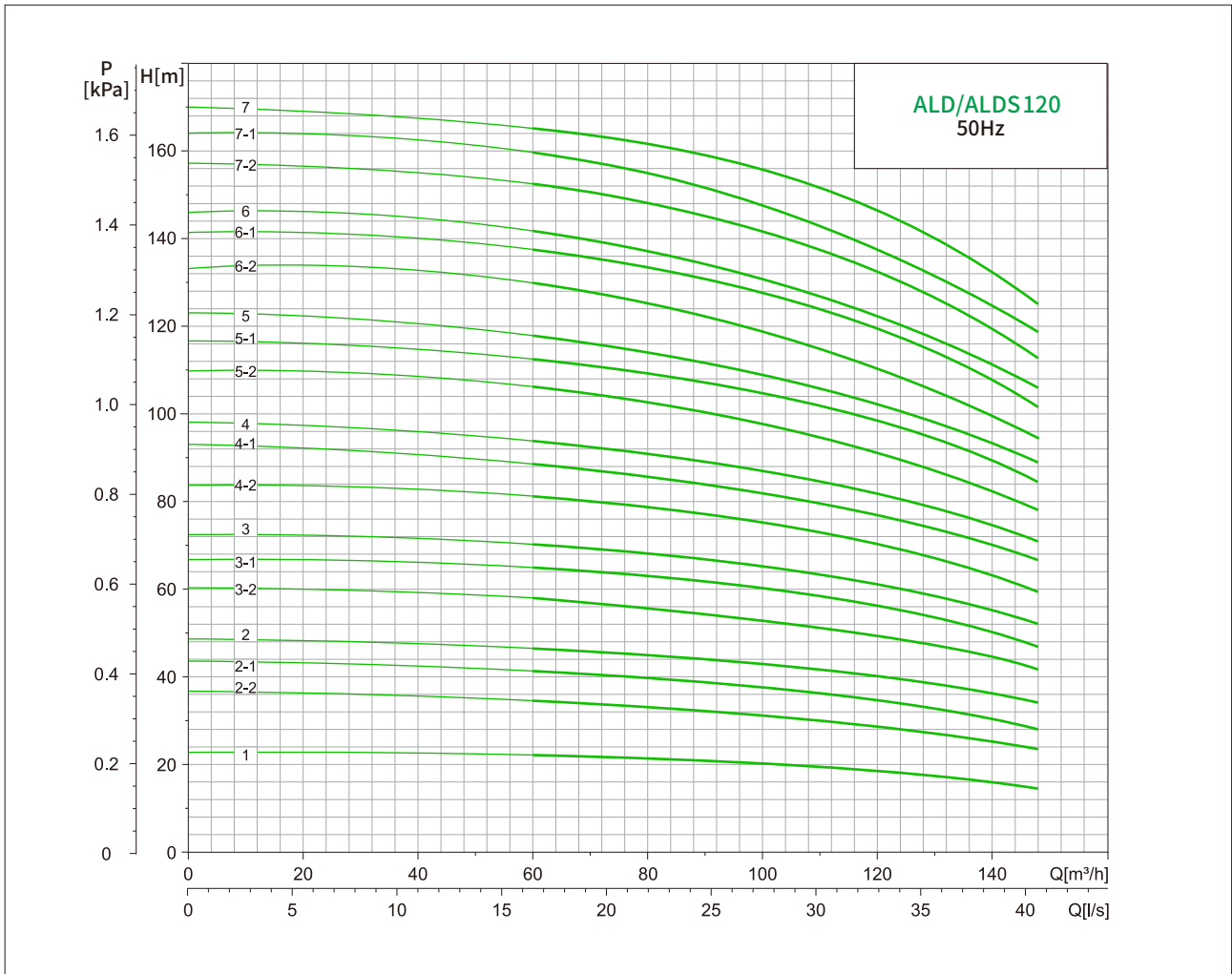
FLANGE (ALD) PN16-25-40/DN100

FLANGE (ALDS) PN16/DN100

FLANGE (ALDS) PN25-40/DN100

