

# **CDL/CDLF**

50Hz

Vertical Multistage Centrifugal Pumps

**MMB**  
Morsbach Maschinen Bau GmbH.

# **CDL/CDLF**

50Hz

Vertical Multistage Centrifugal Pumps

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## CONTENTS

Light Vertical Multistage Centrifugal Pump

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## CERTIFICATES

And Quality Control

Our products are certified with CE and CB, and our company is accredited with ISO 9001:2008. Each manufacturing process is strictly monitored by our QC team to ensure consistent and reliable quality. This dedication to excellence has earned us strong recognition in Europe, the Middle East, and Southeast Asia markets.



## MANUFACTURING

Capability

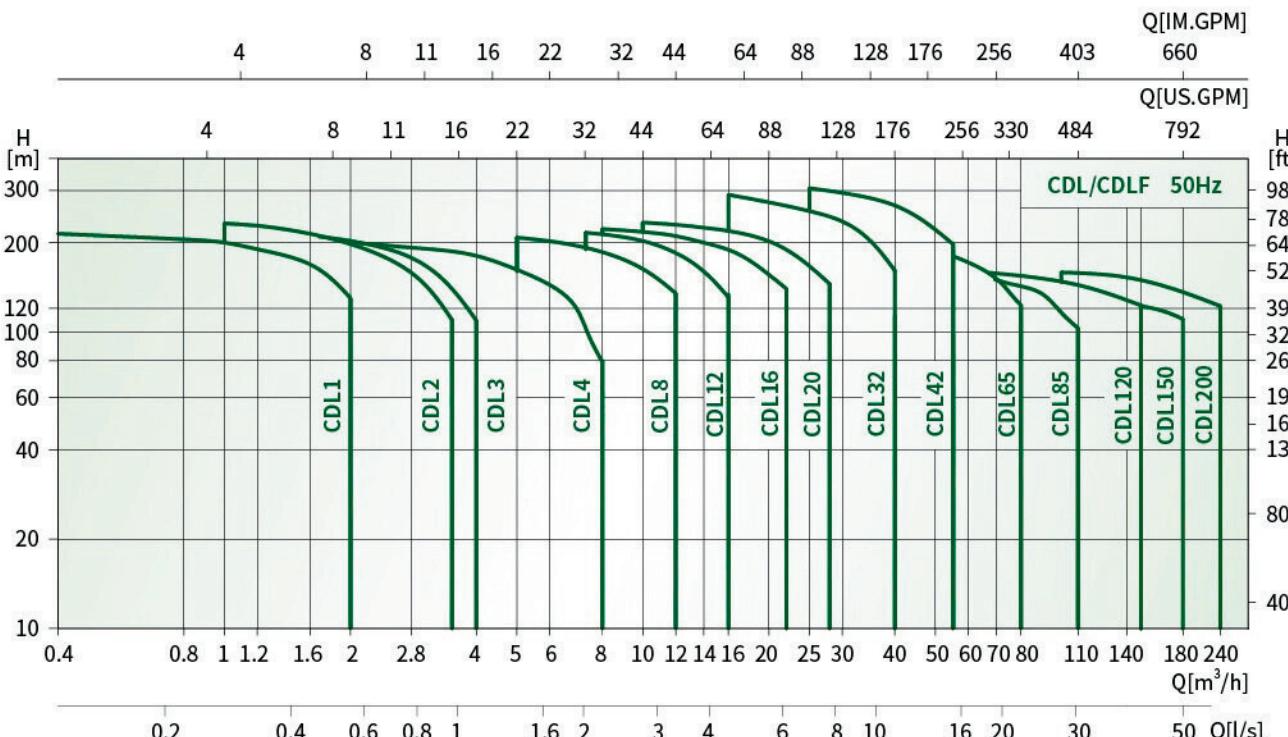
We adhere to the strict quality standards, inspired by renowned Italian global pump manufacturers. With decades of experience, rigorous quality control, secure packaging, and efficient delivery, we ensure reliable and superior products for our customers.





## General Data

### Performance Scope



### Product Range

Description	CDL1	CDL2	CDL3	CDL4	CDL8	CDL12	CDL16	CDL20	CDL32	CDL42	CDL65	CDL85	CDL120	CDL150	CDL200
Rated flow [m³/h]	1	2	3	4	8	12	16	20	32	42	65	85	120	150	200
Rated flow [l/s]	0.28	0.56	0.83	1.1	2.2	3.3	4.4	5.6	8.9	11.7	18	24	33	41.6	55.6
Flow range [m³/h]	0.4-2	1-3.5	1.2-4	1.5-7	5-12	7-16	8-22	10-28	16-40	25-55	30-80	50-110	60-150	80-180	100-240
Flow range[l/s]	0.11-0.56	0.28-0.97	0.33-1.1	0.42-1.9	1.4-3.3	1.9-4.4	2.2-6.1	2.8-7.8	4.4-11.1	6.9-15.3	8.3-22.2	13.8-30.5	16.7-41.7	22-50	27.8-66.7
Max. pressure[bar]	21	23	22	21	21	22	22	23	29	30	22	17	16	16	16
Motor power [kW]	0.37-2.2	0.37-3	0.37-3	0.37-4	0.75-7.5	1.5-11	2.2-15	1.1-18.5	1.5-3.0	3.0-45	4.0-45	5.5-45	11-75	11-75	18.5-110
Temperature range [°C]	-15~+120														
Max. efficiency [%]	44	46	54	57	62	63	66	69	73	75	76	77	74	73	79
Type															
CDL	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
CDLF	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
CDL Pipe connection															
DIN Flange	DN25	DN25	DN25	DN32	DN40	DN50	DN50	DN65	DN80	DN100	DN100	DN125	DN125	DN150	DN150
Oval Flange	G1	G1	G1	G1 <sup>1/4</sup>	G1 <sup>1/2</sup>										
CDLF Pipe connection															
DIN Flange	DN25	DN25	DN25	DN32	DN40	DN50	DN50	DN65	DN80	DN100	DN100	DN125	DN125	DN150	DN150
Coupling joint	DN32	DN32	DN32	DN32	DN50	DN50	DN50	DN50	DN50	DN50	DN50	DN50	DN50	DN50	DN50
Pipe thread	ZG1 <sup>1/4</sup>	ZG1 <sup>1/4</sup>	ZG1 <sup>1/4</sup>	ZG1 <sup>1/4</sup>	ZG2	ZG2	ZG2	ZG2	ZG2	ZG2	ZG2	ZG2	ZG2	ZG2	ZG2
Oval Flange	G1	G1	G1	G1 <sup>1/4</sup>	G1 <sup>1/2</sup>										

## General Data

### Pump Selection

Selection of pumps should be based on:

- the duty point of the pump
- Pump materials
- Pump duty point
- Pipe connections
- Shaft seal
- Dimensional data such as pressure loss as a result of height differences, friction loss in the pipework, pump efficiency etc.

### Pump Material

The material variant (CDLF) should be selected based on the liquid to be pumped.  
CDLF wetted parts are made of AISI304.  
CDL pump body is made of cast-iron and wetted parts are made of AISI304.

### Pump Connections

Selection of pump connection depends on the rated pressure and pipework. To meet any requirement the CDL/CDLF pump offers a wide range of flexible connection such as

- DIN flange
- Thread
- Other connections on request

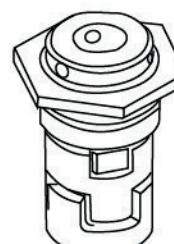


DIN FLANGE      THREAD      PJE COUPLING

### Shaft Seal

As standard, the CDL/CDLF range is fitted with a cartridge type suitable for the most common applications. the following key parameters must be taken in to account, when selecting the shaft seal:

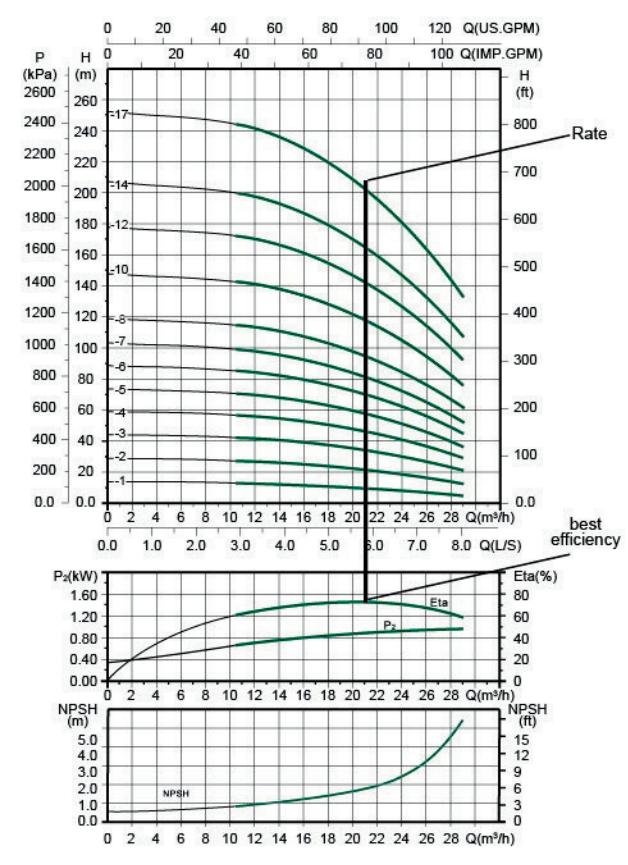
- Type of pumped liquid
- Liquid temperature
- Maximum pressure



Shaft seal (cartridge type)

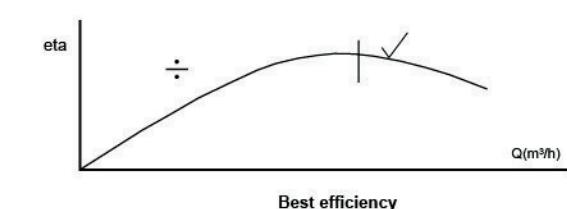
### Duty point of the pump

From a duty point it is possible to select a pump on the basis of the curve charts shown in "performance curves/technical" data.



Example of duty point

As the pump is sized on the basis of the highest possible flow, it is important always to have the duty point to the right on the efficiency curve(eta) in order to keep efficiency high when the flow drops.



Best efficiency

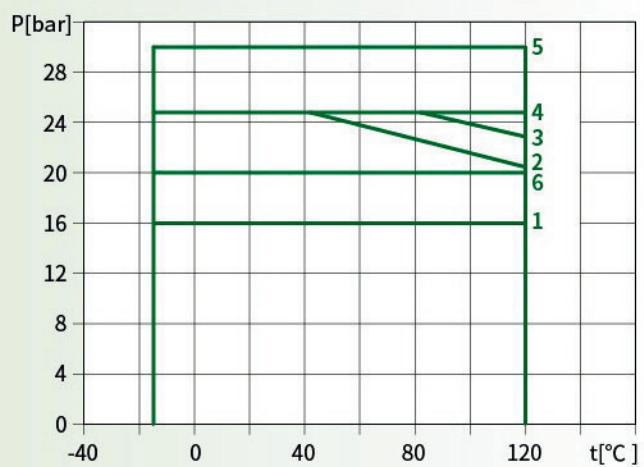
## General Data

### Max. Working Pressure

Model	Curve number
CDL 1,2,3,4 Flange	2
CDL 1,2,3,4 Oval Flange	1
CDLF 1,2,3,4	2
CDL 8,12,16,20 Flange	3
CDL 8 Oval Flange	1
CDLF 8,12,16,20	3
CDL, CDLF32	
32-10-1~32-70	1(*)
32-80-2~32-120	4(*)
32-130~32-160	5
CDL, CDLF42	
42-10-1~42-60	1(*)
42-70-2~42-90	4(*)
42-100-2~42-130-2	5
CDL, CDLF65	
65-10-1~65-50	1(**)
65-60-2~65-80-1	4
CDL, CDLF85	
85-10-1~85-50-2	1(**)
85-50-85-60	4
CDL,CDLF120,150,200	6

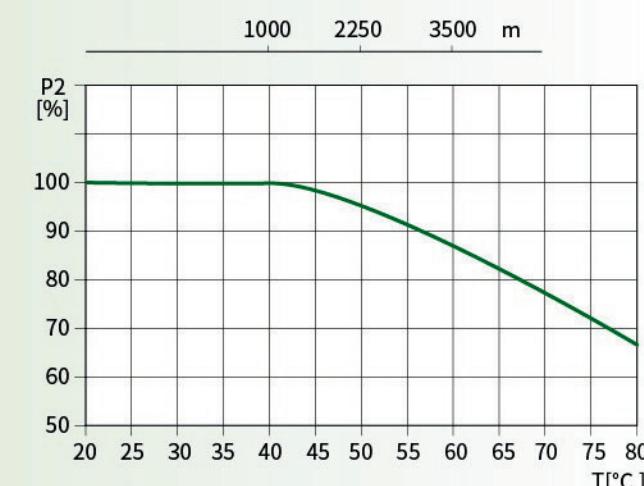
\*: For curve 5, need to specify especially;  
\*\*: For curve 4, need to specify especially.

The following figure shows the limitation of pressure and temperature, which shall be in the scope as shown in the figure.



### Max. Ambient Temperature

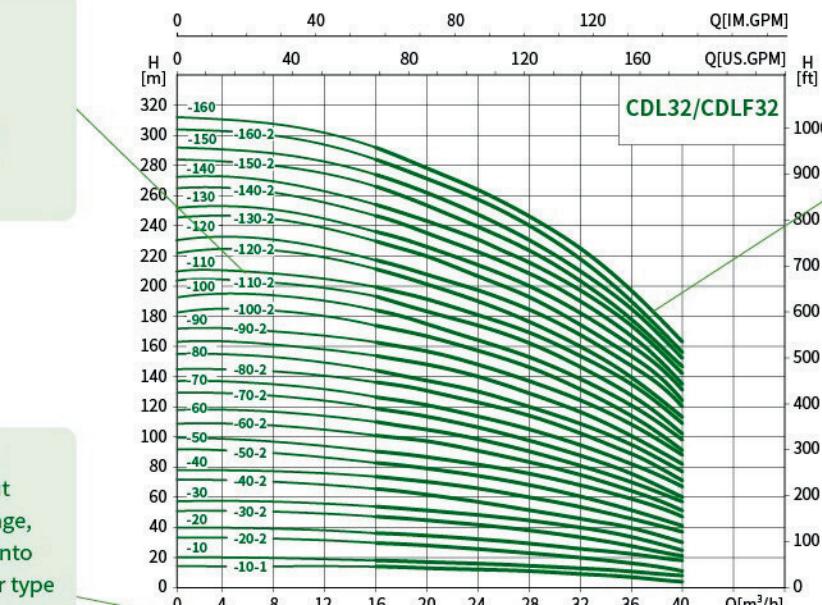
When the pump operates under ambient temperature higher than 40°C or under altitude higher than 1000m, because of low air density and poor cooling effects, the motor output power P2 will be decreased to certain extent. If the pump is operated under the above-said conditions, it should be equipped with motor of higher power.



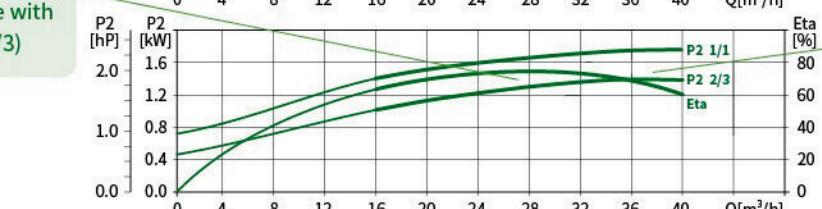
## General Data

### Curve Illustration

Stage  
First number:  
Stage X 10  
Second number:  
Number of small  
impeller

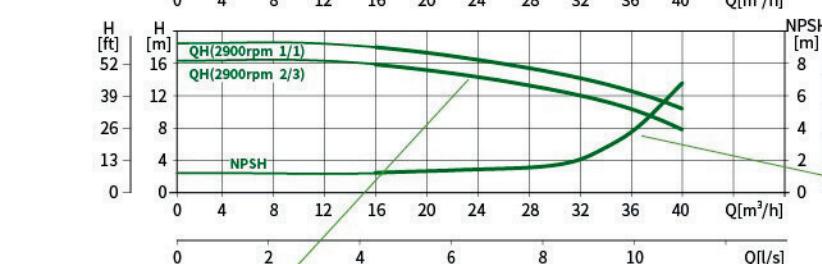


The power curve presents the input power of each stage, which is divided into integrate impeller type (1/1) and the type with small impeller (2/3)



Pump Q-H curve,  
the thickened  
line presents  
recommended  
performance region

Eta curve presents  
efficiency of the  
pump. For the pump  
equipped with small  
impeller, its efficiency  
will be 2% lower than  
that shown by the  
curve.



NPSH curve expresses  
the average value of all  
curves of this series. A  
safety margin of 0.5m  
shall be taken into  
consideration when  
making selection.

The Q-H curve of each stage, presenting integrate impeller type (1/1) and the type equipped with small impeller (2/3).

### Performance Curve

Following conditions are suitable for the performance curves shown below:

1. All curves are based on the measured values of 50Hz: constant motor speed 2900rpm or 2950rpm.
2. Curve tolerance in conformity with ISO9906 Annex A.
3. Measurement is done with 20°C air-free water, kinematic

viscosity of 1mm²/sec.

4. The operation of pump shall refer to the performance region indicated by the thickened curve to prevent overheating due to too small low rate or overload of motor due to too large low rate.

## General Data

### Minimum Inlet Pressure NpsH

In case that the pressure in pump is lower than the steam pressure used to convey liquid, the cavitations will occur. To avoid cavitations, a minimum pressure at the inlet side of the pump shall be guaranteed. The maximum suction stroke can be calculated with following formula:

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

Pb=atmosphere pressure [bar]  
(can be set as 1bar)

In a closed system, Pb means system pressure [bar]

NPSH=Net positive suction head [m]

(It can be read out from the point of possible max.

low rate shown on NPSH curve)

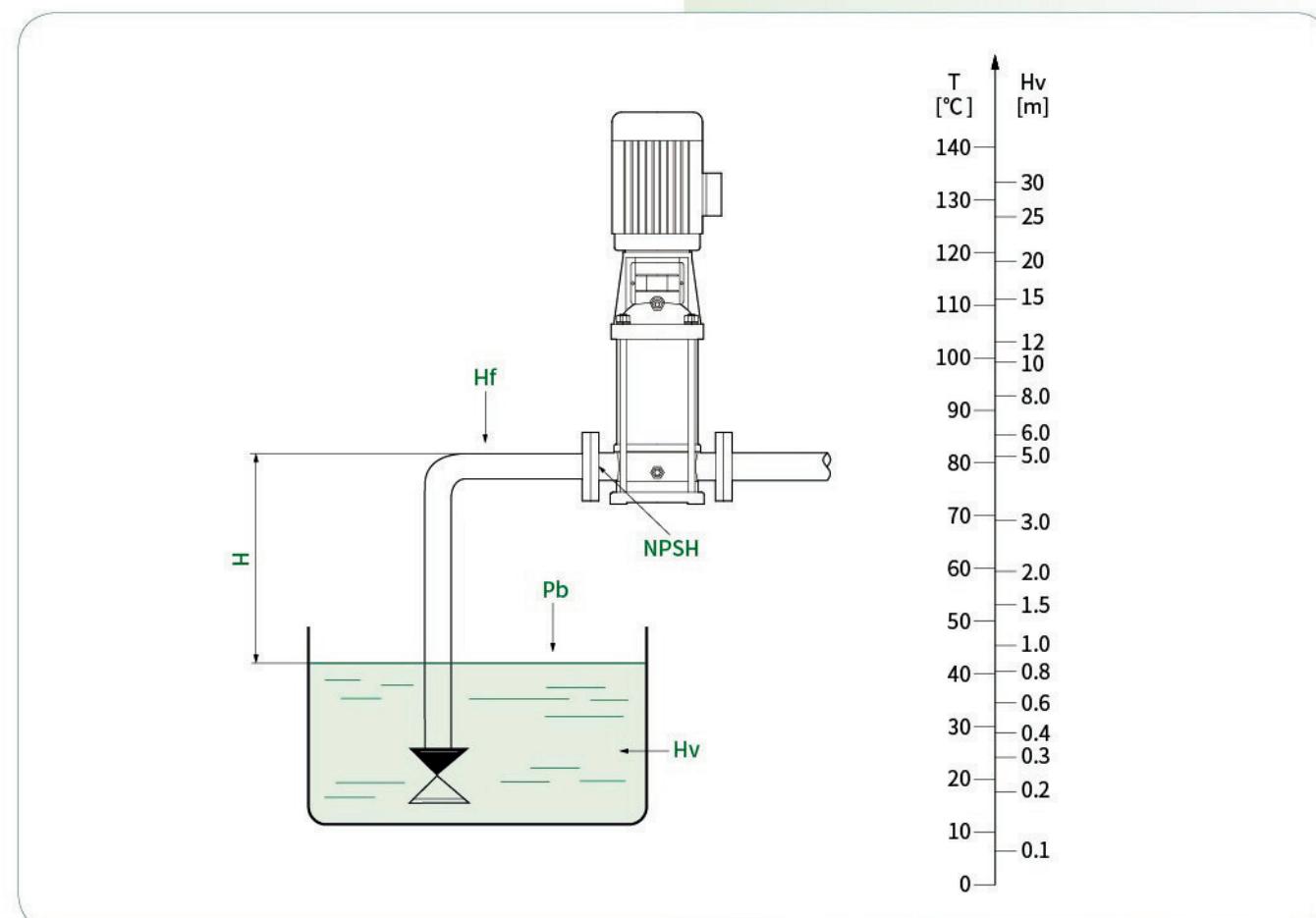
Hf=Pipeline loss at the inlet [m]

Hv=Steam pressure [m]

Hs=Safety margin=Minimum 0.5m delivery head

If the calculated result H is positive, the pump may run under the max. Suction stroke H.

In case the calculated result H is negative, a delivery head of min. Inlet pressure is necessary.

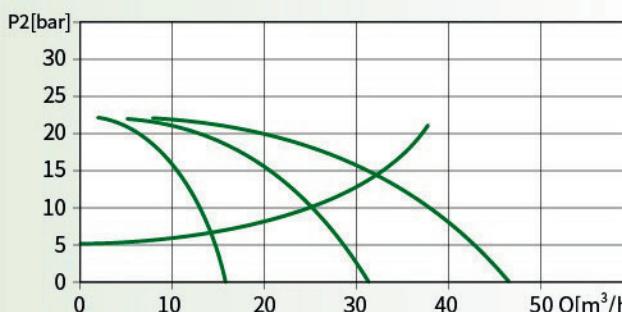


Check and ensure that the pump is not at cavitations state.

### Operation In Parallel

Connecting several pumps in parallel running will benefit much more than running a single large pump.

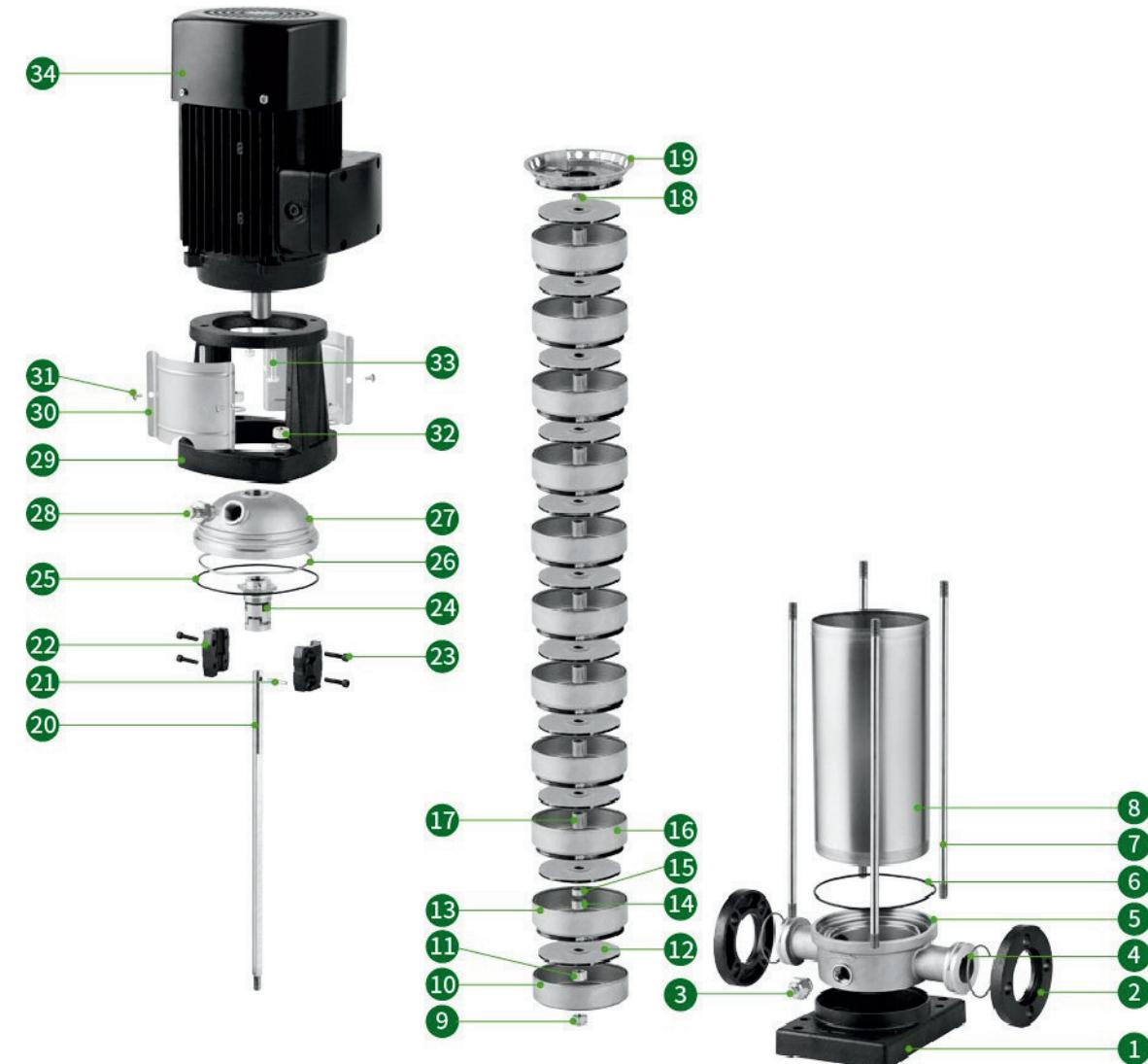
- Applicable to different working states necessary in a variable low system.
- Increasing the possibility of water supply when the pump is in failure. Because in case of pump failure, only part of the system low is effected.



Two pumps or more can be connected in parallel running if necessary.

## CDL/CDLF 1,2,3,4

### Expanded Diagram

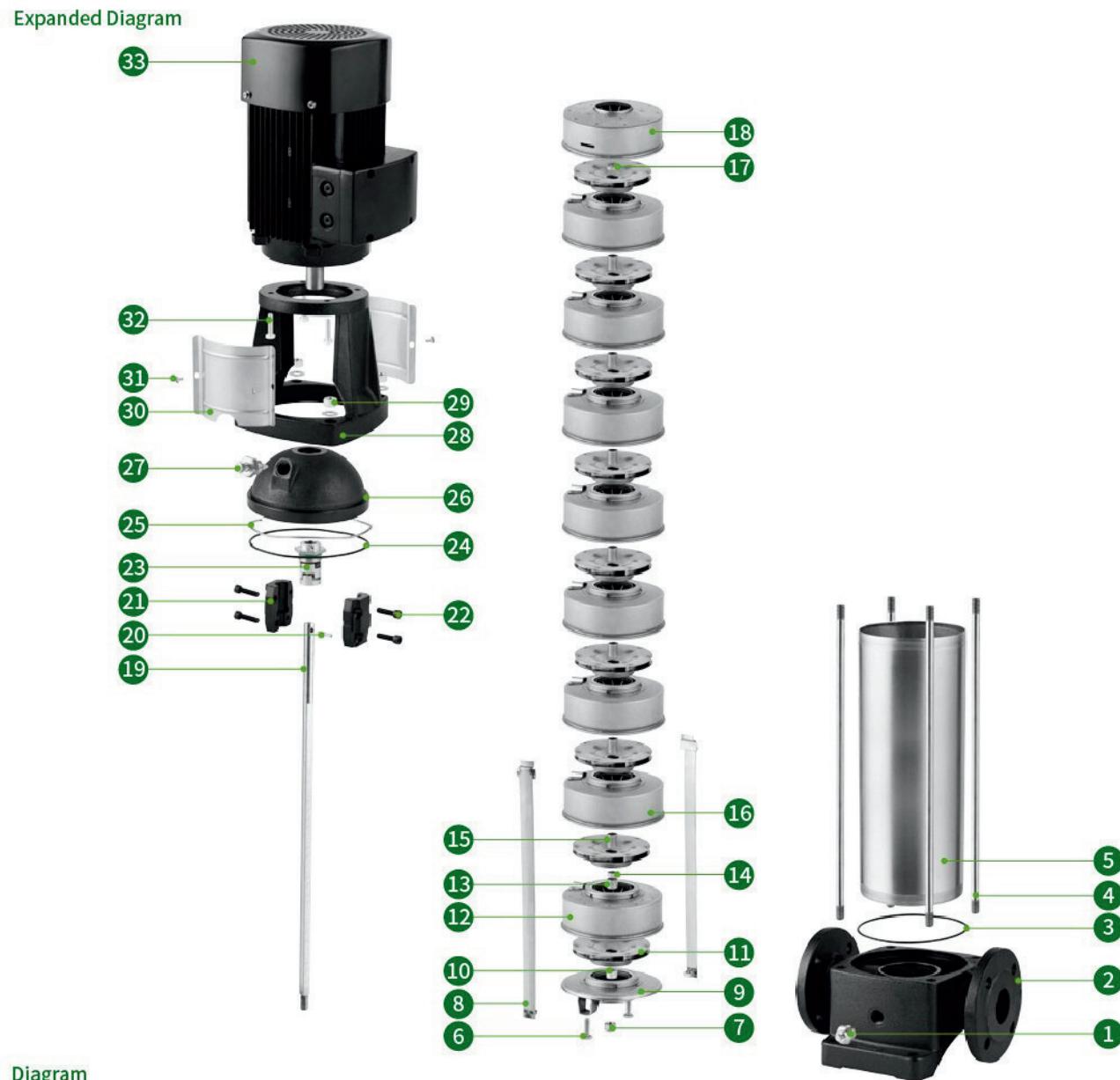


### Diagram

NO.	Description	NO.	Description	NO.	Description	NO.	Description
1	Base plate	10	Inducer	19	Top difuser	28	Air valve
2	Flange	11	First impeller cover	20	shaft	29	Motor bracket
3	Drainage nut	12	Impeller	21	Latch/Shaft pin	30	Coupling guard
4	Flange circlip	13	Support difuser	22	Coupling	31	screws
5	Inlet and outlet chamber	14	TC sleeve	23	Allen bolt	32	Hexagon nut
6	O ring	15	Impeller sleeve M	24	Mechanical seal	33	Hexagon screw
7	Stay bolt	16	Difuser	25	O ring	34	Motor/E1/E2/E3
8	Cylinder	17	Impeller sleeve L	26	Corrugated spring		
9	Lock nut	18	Impeller sleeve S	27	Pump cover		

## General Data

## CDL/CDLF8, 12, 16, 20



Diagram

NO.	Description	NO.	Description	NO.	Description	NO.	Description
1	Drainage nut	10	First impeller cover	19	Shaft	28	Motor bracket
2	Inlet and outlet chamber	11	Impeller	20	Latch / Shaft pin	29	Hexagon nut
3	O ring	12	Support difuser	21	Coupling	30	Couoling guard
4	Stay bolt	13	TC sleeve	22	Allen bolt	31	Screws
5	Cylinder	14	Impeller sleeve M	23	Mechanical Seal	32	Hexagon screw
6	Hexagon screw	15	Impeller sleeve L	24	O ring	33	Motor/E1/E2/E3
7	Lock nut	16	Difuser	25	Corrugated spring		
8	Hook plates	17	Impeller sleeve S	26	Pump cover		
9	Inducer	18	Top difuser	27	Air valve		

## General Data

## CDL/CDLF32, 42, 65, 90



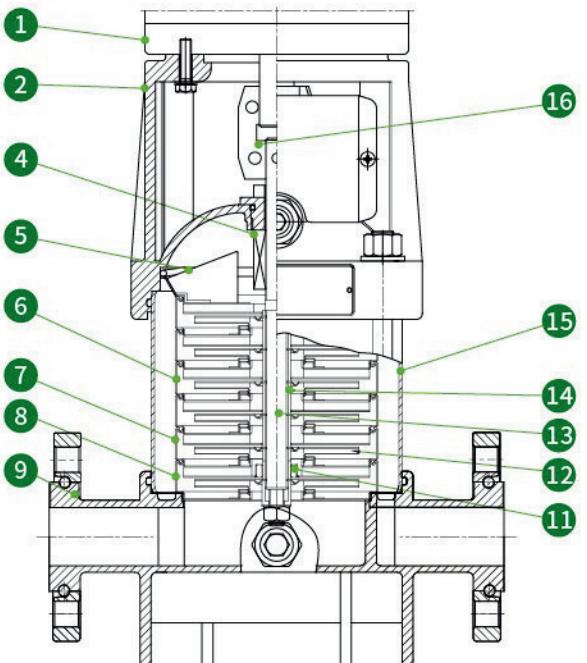
Diagram

NO.	Description	NO.	Description	NO.	Description	NO.	Description
1	Base plate	13	Allen bolt	25	O-ring	37	Allen bolt
2	Flange	14	Support diffuser	26	Air valve	38	Coupling guard
3	Flange circlip	15	TC sleeve	27	Adjusting rubber	39	Screw
4	Inlet&Outlet Chamber	16	Diffuser	28	Drainage nut	40	Motor bracket
5	Drainage nut	17	Top diffuser	29	Washer	41	Hexagon screw
6	Bottom ring	18	Impeller	30	Hexagon nut	42	Washer
7	O-ring	19	Impeller cone	31	Pump Cover	43	Washer
8	Allen bolt	20	Lock nut	32	Allen screw	44	Corrugated spring
9	Cylinder	21	Allen bolt	33	Seal cover	45	Hexagon nut
10	Stay bolt	22	Gasket	34	Mechanical seal	46	Motor/E1/E2/E3
11	Inducer	23	Bottom bearing	35	Coupling		
12	Hook plates	24	Shaft	36	Allen bolt		