Model	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

**PERFORMANCE CURVES**

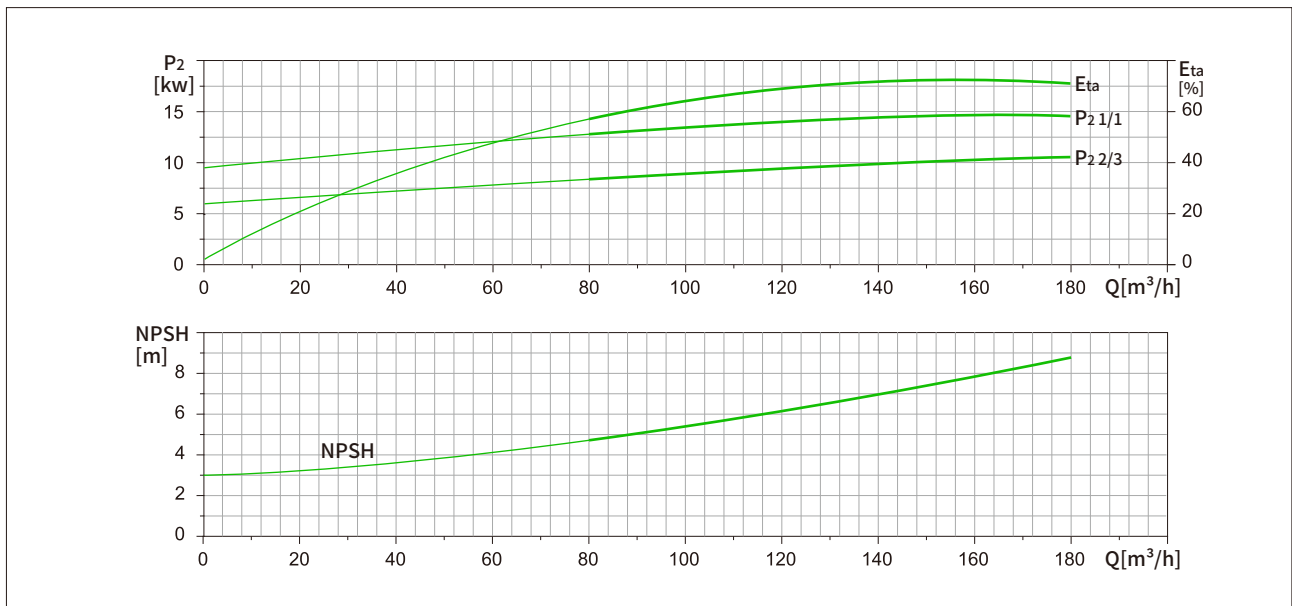
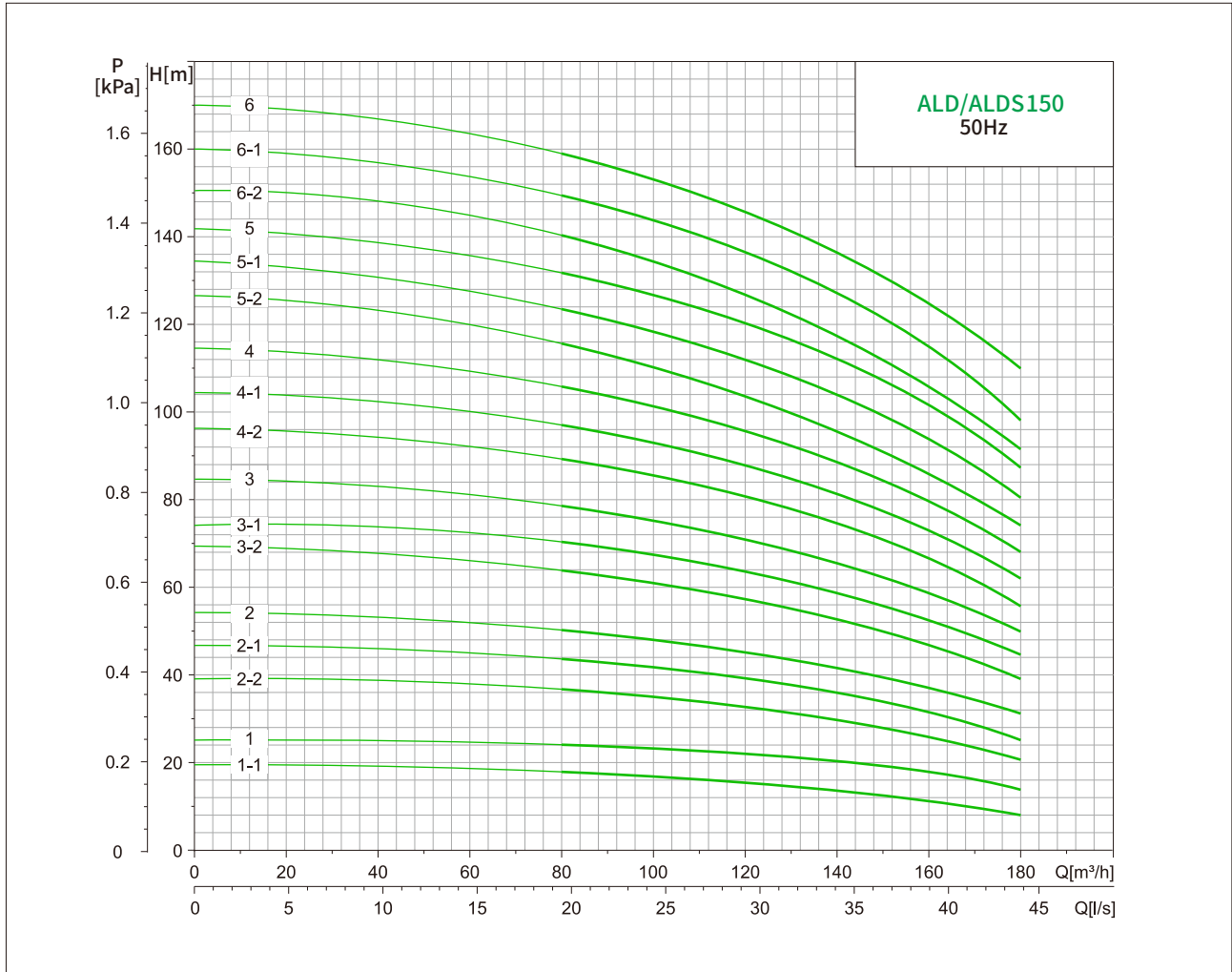