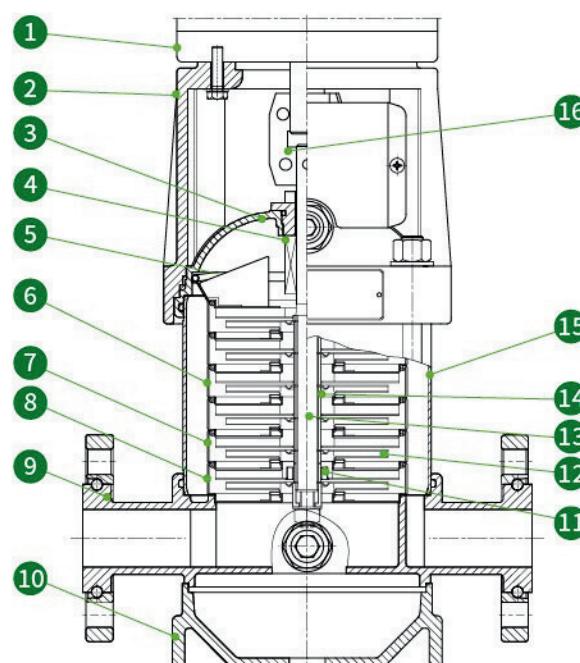
## General Data

# CDL/CDLF1,2,3,4

Section Drawing



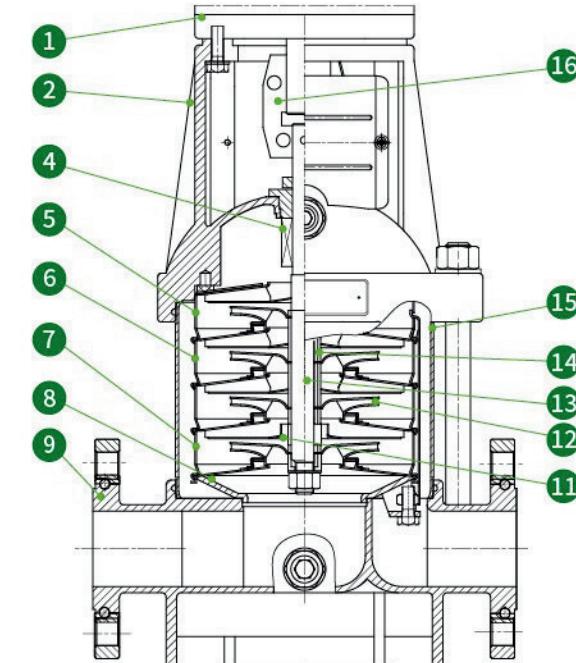
CDL



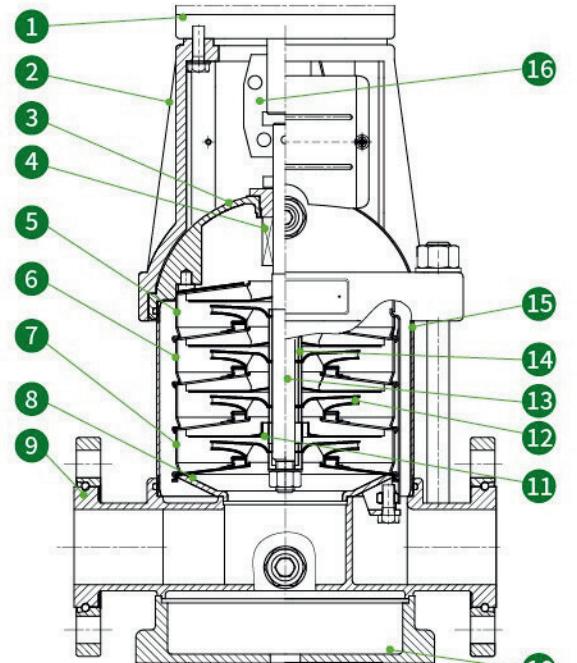
CDLF

# CDL/CDLF8,12,16,20

Section Drawing



CDL



CDLF

Material

NO.	Name	Material	AISI/ASTM
1	Motor		
2	Pump head	Cast iron	ASTM25B
4	Mechanical seal		
5	Top difuser	Stainless steel	AISI304
6	Difuser	Stainless steel	AISI304
7	Support difuser	Stainless steel	AISI304
8	Inducer	Stainless steel	AISI304
11	Bearing	Tungsten carbide	
12	Impeller	Stainless steel	AISI304
13	Shaft	Stainless steel	AISI304 AISI316L

NO.	Name	Material	AISI/ASTM
14	Impeller sleeve	Stainless steel	AISI304
15	Cylinder	Stainless steel	AISI304
16	Coupling	Carbon steel	
<b>CDLF</b>			
3	Seal base	Stainless steel	AISI304
9	Inlet and outlet chamber	Stainless steel	AISI304
10	Base plate	Cast iron	ASTM25B
<b>CDL</b>			
9	Inlet and outlet chamber	Cast iron	ASTM25B

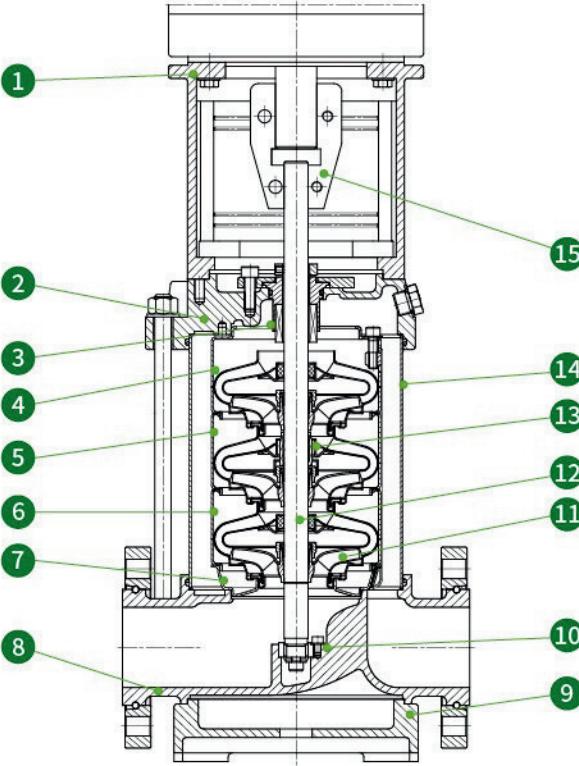
Material

NO.	Name	Material	AISI/ASTM
1	Motor		
2	Pump head	Cast iron	ASTM25B
4	Mechanical seal		
5	Top difuser	Stainless steel	AISI304
6	Difuser	Stainless steel	AISI304
7	Support difuser	Stainless steel	AISI304
8	Inducer	Stainless steel	AISI304
11	Bearing	Tungsten carbide	
12	Impeller	Stainless steel	AISI304
13	Shaft	Stainless steel	AISI304 AISI316L

NO.	Name	Material	AISI/ASTM
14	Impeller sleeve	Stainless steel	AISI304
15	Cylinder	Stainless steel	AISI304
16	Coupling	Carbon steel	
<b>CDLF</b>			
3	Seal base	Stainless steel	AISI304
9	Inlet and outlet chamber	Stainless steel	AISI304
10	Base plate	Cast iron	ASTM25B
<b>CDL</b>			
9	Inlet and outlet chamber	Cast iron	ASTM25B

# CDL/CDLF32,42,65,90

Section Drawing

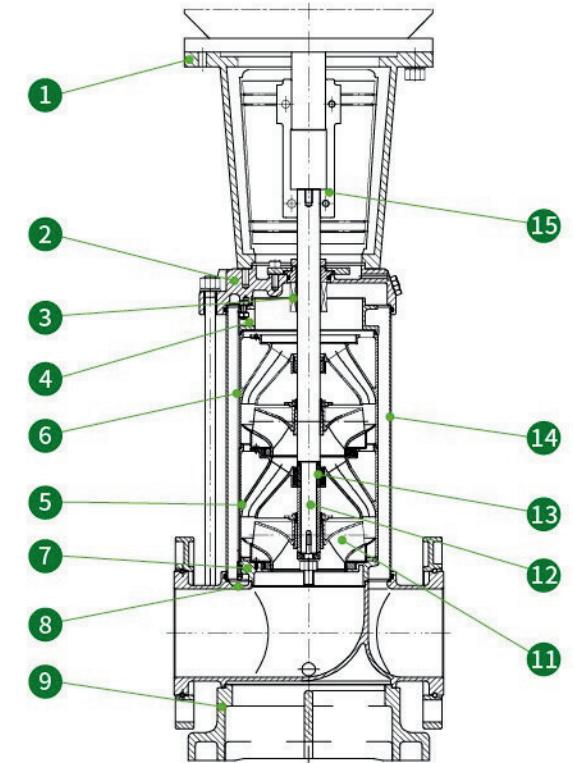


## Material

NO.	Name	Material	AISI/ASTM	NO.	Name	Material	AISI/ASTM
1	Bracket	Cast iron	ASTM25B	13	Intermediate bearing	Tungsten carbide	
3	Mechanical seal			14	Cylinder	Stainless steel	AISI304
4	Top difuser	Stainless steel	AISI304	15	Coupling	Carbon steel	
5	Support difuser	Stainless steel	AISI304		Rubber parts	NBR	
6	Difuser	Stainless steel	AISI304				
7	Inducer	Stainless steel	AISI304				
9	Base plate	Cast iron	ASTM25B				
10	Bottom bearing	Tungsten carbide					
11	Impeller	Stainless steel	AISI304				
12	Shaft	Stainless steel	AISI304 AISI431				

# CDL/CDLF120,150,200

Section Drawing



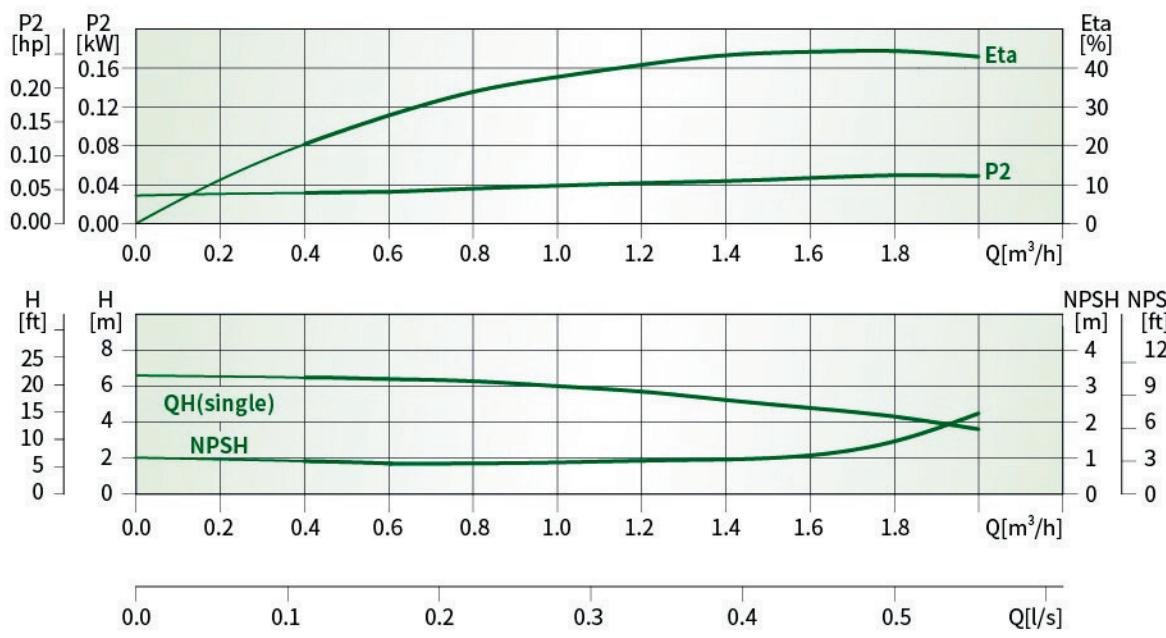
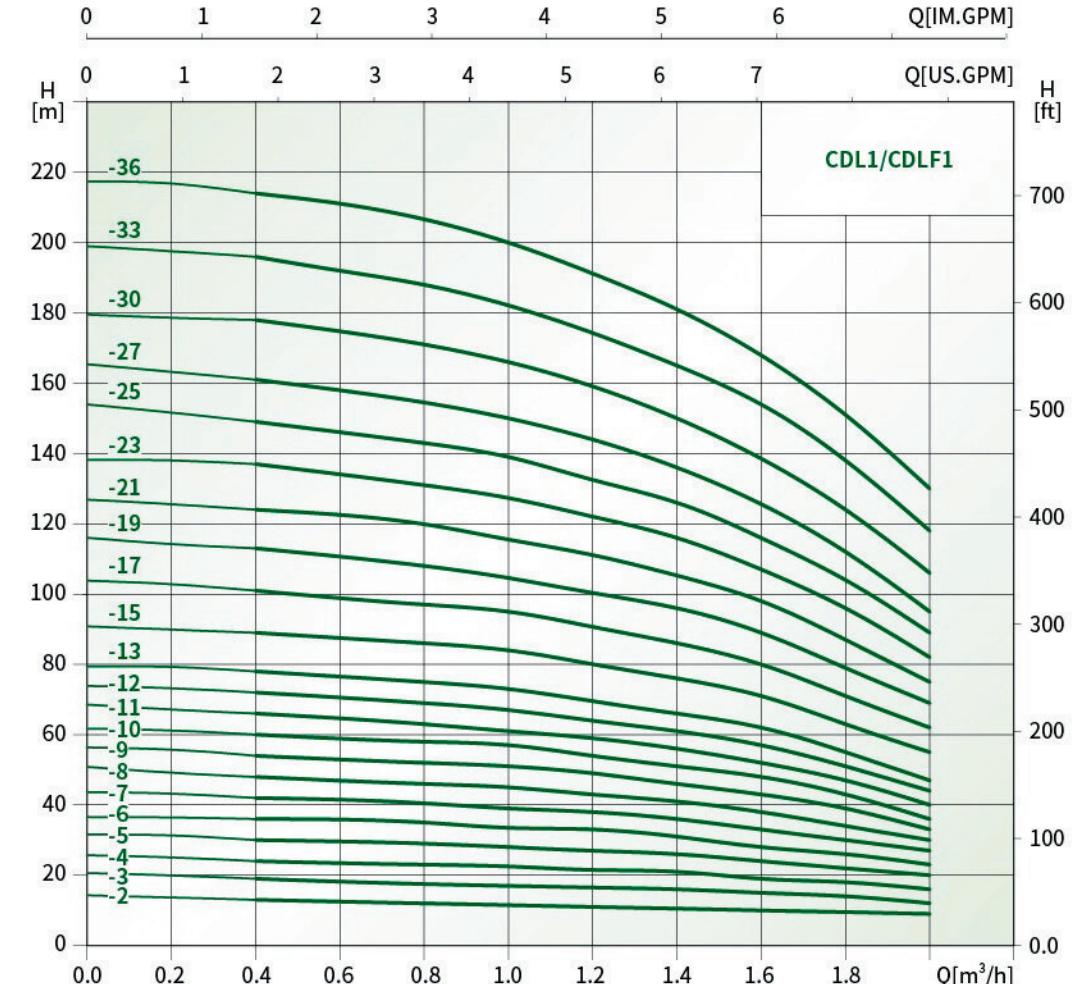
## Material

NO.	Name	Material	AISI/ASTM	NO.	Name	Material	AISI/ASTM
1	Bracket	Cast iron	ASTM25B	13	Bearing	Tungsten carbide	
3	Mechanical seal			14	Cylinder	Stainless steel	AISI304
4	Discharge	Stainless steel	AISI304	15	Coupling	Carbon steel	
5	Support difuser	Stainless steel	AISI304		Rubber parts	NBR	
6	Difuser	Stainless steel	AISI304				
7	Inducer	Stainless steel	AISI304				
9	Base plate	Cast iron	ASTM80-55-06				
11	Impeller	Stainless steel	AISI304				
12	Shaft	Stainless steel	AISI304				
2	Pump head	Cast iron	ASTM80-55-06				
8	Inlet and outlet chamber	Cast iron	ASTM80-55-06				

## **CDL/CDLF1,50HZ**

## Performance Curve

ISO9906 Annex A 2900rpm

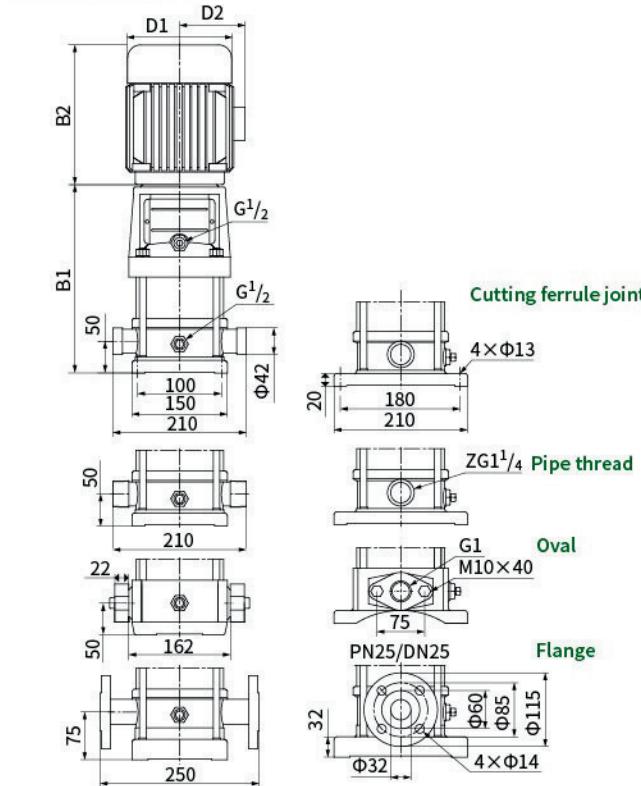


## Technical Data

## Performance Table

Model	Driving motor		Q (m³/h)	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.0
	kW	HP										
CDL(F)1-2	0.37	0.5		13	12.5	12	11.5	11	10.5	10	9.5	9
CDL(F)1-3	0.37	0.5		19	18	17.5	17	16.5	16	15	14	12
CDL(F)1-4	0.37	0.5		24	23.5	23	22.5	21.5	21	19	18	16
CDL(F)1-5	0.37	0.5		30	29.6	29	28	27	26	24	22	20
CDL(F)1-6	0.37	0.5		36	35.5	35	33.5	33	31	28	26	23
CDL(F)1-7	0.37	0.5		42	41	40.5	39	38	36	33	30	27
CDL(F)1-8	0.55	0.75		48	47	46	45	43	41	38	34	30
CDL(F)1-9	0.55	0.75		54	53	52	51	49	46	43	39	33
CDL(F)1-10	0.55	0.75		60	59	58	57	54	51	48	43	36
CDL(F)1-11	0.55	0.75		66	65	63	61	59	56	52	47	40
CDL(F)1-12	0.75	1	H (m)	72	71	69	67	64	61	57	51	44
CDL(F)1-13	0.75	1		78	77	75	73	69	66	62	55	47
CDL(F)1-15	0.75	1		89	88	86	84	79	76	71	63	55
CDL(F)1-17	1.1	1.5		101	99	97	95	89	86	80	71	62
CDL(F)1-19	1.1	1.5		113	110	108	106	99	96	89	79	69
CDL(F)1-21	1.1	1.5		124	122	120	117	110	106	98	87	75
CDL(F)1-23	1.1	1.5		137	133	131	128	121	116	107	96	82
CDL(F)1-25	1.5	2		149	145	143	139	131	126	116	104	89
CDL(F)1-27	1.5	2		161	157	155	150	141	136	125	112	95
CDL(F)1-30	1.5	2		178	175	171	166	157	150	139	124	106
CDL(F)1-33	2.2	3		196	192	188	183	173	165	154	137	118
CDL(F)1-36	2.2	3		214	210	205	200	190	181	169	151	130

## Installation Sketch



#### **Size And Weight**

Model	Size(mm)					Weight (kg)
	B1	B2	B1+B2	D1	D2	
CDL(F)1-2	258	210	468	148	117	20
CDL(F)1-3	276	210	486	148	117	20
CDL(F)1-4	294	210	504	148	117	21
CDL(F)1-5	312	210	522	148	117	21
CDL(F)1-6	330	210	540	148	117	22
CDL(F)1-7	348	210	558	148	117	23
CDL(F)1-8	366	210	576	148	117	24
CDL(F)1-9	384	210	594	148	117	25
CDL(F)1-10	402	210	612	148	117	26
CDL(F)1-11	420	210	630	148	117	26
CDL(F)1-12	448	245	693	170	142	29
CDL(F)1-13	466	245	711	170	142	30
CDL(F)1-15	502	245	747	170	142	31
CDL(F)1-17	538	245	783	170	142	33
CDL(F)1-19	574	245	819	170	142	34
CDL(F)1-21	610	245	855	170	142	35
CDL(F)1-23	646	245	891	170	142	36
CDL(F)1-25	692	290	982	190	155	42
CDL(F)1-27	728	290	1018	190	155	43
CDL(F)1-30	782	290	1072	190	155	45
CDL(F)1-33	836	290	1126	190	155	49
CDL(F)1-36	890	290	1180	190	155	51

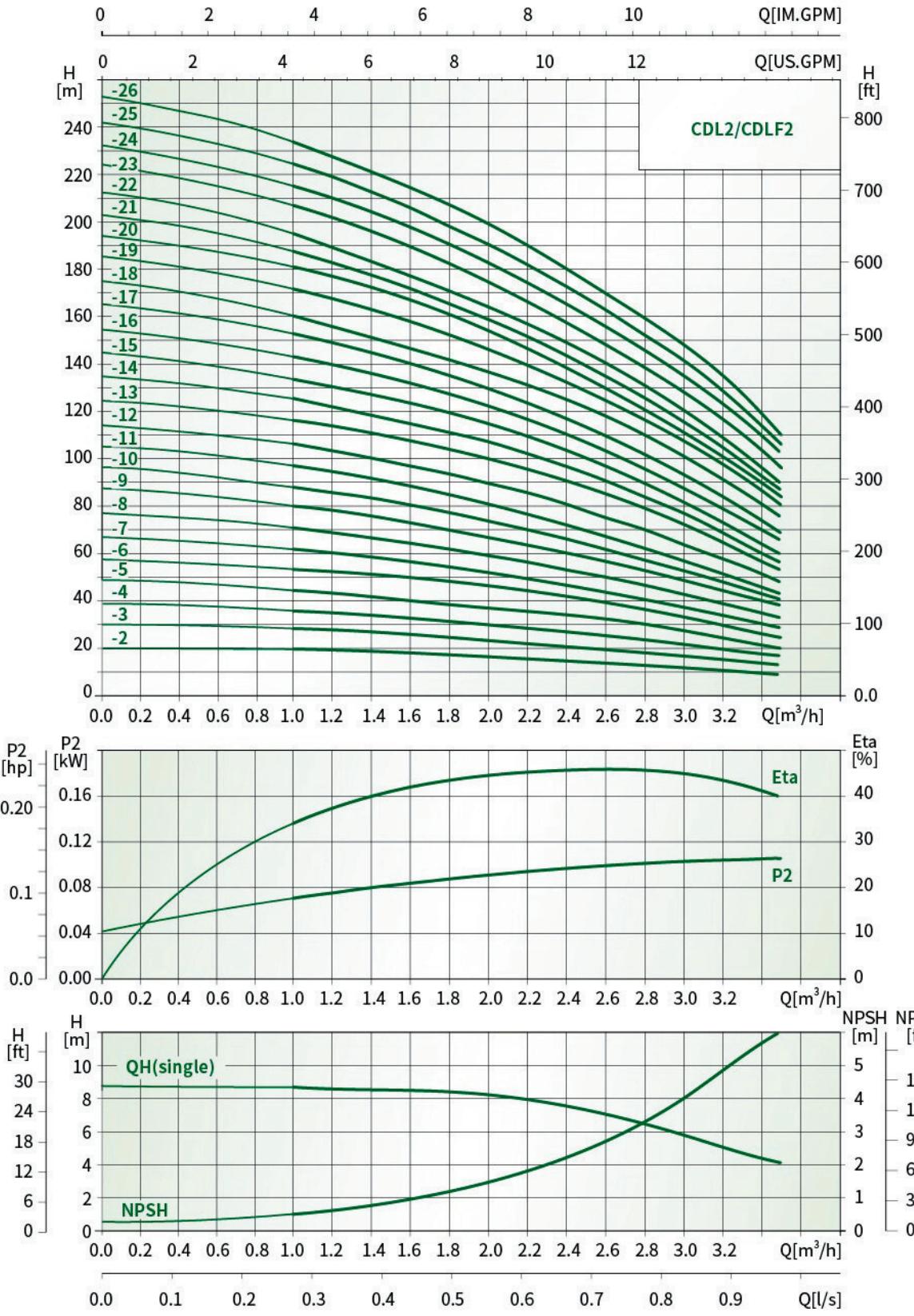
CDL1-25~1-36 sub-connection of pipeline has no oval lange connection.

The overall dimensions of the single-phase motor and explosion-proof motor are a little different. Please contact us for details.

## **CDL/CDLF2,50HZ**

## Performance Curve

ISO9906 Annex A 2900rpm

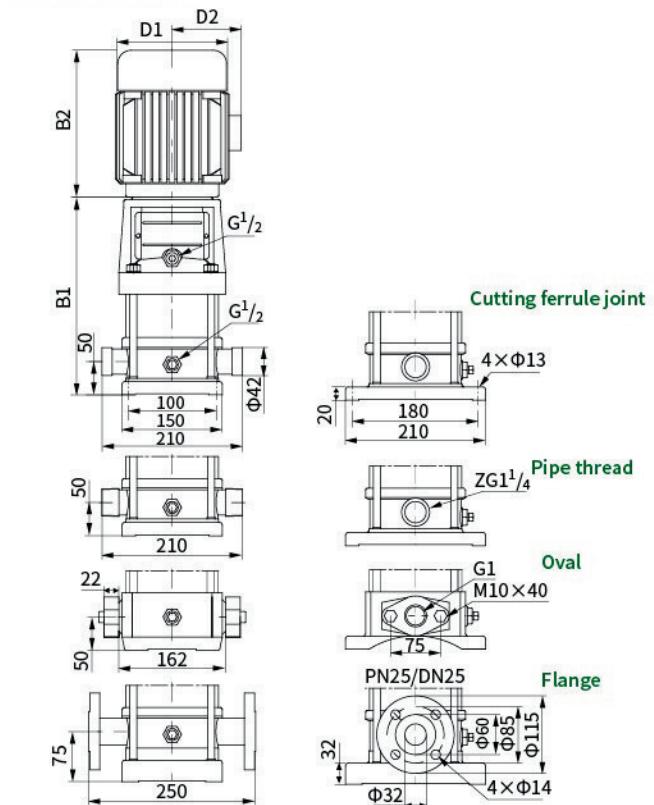


## Technical Data

## Performance Table

Model	Driving motor		Q (m³/h)	1	1.2	1.6	2.0	2.4	2.8	3.2	3.5
	kW	HP									
CDL(F) 2-2	0.37	0.5		18	17	16	15	13	12	10	8
CDL(F) 2-3	0.37	0.5		27	26	24	22	20	18	15	12
CDL(F) 2-4	0.55	0.75		36	35	33	30	26	24	20	16
CDL(F) 2-5	0.55	0.75		45	43	40	37	33	30	24	20
CDL(F) 2-6	0.75	1		53	52	50	45	40	36	30	24
CDL(F) 2-7	0.75	1		63	61	57	52	47	41	35	28
CDL(F) 2-9	1.1	1.5	H (m)	80	78	73	67	61	54	45	37
CDL(F) 2-11	11	1.5		98	95	89	82	73	64	54	44
CDL(F) 2-13	1.5	2		116	114	106	98	89	78	65	52
CDL(F) 2-15	1.5	2		134	130	123	112	100	90	73	60
CDL(F) 2-18	2.2	3		161	157	148	136	121	108	91	76
CDL(F) 2-22	2.2	3		197	192	180	165	148	130	110	90
CDL(F) 2-26	3.0	4		232	228	214	198	179	158	130	110

## Installation Sketch



## Size And Weight

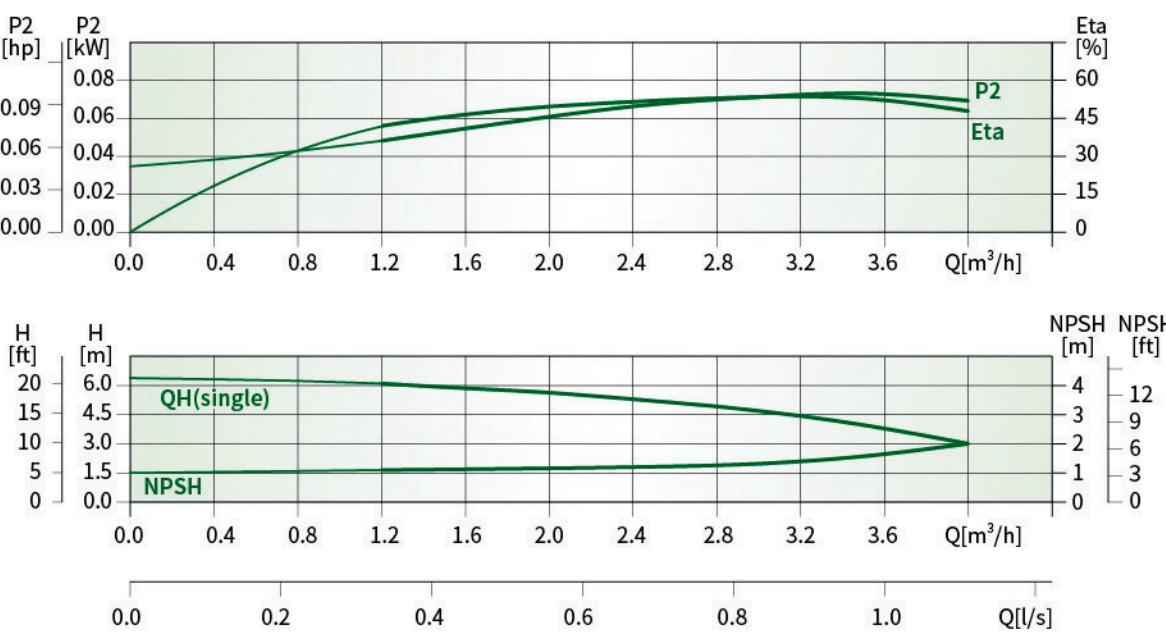
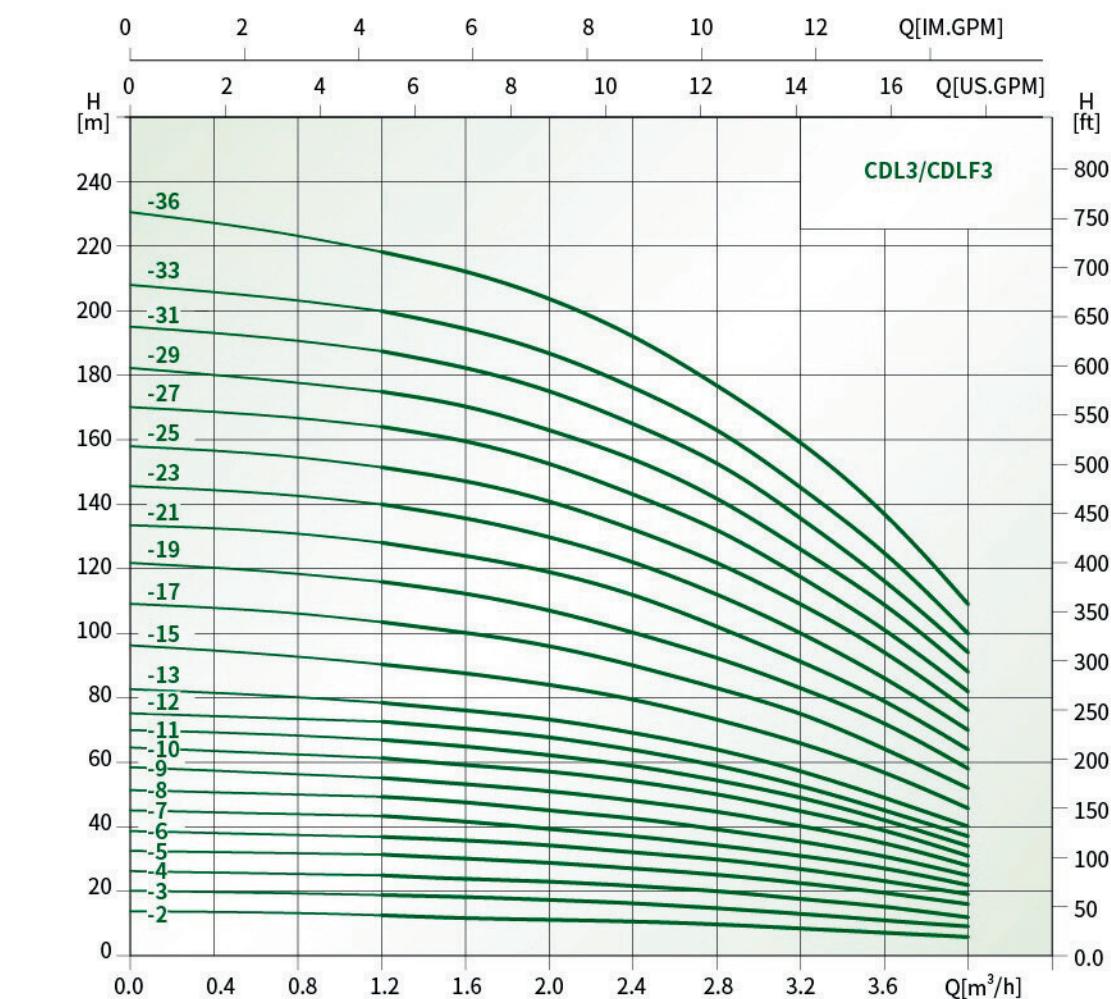
Model	Size(mm)					Weight (kg)
	B1	B2	B1+B2	D1	D2	
CDL(F) 2-2	258	210	468	148	117	20
CDL(F) 2-3	276	210	486	148	117	20
CDL(F) 2-4	294	210	504	148	117	22
CDL(F) 2-5	312	210	522	148	117	23
CDL(F) 2-6	340	245	585	170	142	26
CDL(F) 2-7	358	245	603	170	142	26
CDL(F) 2-9	394	245	639	170	142	28
CDL(F) 2-11	430	245	675	170	142	29
CDL(F) 2-13	476	290	766	190	155	35
CDL(F) 2-15	512	290	802	190	155	36
CDL(F) 2-18	566	290	856	190	155	41
CDL(F) 2-22	638	290	928	190	155	42
CDL(F) 2-26	720	315	1035	197	165	52

CDL 2-18~2-26 sub-connection of pipeline has no oval lange connection.

The overall dimensions of the single-phase motor and explosion-proof motor are a little different. Please contact us for details.