### DIMENSION DRAWING

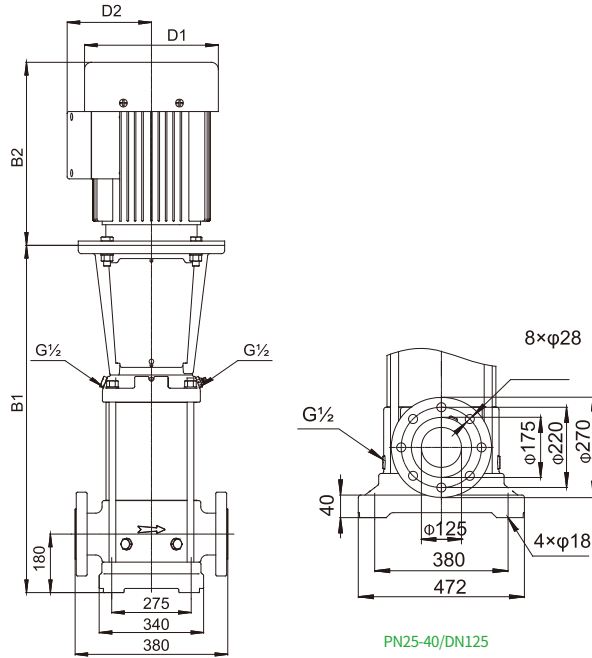
Model	Size(mm)			
	B1	B1+B2	D1	D2
ALD/ALDS120-1	840	1383	350	233
ALD/ALDS120-2-2	1000	1543	350	233
ALD/ALDS120-2-1	1000	1587	350	233
ALD/ALDS120-2	1000	1685	365	285
ALD/ALDS120-3-2	1160	1985	418	325
ALD/ALDS120-3-1	1160	1985	418	325
ALD/ALDS120-3	1160	1985	418	325
ALD/ALDS120-4-2	1320	2145	418	325
ALD/ALDS120-4-1	1320	2145	418	325
ALD/ALDS120-4	1320	2160	465	350
ALD/ALDS120-5-2	1480	2320	465	350
ALD/ALDS120-5-1	1480	2320	465	350
ALD/ALDS120-5	1510	2480	525	405
ALD/ALDS120-6-2	1670	2640	525	405
ALD/ALDS120-6-1	1670	2640	525	405
ALD/ALDS120-6	1670	2635	588	435
ALD/ALDS120-7-2	1830	2795	588	435
ALD/ALDS120-7-1	1830	2795	588	435
ALD/ALDS120-7	1830	2795	588	435