# CDL/CDLF3,50Hz

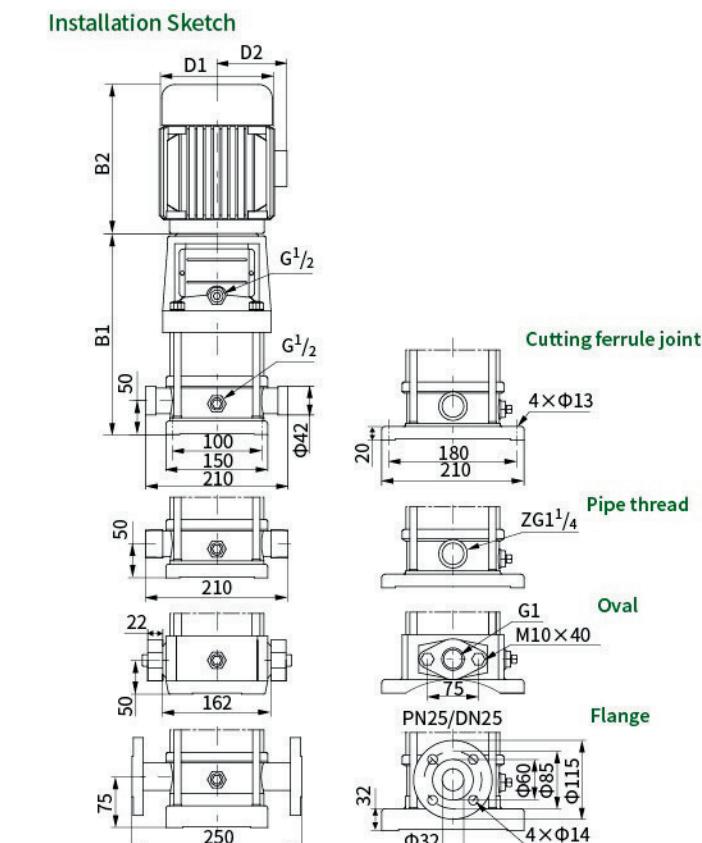
Performance Curve



## Technical Data

Performance Table

Model	Driving motor kW	Driving motor HP	Q (m³/h)	1.2	1.6	2.0	2.4	2.8	3.0	3.2	3.6	4.0
CDL(F) 3-2	0.37	0.5		12.5	11.5	11	10.5	10	9	8	7	6
CDL(F) 3-3	0.37	0.5		19	18.5	17.5	16.5	15	14	13	11	9
CDL(F) 3-4	0.37	0.5		25	24	23	21.5	20	19	18	15	12
CDL(F) 3-5	0.37	0.5		31	30	29	27	25	23	22	19	16
CDL(F) 3-6	0.55	0.75		36	35	34	32	30	28	27	23	19
CDL(F) 3-7	0.55	0.75		43	41	39	37	34	32	31	27	22
CDL(F) 3-8	0.75	1		49	47	45	43	39	37	35	31	25
CDL(F) 3-9	0.75	1		55	53	51	48	45	42	40	35	28
CDL(F) 3-10	0.75	1		61	59	57	54	50	47	45	39	31
CDL(F) 3-11	1.1	1.5		67	64	61	58	54	51	49	42	34
CDL(F) 3-12	1.1	1.5		73	70	67	63	58	55	52	45	37
CDL(F) 3-13	1.1	1.5		78	76	73	69	64	60	57	49	40
CDL(F) 3-15	1.1	1.5		90	88	84	79	73	69	66	57	46
CDL(F) 3-17	1.5	2		103	100	96	90	83	79	75	64	52
CDL(F) 3-19	1.5	2		115	112	107	100	92	88	83	72	58
CDL(F) 3-21	2.2	3		128	124	119	112	102	98	91	79	64
CDL(F) 3-23	2.2	3		140	135	130	122	112	107	100	86	70
CDL(F) 3-25	2.2	3		151	147	141	131	122	116	109	94	76
CDL(F) 3-27	2.2	3		164	159	152	143	132	124	117	101	82
CDL(F) 3-29	2.2	3		175	170	163	153	142	133	126	109	88
CDL(F) 3-31	3.0	4		187	182	175	165	153	142	135	116	94
CDL(F) 3-33	3.0	4		199	194	187	176	163	151	145	125	100
CDL(F) 3-36	3.0	4		218	212	204	192	178	168	159	137	109



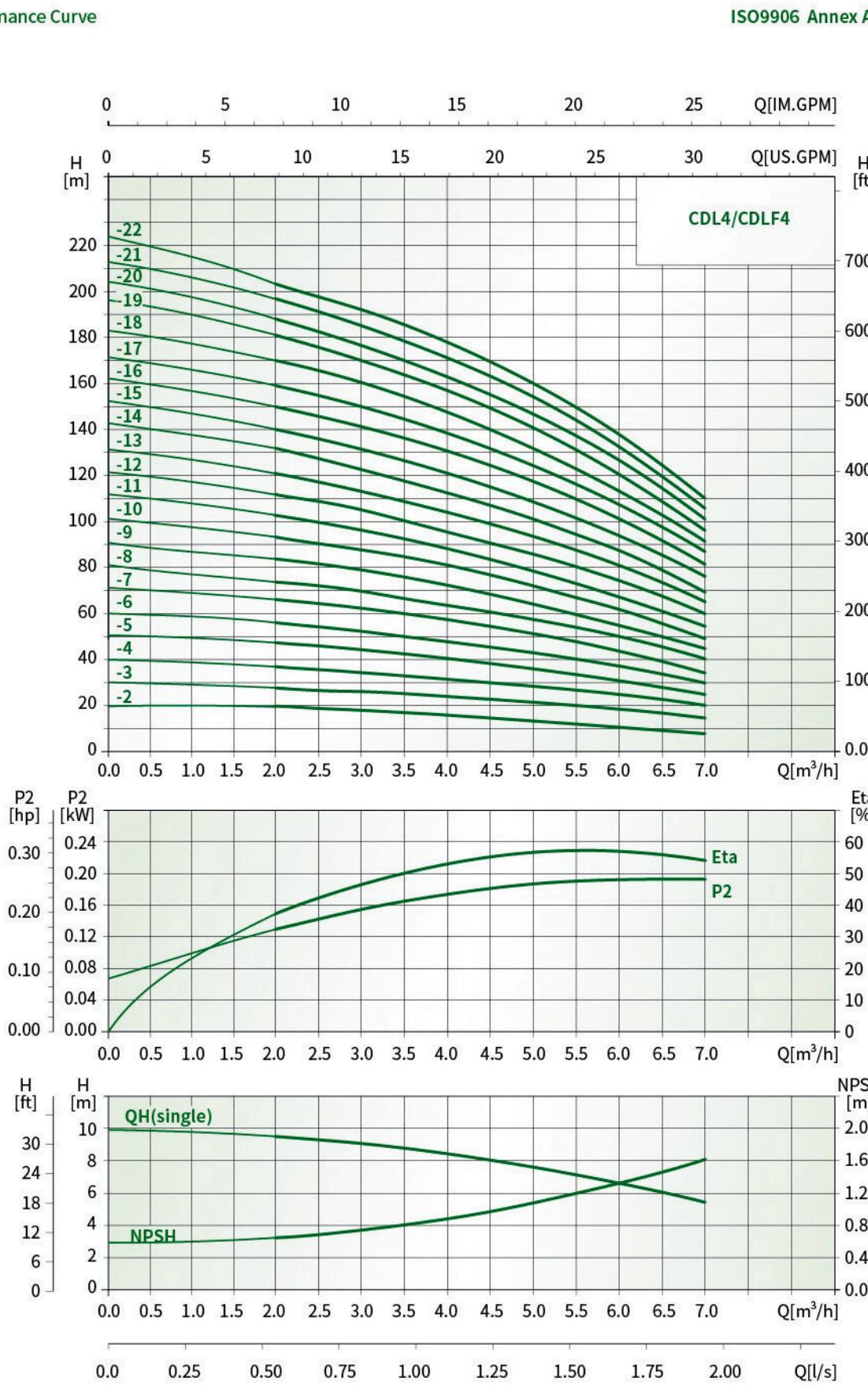
Model	B1	B2	B1+B2	D1	D2	Weight (kg)



<tbl

# CDL/CDLF4,50HZ

Performance Curve



CDL/CDLF4 50Hz

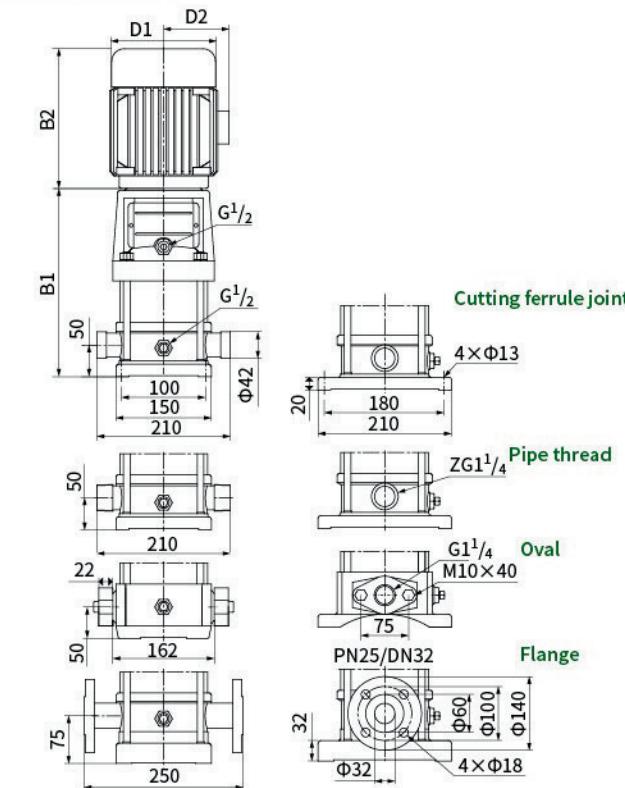
ISO9906 Annex A 2900rpm

## Technical Data

Performance Table

Model	Driving motor kW	Driving motor HP	Q (m³/h)	1.5	2.0	3.0	4.0	5.0	6.0	7.0
CDL(F) 4-2	0.37	0.5		19	18	17	15	13	10	8
CDL(F) 4-3	0.55	0.75		28	27	26	24	20	18	13
CDL(F) 4-4	0.75	1		38	36	34	32	27	24	19
CDL(F) 4-5	1.1	1.5		47	45	43	40	34	31	23
CDL(F) 4-6	1.1	1.5		56	54	52	48	41	37	28
CDL(F) 4-7	1.5	2		66	63	61	56	48	43	33
CDL(F) 4-8	1.5	2	H (m)	74	72	70	64	55	50	38
CDL(F) 4-10	2.2	3		96	90	87	81	71	62	48
CDL(F) 4-12	2.2	3		114	108	104	95	85	75	58
CDL(F) 4-14	3.0	4		136	126	122	112	101	89	68
CDL(F) 4-16	3.0	4		152	144	140	129	115	101	78
CDL(F) 4-19	4.0	5.5		183	171	168	153	137	122	93
CDL(F) 4-22	4.0	5.5		211	200	192	178	160	138	108

Installation Sketch



Size And Weight

Model	Size(mm)				Weight (kg)
	B1	B2	B1+B2	D1	
CDL(F) 4-2	276	210	486	148	21
CDL(F) 4-3	303	210	513	148	22
CDL(F) 4-4	340	245	585	170	25
CDL(F) 4-5	367	245	612	170	27
CDL(F) 4-6	394	245	639	170	27
CDL(F) 4-7	431	290	721	190	33
CDL(F) 4-8	458	290	748	190	33
CDL(F) 4-10	512	290	802	190	37
CDL(F) 4-12	566	290	856	190	55
CDL(F) 4-14	630	315	945	197	65
CDL(F) 4-16	684	315	999	197	48
CDL(F) 4-19	765	335	1100	230	57
CDL(F) 4-22	846	335	1181	230	59

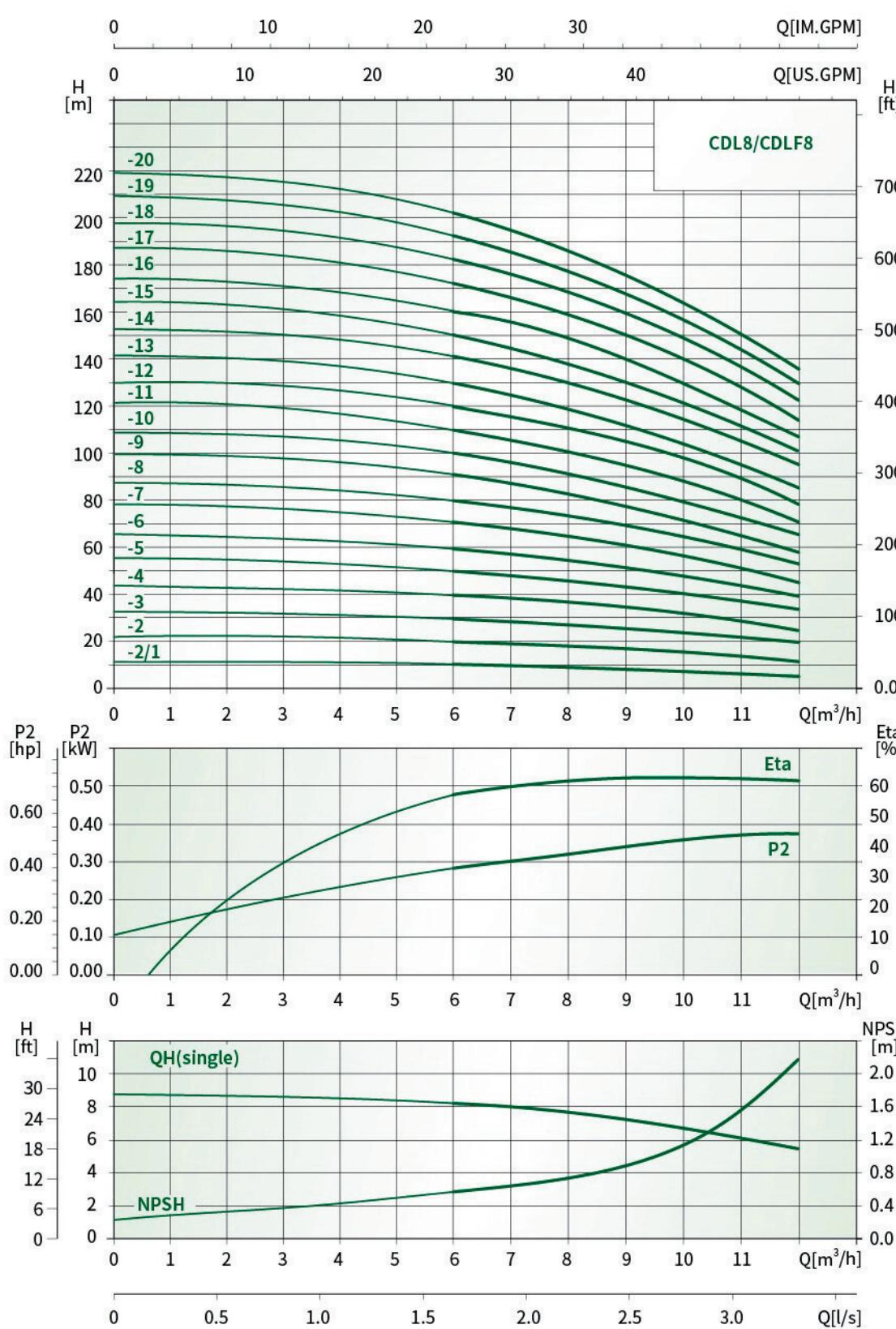
CDL 4-19~4-22 sub-connection of pipeline has no oval lange connection.

The overall dimensions of the single-phase motor and explosion-proof motor are a little different. Please contact us for details.

CDL/CDLF4 50Hz

# CDL/CDLF8,50HZ

Performance Curve

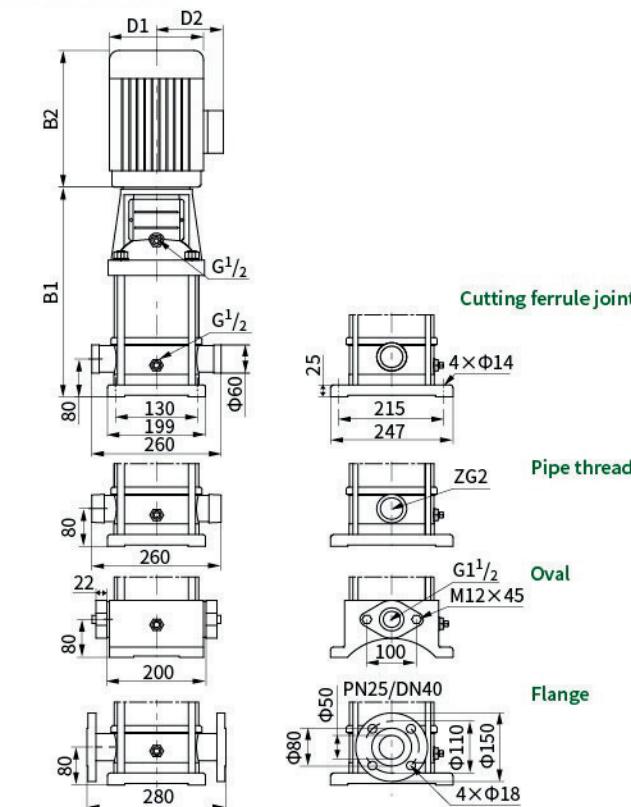


## Technical Data

Performance Table

Model	Driving motor kW	HP	Q (m <sup>3</sup> /h)	5	6	7	8	9	10	11	12
CDL(F) 8-2/1	0.75	1		10	9.5	9.3	9	8.5	8	7	6
CDL(F) 8-2	0.75	1		20	19.5	19	18	17	16	14	13
CDL(F) 8-3	1.1	1.5		30	295	28.5	27	25	24	21	19
CDL(F) 8-4	1.5	2		41	39.5	38	36	34	32	28	26
CDL(F) 8-5	2.2	3		52	50	48	45	42	40	36	32
CDL(F) 8-6	2.2	3		62	60	57	54	51	48	43	39
CDL(F) 8-8	3.0	4		83	80	77	73	69	65	58	52
CDL(F) 8-10	4.0	5.5		104	100	97	92	87	81	73	65
CDL(F) 8-12	4.0	5.5		124	120	116	111	104	92	87	78
CDL(F) 8-14	5.5	7.5		145	141	136	130	122	113	102	92
CDL(F) 8-16	5.5	7.5		166	161	156	148	139	130	118	106
CDL(F) 8-18	7.5	10		187	182	175	167	157	146	134	120
CDL(F) 8-20	7.5	10		208	202	195	186	175	163	150	135

Installation Sketch



Size And Weight

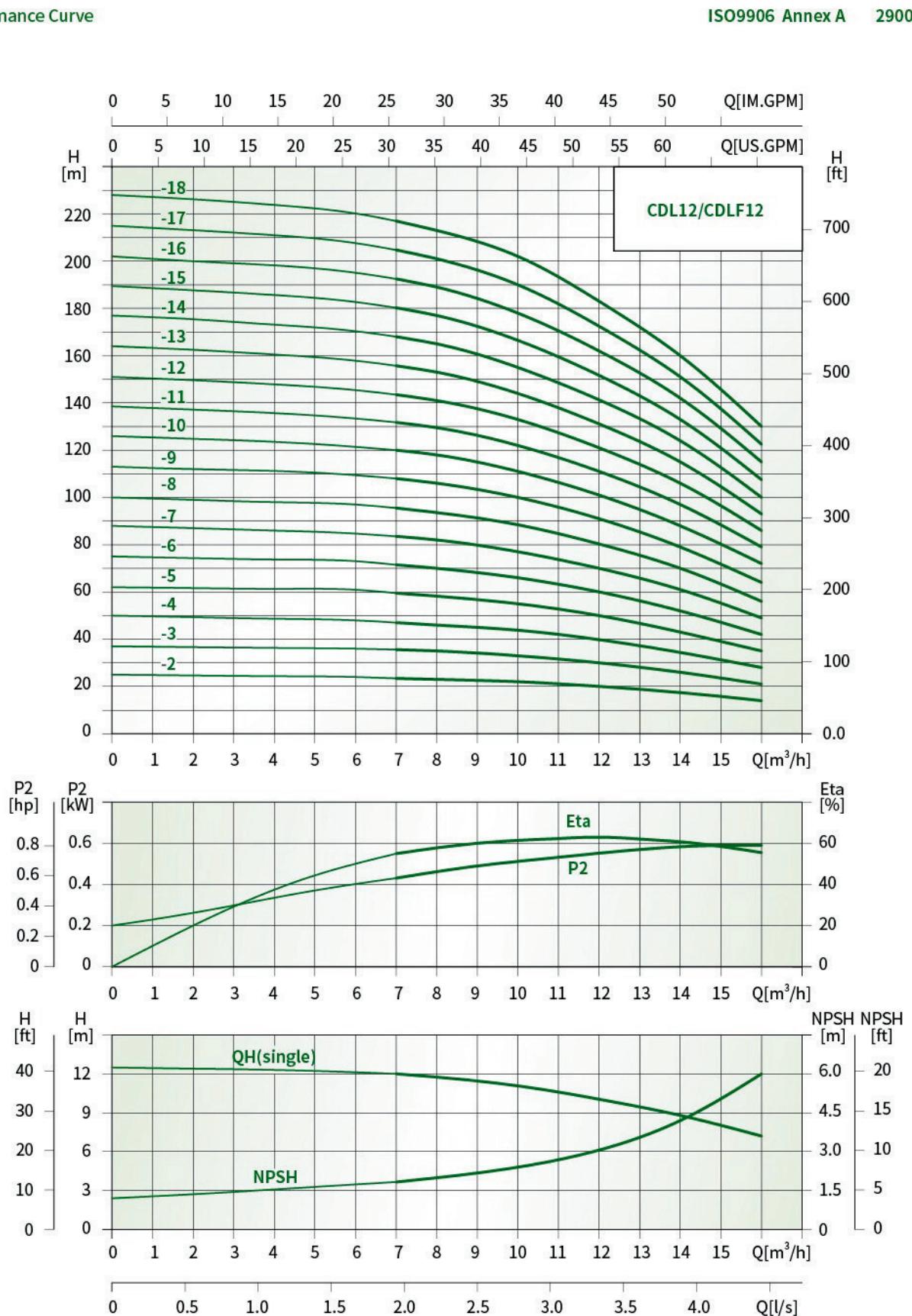
Model	Size(mm)				Weight (kg)
	B1	B2	B1+B2	D1	
CDL(F) 8-2/1	347	245	592	170	32
CDL(F) 8-2	347	245	592	170	32
CDL(F) 8-3	377	245	622	170	34
CDL(F) 8-4	417	290	707	190	40
CDL(F) 8-5	447	290	737	190	44
CDL(F) 8-6	477	290	767	190	45
CDL(F) 8-8	547	315	862	197	53
CDL(F) 8-10	607	335	942	230	64
CDL(F) 8-12	667	335	1002	230	66
CDL(F) 8-14	747	430	1177	260	81
CDL(F) 8-16	807	430	1237	260	84
CDL(F) 8-18	867	430	1297	260	93
CDL(F) 8-20	927	430	1357	260	94

CDL 8-14~8-20 sub-connection of pipeline has no oval lange connection.

The overall dimensions of the single-phase motor and explosion-proof motor are a little different. Please contact us for details.

# CDL/CDLF12,50HZ

Performance Curve

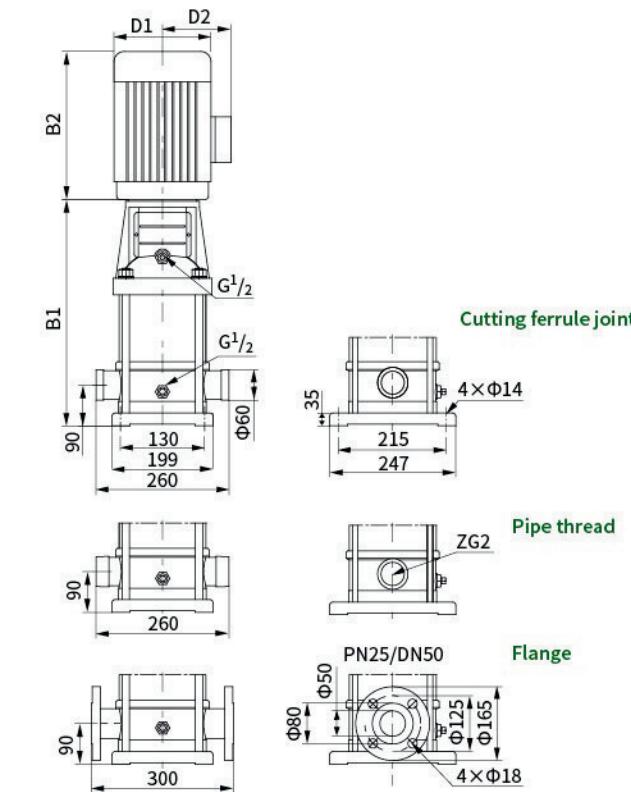


# Technical Data

Performance Table

Model	Driving motor kW	Driving motor HP	Q (m³/h)	7	8	9	10	11	12	13	14	15	16
CDL(F)(F) 12-2	1.5	2		23.5	23	22.5	22	21	20	18.5	17	15.5	14
CDL(F) 12-3	2.2	3		35.5	35	34	33	31.5	30	28	26	23.5	21
CDL(F) 12-4	3	4		47	46	45	44	42	40	37	34	31	28
CDL(F) 12-5	3	4		59.5	58	56.5	55	52.5	50	46.5	43	39	35
CDL(F) 12-6	4	5.5		71.5	70	68	66	63	60	56	52	47	42
CDL(F) 12-7	5.5	7.5		83.5	82	79.5	77	73.5	70	65.5	61	55	49
CDL(F) 12-8	5.5	7.5	H (m)	95.5	94	91	88	84	80	75	70	63	56
CDL(F) 12-9	5.5	7.5		108	106	103	100	95.5	91	85	79	71.5	64
CDL(F) 12-10	7.5	10		120	118	114.5	111	106	101	94.5	88	80	72
CDL(F) 12-12	7.5	10		143.5	141	137	133	127	121	113.5	106	96	86
CDL(F) 12-14	11	15		168	165	160	155	148	141	132.5	124	112	100
CDL(F) 12-16	11	15		192.5	189	183.5	178	170	162	152	142	128.5	115
CDL(F) 12-18	11	15		217	213	207.5	202	192.5	183	171.5	160	145	130

Installation Sketch



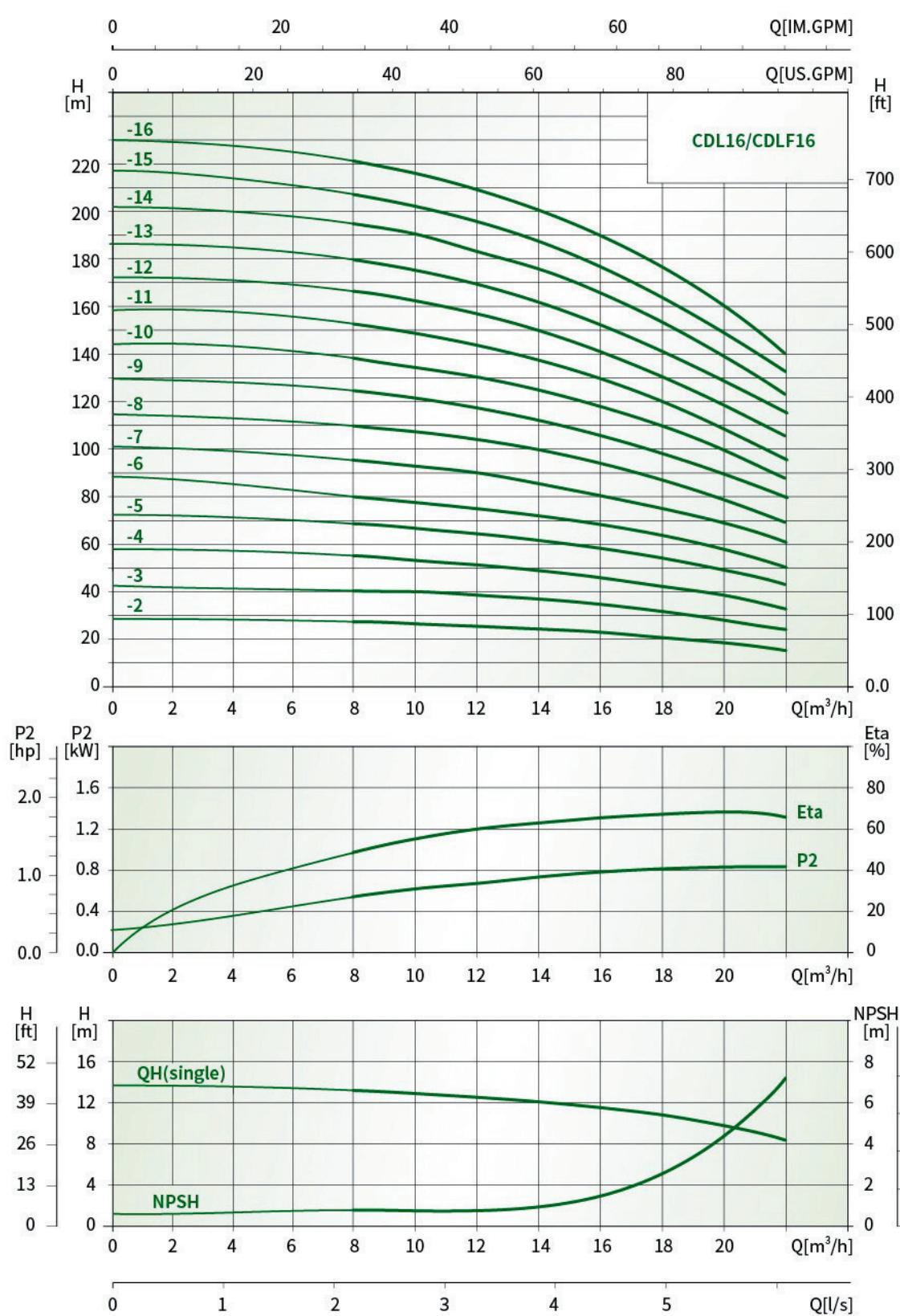
Size And Weight

Model	Size(mm)				Weight (kg)
	B1	B2	B1+B2	D1	
CDL(F) 12-2	367	290	657	190	39
CDL(F) 12-3	397	290	687	190	43
CDL(F) 12-4	437	315	752	197	51
CDL(F) 12-5	467	315	782	197	53
CDL(F) 12-6	497	335	832	230	61
CDL(F) 12-7	547	430	977	260	73
CDL(F) 12-8	577	430	1007	260	74
CDL(F) 12-9	607	430	1037	260	76
CDL(F) 12-10	637	430	1067	260	83
CDL(F) 12-12	697	430	1127	260	87
CDL(F) 12-14	845	490	1335	330	157
CDL(F) 12-16	905	490	1395	330	161
CDL(F) 12-18	965	490	1455	330	164

The overall dimensions of the single-phase motor and explosion-proof motor are a little different. Pls contact us for details.

# CDL/CDLF16,50HZ

Performance Curve



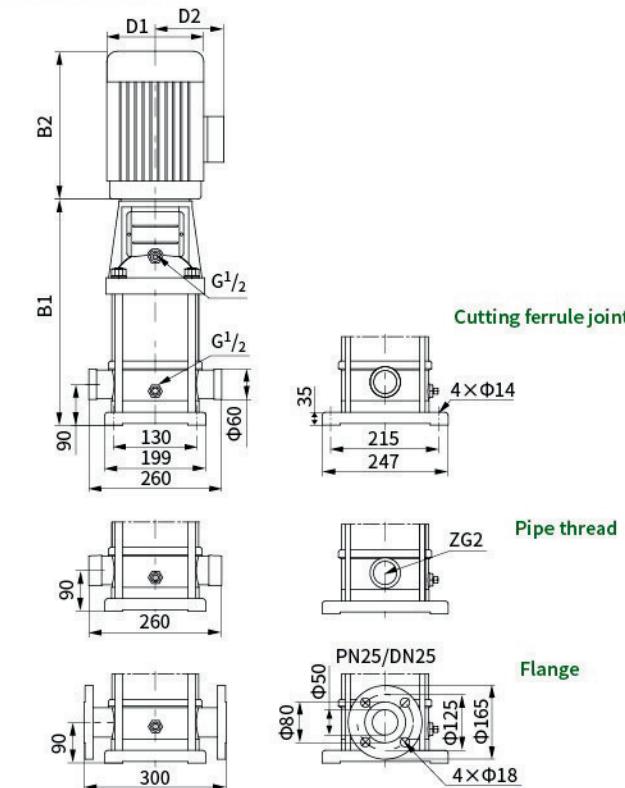
ISO9906 Annex A 2900rpm

## Technical Data

Performance Table

Model	Driving motor kW	Driving motor HP	Q (m³/h)	8	10	12	14	16	18	20	22
CDL(F) 16-2	2.2	3		27	26	25	24	22	21	19	16
CDL(F) 16-3	3.0	4		41	40	38	37	34	32	29	25
CDL(F) 16-4	4.0	5.5		54	53	52	49	46	43	38	34
CDL(F) 16-5	5.5	7.5		68	67	65	62	58	54	48	43
CDL(F) 16-6	5.5	7.5		82	80	78	74	70	64	58	52
CDL(F) 16-7	7.5	10		96	95	91	87	82	76	68	61
CDL(F) 16-8	7.5	10		110	108	104	99	94	86	77	70
CDL(F) 16-10	11	15		138	136	131	125	118	109	97	87
CDL(F) 16-12	11	15		166	162	157	150	141	130	116	105
CDL(F) 16-14	15	20		194	190	184	175	166	152	136	122
CDL(F) 16-16	15	20		222	217	210	200	189	174	156	140

Installation Sketch



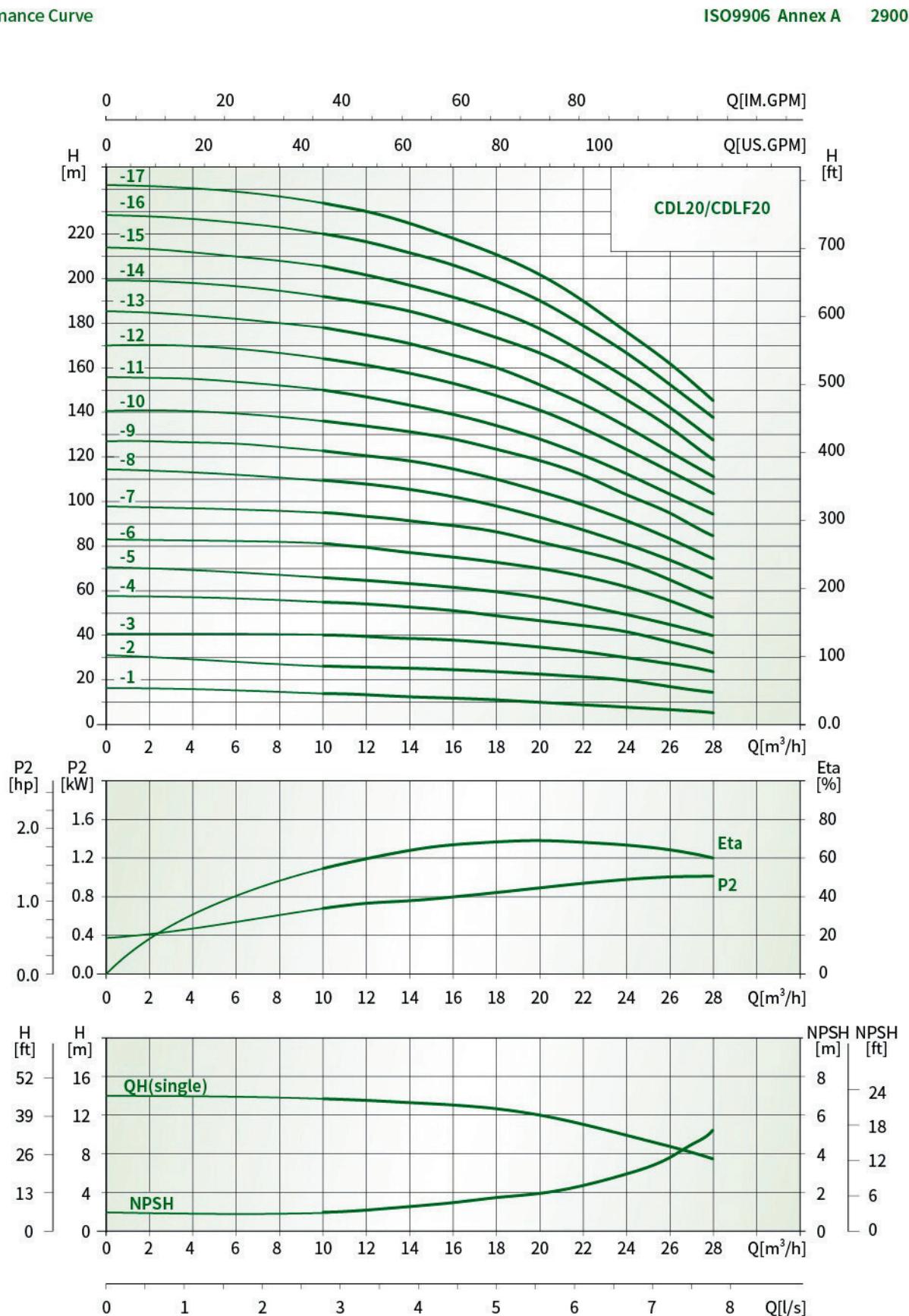
Size And Weight

Model	Size(mm)				Weight (kg)
	B1	B2	B1+B2	D1	
CDL(F) 16-2	397	290	687	190	42
CDL(F) 16-3	452	315	767	197	50
CDL(F) 16-4	497	335	832	230	59
CDL(F) 16-5	562	430	992	260	76
CDL(F) 16-6	607	430	1037	260	77
CDL(F) 16-7	652	430	1082	260	84
CDL(F) 16-8	697	430	1127	260	86
CDL(F) 16-10	875	490	1365	330	158
CDL(F) 16-12	965	490	1455	330	255
CDL(F) 16-14	1055	490	1545	330	255
CDL(F) 16-16	1145	490	1635	330	178

The overall dimensions of the single-phase motor and explosion-proof motor are a little different. Pls contact us for details.