Model	Power(kW)	Q[m <sup>3</sup> /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

**PERFORMANCE CURVES**



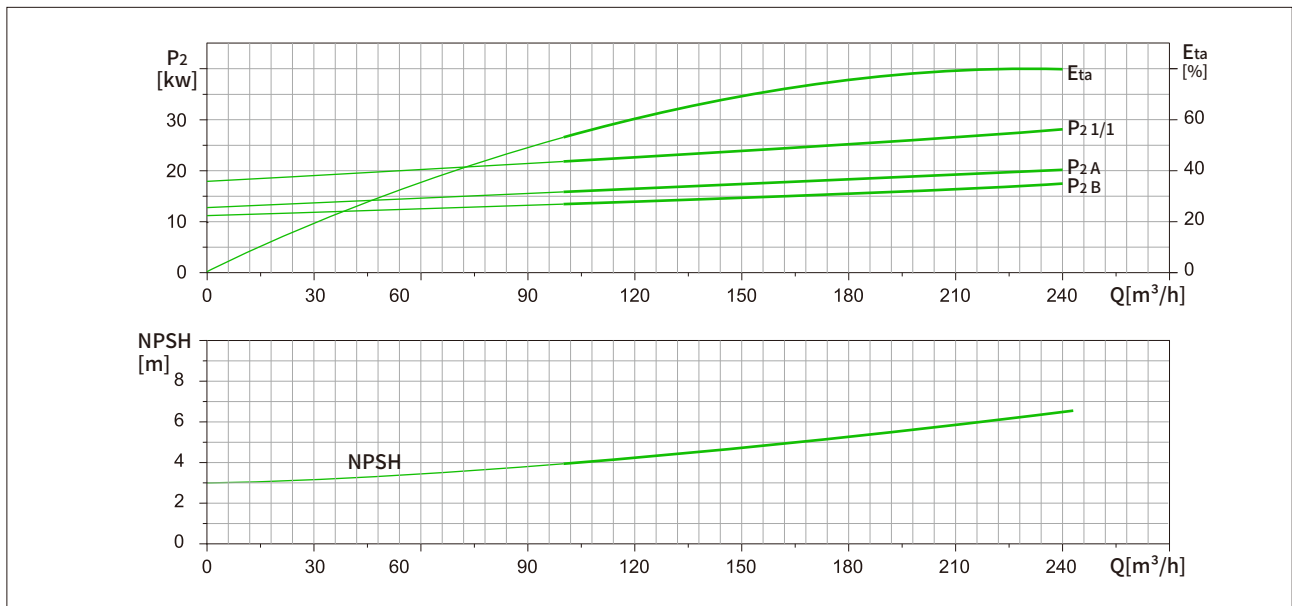
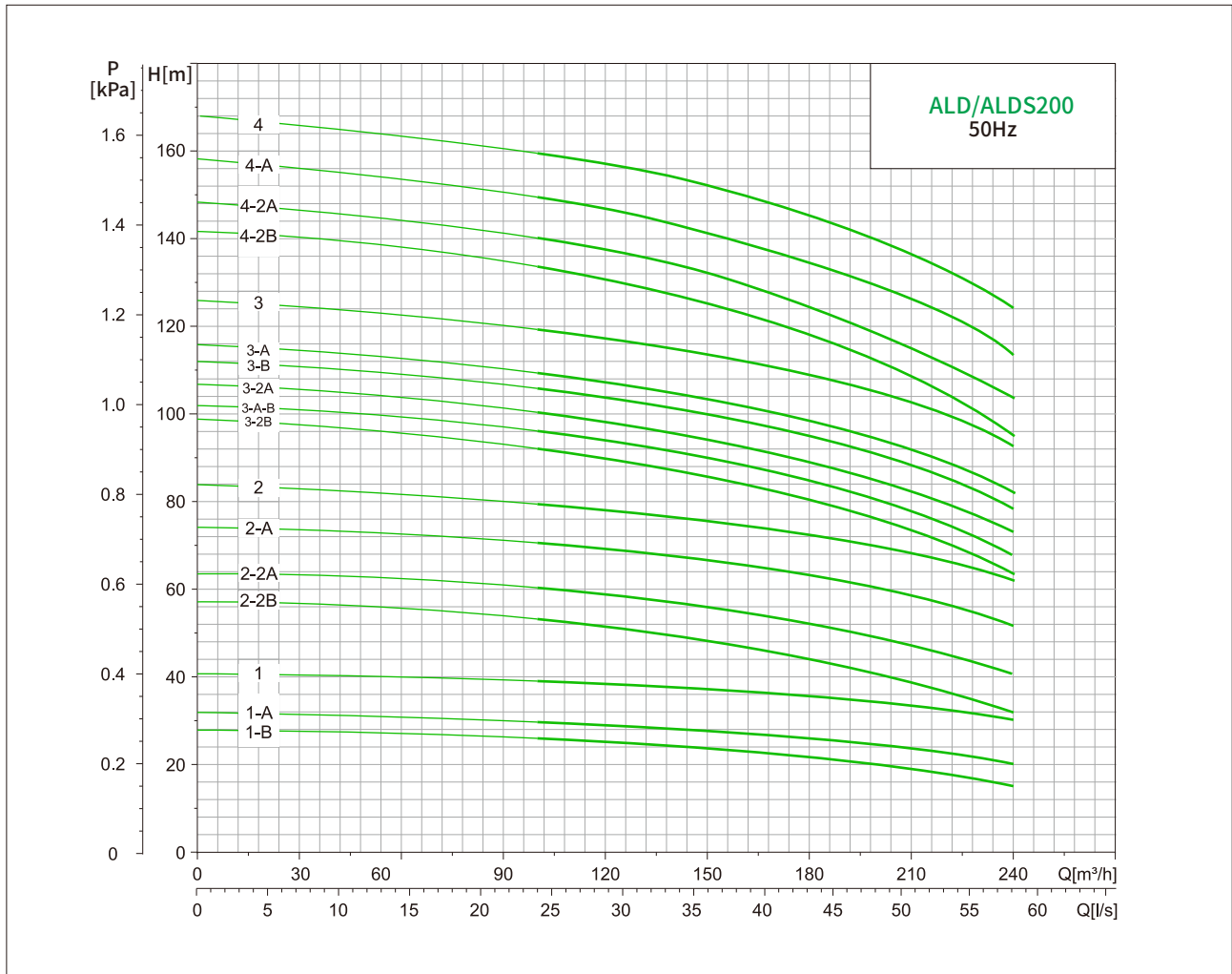
**DIMENSION DRAWING**