# CDL/CDLF20,50HZ

Performance Curve

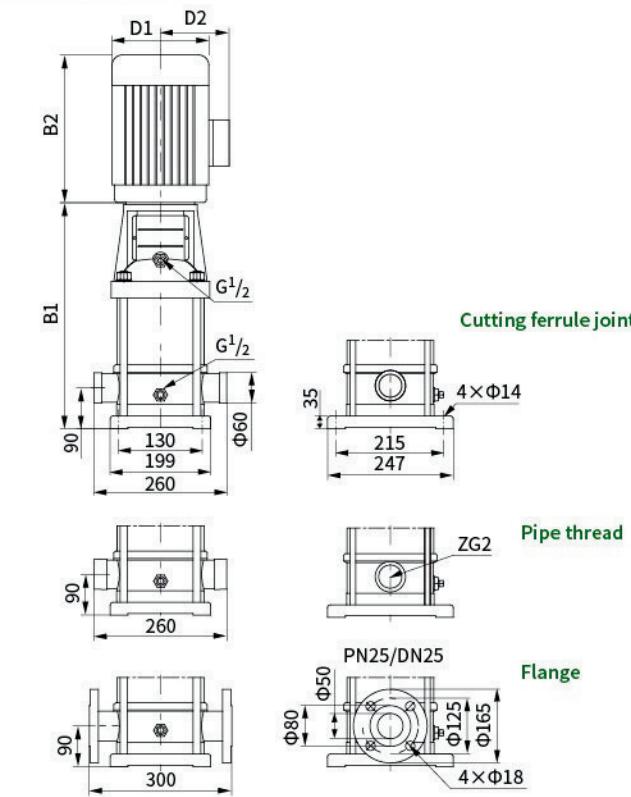


## Technical Data

Performance Table

Model	Driving motor kW	HP	Q (m <sup>3</sup> /h)	10	12	14	16	18	20	22	24	26	28
CDL(F) 20-1	1.1	1.5		13.5	13	12.5	12	11	10	9	8	7	6
CDL(F) 20-2	2.2	3		27	26.5	26	25	24	23	22	20	18	15
CDL(F) 20-3	4.0	5.5		40	39.5	39	38	37	35	33	30	27	24
CDL(F) 20-4	5.5	7.5		54	53	52	51	49	47	44	41	37	33
CDL(F) 20-5	5.5	7.5		67	66	64	62	60	58	55	50	45	40
CDL(F) 20-6	7.5	10		81	79	77	75	73	70	66	61	55	49
CDL(F) 20-7	7.5	10		95	93	91	89	86	82	77	71	65	58
CDL(F) 20-8	11	15		109	107	105	102	99	94	89	82	75	67
CDL(F) 20-10	11	15		136	134	131	128	124	118	111	103	95	85
CDL(F) 20-12	15	20		164	162	158	154	149	142	133	124	114	102
CDL(F) 20-14	15	20		192	189	185	180	174	166	156	145	133	119
CDL(F) 20-17	18.5	25		234	230	225	219	212	202	190	177	162	145

Installation Sketch



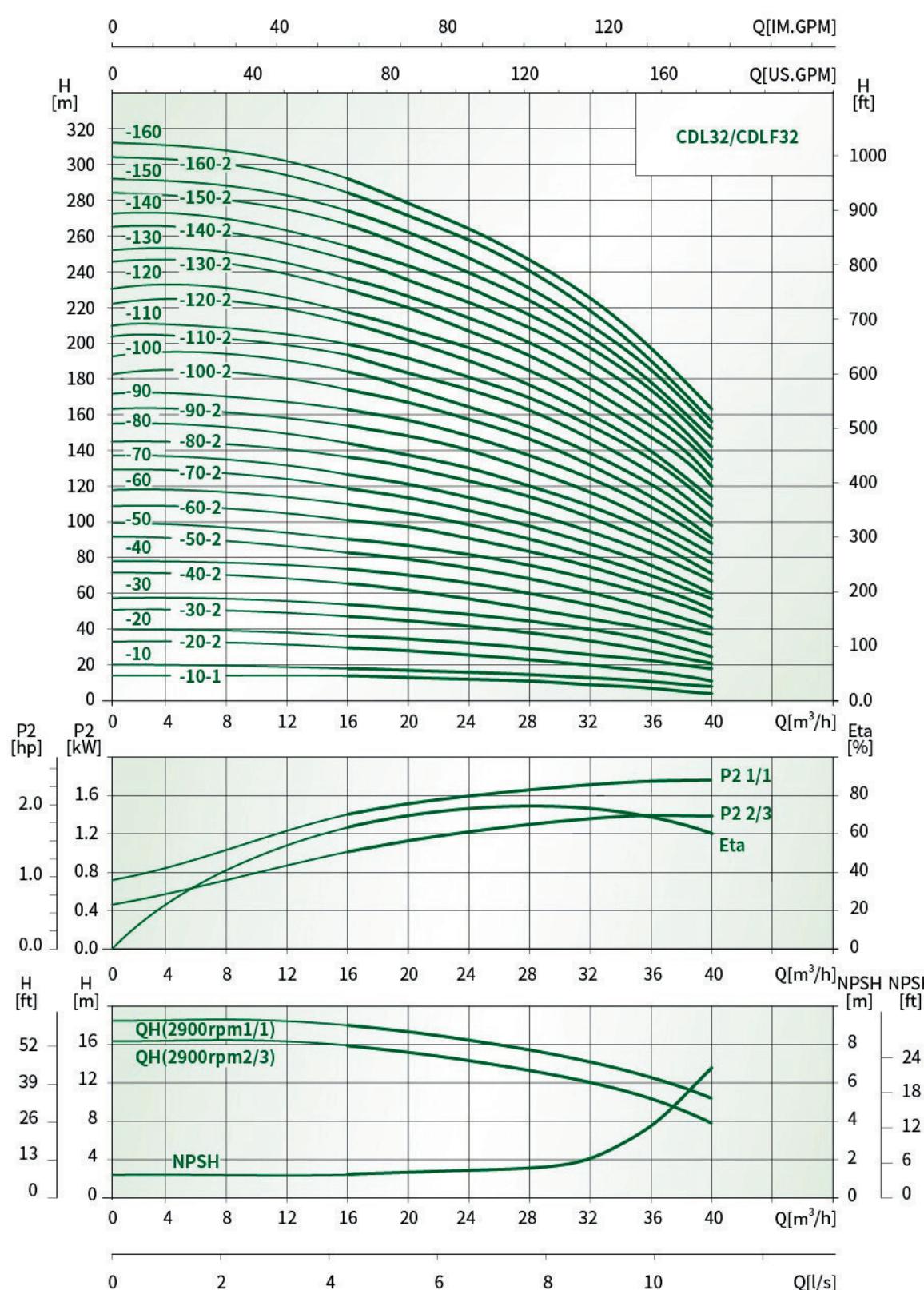
Size And Weight

Model	Size(mm)				Weight (kg)
	B1	B2	B1+B2	D1	
CDL(F) 20-1	387	245	632	170	142
CDL(F) 20-2	397	290	687	190	155
CDL(F) 20-3	452	335	787	230	188
CDL(F) 20-4	517	430	947	260	208
CDL(F) 20-5	562	430	992	260	208
CDL(F) 20-6	607	430	1037	260	208
CDL(F) 20-7	652	430	1082	260	208
CDL(F) 20-8	785	490	1275	330	255
CDL(F) 20-10	875	490	1365	330	255
CDL(F) 20-12	965	490	1455	330	255
CDL(F) 20-14	1055	490	1545	330	255
CDL(F) 20-17	1190	550	1740	330	255
					195

The overall dimensions of the single-phase motor and explosion-proof motor are a little different. Pls contact us for details,

# CDL/CDLF32,50HZ

Performance Curve



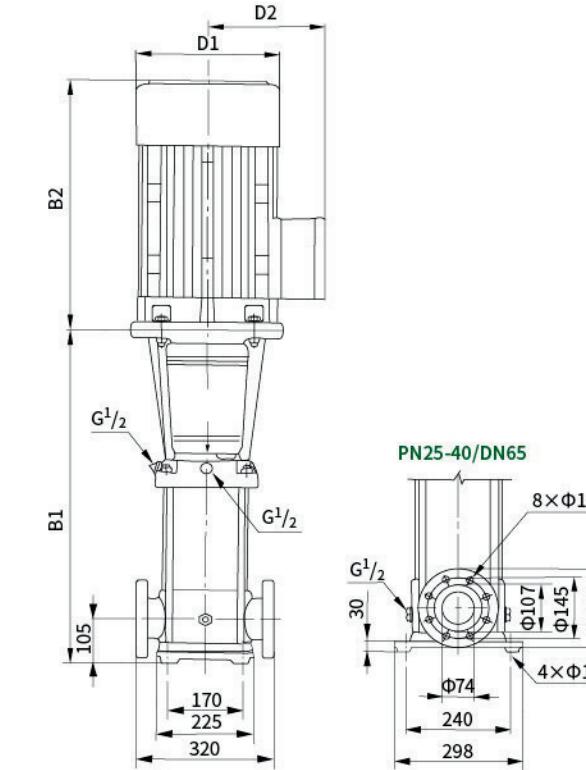
ISO9906 Annex A 2900rpm

# Technical Data

Performance Table

Model	Driving motor	Q							Model	Driving motor	Q							
			16	20	24	28	32	36				16	20	24	28	32	40	
CDL(F) 32-10-1	1.5	2	14	13	12	11	9	7	4	CDL(F) 32-90-2	18.5	25	154	148	140	129	117	82
CDL(F) 32-10	2.2	3	18	17	15	14	13	11	8	CDL(F) 32-90	18.5	25	162	156	147	136	124	88
CDL(F) 32-20-2	3.0	4	29	28	26	23	20	16	11	CDL(F) 32-100-2	18.5	25	175	166	157	146	131	91
CDL(F) 32-20	4.0	5.5	36	34	32	29	27	23	18	CDL(F) 32-100	18.5	25	182	173	164	152	138	98
CDL(F) 32-30-2	5.5	7.5	47	44	41	38	33	28	21	CDL(F) 32-110-2	22	30	193	184	173	164	146	102
CDL(F) 32-30	5.5	7.5	54	51	48	44	40	35	27	CDL(F) 32-110	22	30	200	191	180	168	153	109
CDL(F) 32-40-2	7.5	10	65	62	58	53	46	40	30	CDL(F) 32-120-2	22	30	211	201	189	178	160	113
CDL(F) 32-40	7.5	10	72	69	65	59	53	47	37	CDL(F) 32-120	22	30	218	208	196	184	167	120
CDL(F) 32-50-2	11	15	83	79	74	68	60	52	41	CDL(F) 32-130-2	30	40	230	218	206	193	174	124
CDL(F) 32-50	11	15	90	86	81	74	67	59	47	CDL(F) 32-130	30	40	237	225	213	200	181	131
CDL(F) 32-60-2	11	15	101	97	90	83	74	65	51	CDL(F) 32-140-2	30	40	247	235	222	210	189	135
CDL(F) 32-60	11	15	108	104	97	90	81	72	57	CDL(F) 32-140	30	40	255	242	229	216	196	142
CDL(F) 32-70-2	15	20	119	114	107	98	88	78	60	CDL(F) 32-150-2	30	40	266	253	239	224	203	145
CDL(F) 32-70	15	20	126	121	113	105	95	85	67	CDL(F) 32-150	30	40	274	260	246	231	210	152
CDL(F) 32-80-2	15	20	136	131	123	114	102	90	71	CDL(F) 32-160-2	30	40	284	270	255	240	218	156
CDL(F) 32-80	15	20	144	138	130	120	109	97	77	CDL(F) 32-160	30	40	292	277	262	246	225	163

Installation Sketch



Size And Weight

Model	Size(mm)				Weight (kg)	
	B1	B2	B1+B2	D1	D2	
CDL(F) 32-10-1/CDL(F) 32-10	505	290	795	190	155	64/68
CDL(F) 32-20-2/CDL(F) 32-20	575	315/335	890/910	197/230	165/180	77/85
CDL(F) 32-30-2/CDL(F) 32-30	645	430	1075	260	208	100
CDL(F) 32-40-2/CDL(F) 32-40	715	430	1145	260	208	109
CDL(F) 32-50-2/CDL(F) 32-50	890	490	1380	330	255	181
CDL(F) 32-60-2/CDL(F) 32-60	960	490	1450	330	255	185
CDL(F) 32-70-2/CDL(F) 32-70	1030	490	1520	330	255	199
CDL(F) 32-80-2/CDL(F) 32-80	1100	490	1590	330	255	203
CDL(F) 32-90-2/CDL(F) 32-90	1170	550	1720	330	255	222
CDL(F) 32-100-2/CDL(F) 32-100	1240	550	1790	330	255	227
CDL(F) 32-110-2/CDL(F) 32-110	1310	590	1900	360	285	272
CDL(F) 32-120-2/CDL(F) 32-120	1380	590	1970	360	285	276
CDL(F) 32-130-2/CDL(F) 32-130	1450	660	2110	400	310	337
CDL(F) 32-140-2/CDL(F) 32-140	1520	660	2180	400	310	341
CDL(F) 32-150-2/CDL(F) 32-150	1590	660	2250	400	310	345
CDL(F) 32-160-2/CDL(F) 32-160	1660	660	2320	400	310	350

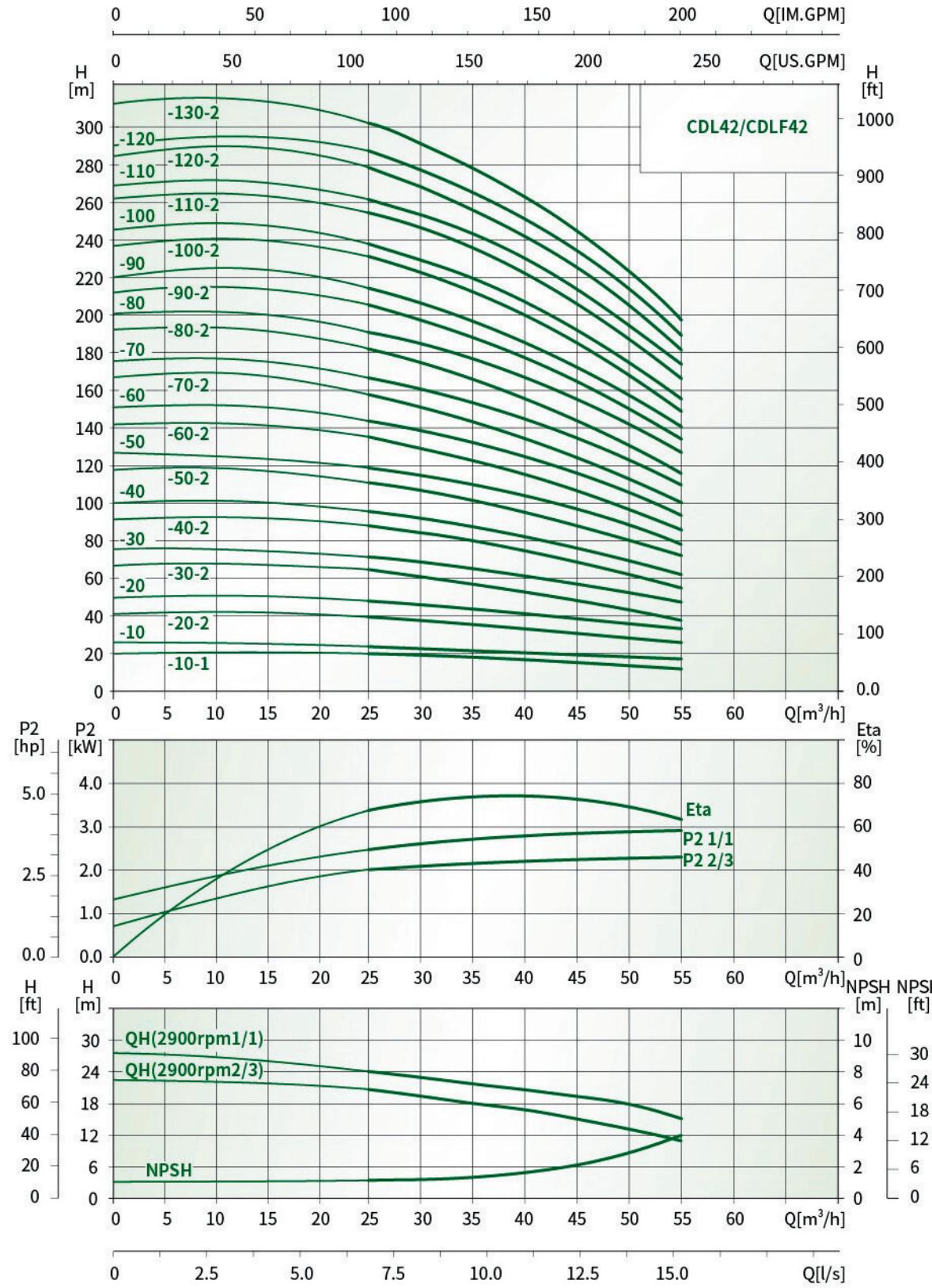
The overall dimensions of the single-phase motor and explosion-proof motor are a little different. Please contact us for details.