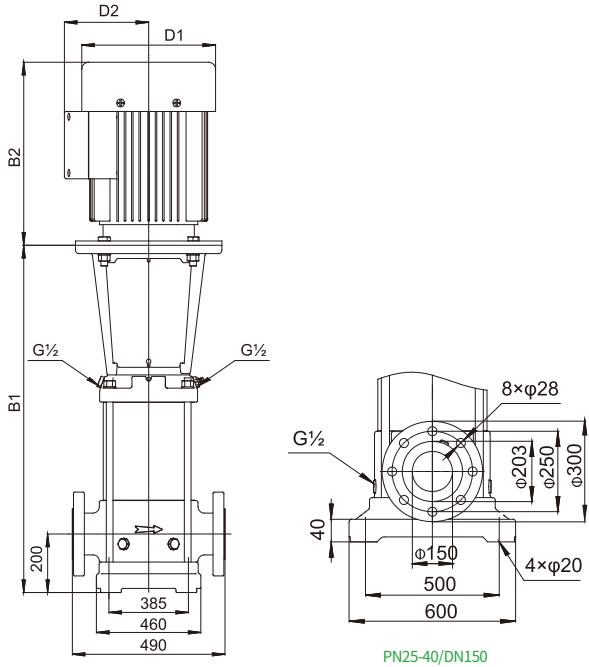
Model	Size(mm)			
	B1	B1+B2	D1	D2
ALD/ALDS150-1-1	840	1383	350	233
ALD/ALDS150-1	840	1383	350	233
ALD/ALDS150-2-2	1000	1587	350	233
ALD/ALDS150-2-1	1000	1685	365	285
ALD/ALDS150-2	1000	1825	418	325
ALD/ALDS150-3-2	1160	1985	418	325
ALD/ALDS150-3-1	1160	1985	418	325
ALD/ALDS150-3	1160	1985	418	325
ALD/ALDS150-4-2	1320	2160	465	350
ALD/ALDS150-4-1	1320	2160	465	350
ALD/ALDS150-4	1350	2320	525	405
ALD/ALDS150-5-2	1510	2480	525	405
ALD/ALDS150-5-1	1510	2475	588	435
ALD/ALDS150-5	1510	2475	588	435
ALD/ALDS150-6-2	1670	2635	588	435
ALD/ALDS150-6-1	1670	2635	588	435
ALD/ALDS150-6	1670	2635	588	435

Model	Power(kW)	Q[m <sup>3</sup> /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

PERFORMANCE CURVES



**DIMENSION DRAWING**



Model	Size(mm)			
	B1	B1+B2	D1	D2
ALD/ALDS200-1-B	907	1494	350	233
ALD/ALDS200-1-A	907	1592	365	285
ALD/ALDS200-1	907	1732	418	325
ALD/ALDS200-2-2B	1101	1926	418	325
ALD/ALDS200-2-2A	1101	1941	465	350
ALD/ALDS200-2-A	1131	2101	525	405
ALD/ALDS200-2	1131	2101	525	405
ALD/ALDS200-3-2B	1325	2290	588	435
ALD/ALDS200-3-A-B	1325	2290	588	435
ALD/ALDS200-3-2A	1325	2290	588	435
ALD/ALDS200-3-B	1325	2290	588	435
ALD/ALDS200-3-A	1325	2290	588	435
ALD/ALDS200-3	1325	2322	588	435
ALD/ALDS200-4-2B	1519	2516	588	435
ALD/ALDS200-4-2A	1519	2734	620	555
ALD/ALDS200-4-A	1519	2734	620	555
ALD/ALDS200-A	1519	2734	620	555

Model	Power(kW)	Q[m <sup>3</sup> /h]	100	120	140	160	180	200	220	240
ALD/ALDS200-1-B	18.5	H(m)	25.5	25	24	23	21.5	20	18	15.5
ALD/ALDS200-1-A	22		29	28.5	27.5	26.5	25.5	24	22	20
ALD/ALDS200-1	30		38.5	38	37.5	36.5	35	34	32.5	30
ALD/ALDS200-2-2B	37		53	51	49	47	44	41	37	32
ALD/ALDS200-2-2A	45		59.5	58	56	54	52.5	49	44.5	40.5
ALD/ALDS200-2-A	55		69	68	66	64	62	59	55.5	51
ALD/ALDS200-2	55		78.5	77.5	76	74	71.5	69	66	61.5
ALD/ALDS200-3-2B	75		91.5	89	86.5	83.5	79	75	70	63
ALD/ALDS200-3-A-B	75		95	93	90	87	83.5	79	73.5	67
ALD/ALDS200-3-2A	75		99.5	97.5	94.5	91.5	89	84	78.5	72
ALD/ALDS200-3-B	75		104.5	102.5	100	97	93	89	84.5	77.5
ALD/ALDS200-3-A	75		108	106	103.5	100.5	97.5	93	88	81.5
ALD/ALDS200-3	90		117.5	116	113.5	110.5	107	103	99	92
ALD/ALDS200-4-2B	90		131.5	129	125.5	121	115.5	110	103.5	94
ALD/ALDS200-4-2A	110		138.5	136	132	128	124	118	111	102.2
ALD/ALDS200-4-A	110		148	145.5	142.5	138	134	128	122	113
ALD/ALDS200-4	110		157.5	155.5	152.5	148	143.5	138	132.5	123.5



Version:20240808

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**LAIKO**

Data for Reference Only: Any changes are subject to notice without prior notification