## **CDL/CDLF42,50HZ**

## Technical Data

## Performance Curve

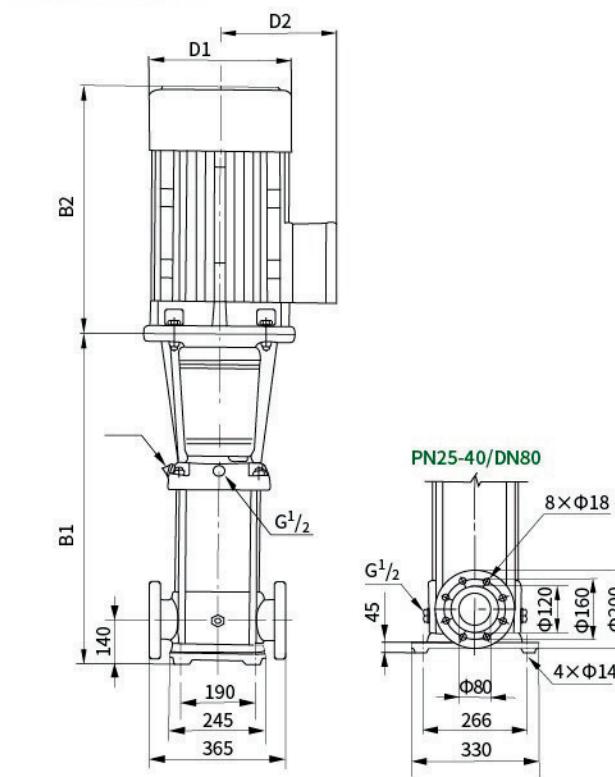
Iso9906 Annex A 2900rpm



## Performance Table

Model	Driving motor		Q (m³/h)	25	30	35	40	42	45	50	55
	kW	HP									
CDL(F) 42-10-1	3.0	4		20	19	18	17	16	15	13	11
CDL(F) 42-10	4.0	5.5		24	23	22	21	20	19	18	16
CDL(F) 42-20-2	5.5	7.5		40	38	36	33	32	30	27	23
CDL(F) 42-20	7.5	10		48	46	44	42	41	39	35	31
CDL(F) 42-30-2	11	15		63	61	58	54	52	50	44	38
CDL(F) 42-30	11	15		71	69	66	63	61	58	53	47
CDL(F) 42-40-2	15	20		87	84	80	75	73	69	62	54
CDL(F) 42-40	15	20		95	92	88	84	81	78	71	62
CDL(F) 42-50-2	18.5	25		111	107	102	96	93	88	80	69
CDL(F) 42-50	18.5	25		119	115	110	105	101	97	88	78
CDL(F) 42-60-2	22	30		135	130	124	117	113	108	97	85
CDL(F) 42-60	22	30	H (m)	143	138	132	125	122	116	106	93
CDL(F) 42-70-2	30	40		158	152	146	138	134	127	115	100
CDL(F) 42-70	30	40		166	161	154	146	142	135	124	109
CDL(F) 42-80-2	30	40		182	175	168	159	154	146	133	116
CDL(F) 42-80	30	40		190	184	176	167	162	154	141	124
CDL(F) 42-90-2	30	40		205	198	190	180	174	166	150	132
CDL(F) 42-90	37	50		214	207	198	188	183	174	159	140
CDL(F) 42-100-2	37	50		230	221	212	200	194	185	168	147
CDL(F) 42-100	37	50		238	230	220	209	203	193	177	155
CDL(F) 42-110-2	45	60		255	246	236	223	217	206	188	165
CDL(F) 42-110	45	60		263	255	244	232	225	214	196	173
CDL(F) 42-120-2	45	60		280	270	259	245	238	226	206	181
CDL(F) 42-120	45	60		289	280	268	255	247	236	216	190
CDL(F) 42-130-2	45	60		305	294	282	267	259	247	225	198

## Installation Sketch



#### Size And Weight

Model	Size(mm)					Weight (kg)
	B1	B2	B1+B2	D1	D2	
CDL(F) 42-10-1	561	315/335	876/896	197/230	165/188	83/90
CDL(F) 42-10						
CDL(F) 42-20-2	641	430	1071	260	208	105/110
CDL(F) 42-20						
CDL(F) 42-30-2	826	490	1316	330	255	183
CDL(F) 42-30						
CDL(F) 42-40-2	906	490	1396	330	255	197
CDL(F) 42-40						
CDL(F) 42-50-2	986	550	1536	330	255	221
CDL(F) 42-50						
CDL(F) 42-60-2	1066	590	1656	360	285	261
CDL(F) 42-60						
CDL(F) 42-70-2	1146	660	1806	400	310	320
CDL(F) 42-70						
CDL(F) 42-80-2	1226	660	1886	400	310	324
CDL(F) 42-80						
CDL(F) 42-90-2	1306	660	1966	400	310	328/352
CDL(F) 42-90						
CDL(F) 42-100-2	1386	660	2046	400	310	355
CDL(F) 42-100						
CDL(F) 42-110-2	1466	700	2166	450	345	426
CDL(F) 42-110						
CDL(F) 42-120-2	1546	700	2246	450	345	432
CDL 42-120						
CDL 42-130-2	1626	700	2326	450	345	438
CDL 42-130						

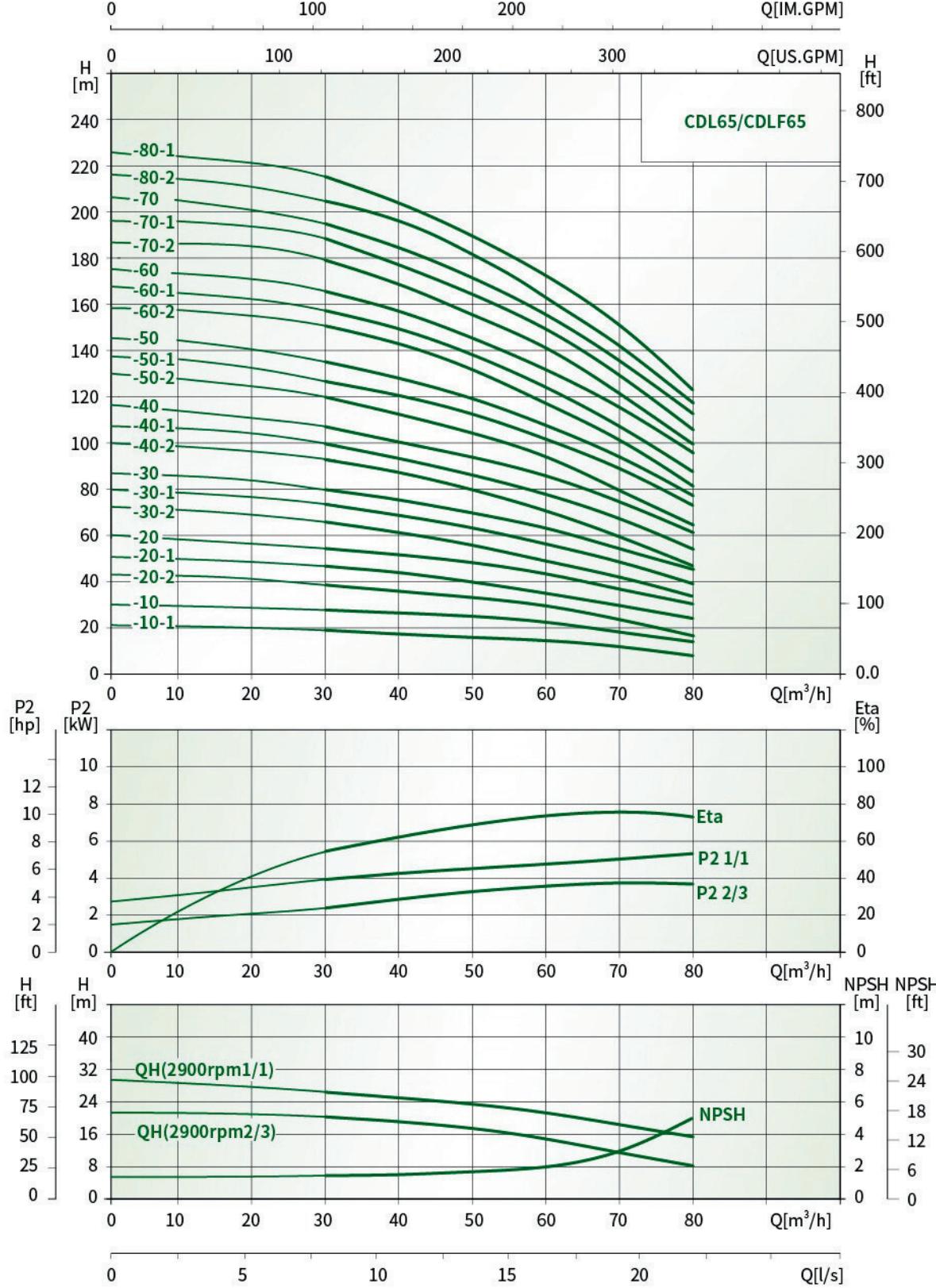
The overall dimensions of explosion-proof motor is a little different. Pls contact us for details.

# **CDL/CDLF65,50HZ**

## Technical Data

## Performance Curve

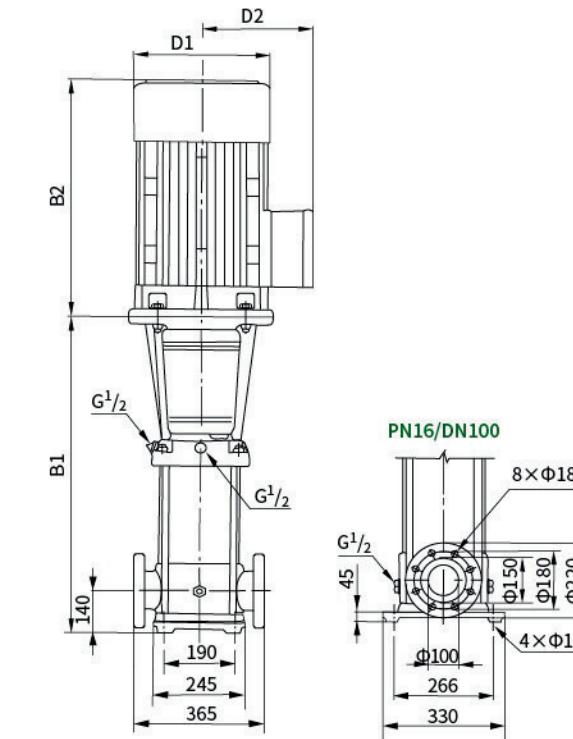
ISO9906 Annex A 2900rpm



Performance Table

Model	Driving motor		Q (m³/h)	30	40	50	60	65	70	80
	kW	HP								
CDL(F) 65-10-1	4.0	5.5		19	18	16	14	13	11	8
CDL(F) 65-10	5.5	7.5		27	25	23	21	20	18	15
CDL(F) 65-20-2	7.5	10		39	36	33	29	26	23	17
CDL(F) 65-20-1	11	15		46	44	40	36	33	30	24
CDL(F) 65-20	11	15		53	51	47	43	40	37	30
CDL(F) 65-30-2	15	20		66	62	56	50	46	41	32
CDL(F) 65-30-1	15	20		73	69	63	57	53	48	39
CDL(F) 65-30	18.5	25		80	76	70	64	60	55	46
CDL(F) 65-40-2	18.5	25		92	87	80	71	66	60	47
CDL(F) 65-40-1	22	30		100	94	87	78	73	67	54
CDL(F) 65-40	22	30	H	107	101	94	85	80	74	61
CDL(F) 65-50-2	30	40	(m)	121	114	105	95	88	80	64
CDL(F) 65-50-1	30	40		128	121	112	102	95	87	71
CDL(F) 65-50	30	40		136	129	119	109	102	94	78
CDL(F) 65-60-2	30	40		150	142	131	118	110	101	81
CDL(F) 65-60-1	37	50		157	149	138	125	117	108	88
CDL(F) 65-60	37	50		164	156	145	132	124	115	95
CDL(F) 65-70-2	37	50		179	169	156	141	132	121	99
CDL(F) 65-70-1	37	50		186	176	163	148	139	128	106
CDL(F) 65-70	45	60		193	183	170	155	146	135	112
CDL(F) 65-80-2	45	60		207	196	182	164	154	142	116
CDL(F) 65-80-1	45	60		215	203	189	171	161	149	123

## Installation Sketch



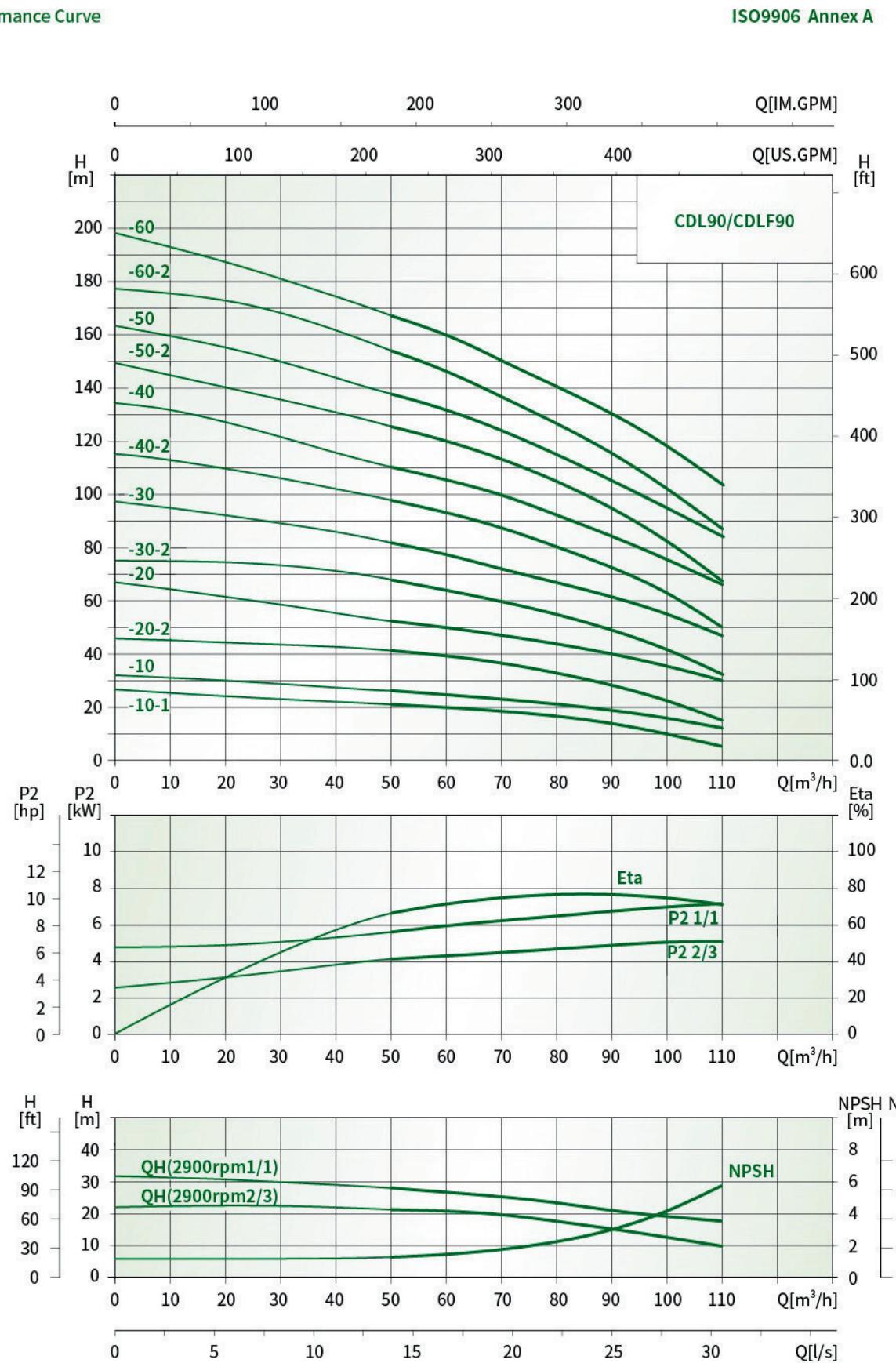
## Size And Weight

Model	Size(mm)					Weight (kg)
	B1	B2	B1+B2	D1	D2	
CDL(F) 65-10-1	561	335	896	230	188	93
CDL(F) 65-10	561	430	991	260	208	105
CDL(F) 65-20-2	644	430	1074	260	208	110
CDL(F) 65-20-1	754	490	1244	330	255	182
CDL(F) 65-20	754	490	1244	330	255	182
CDL(F) 65-30-2	836	490	1326	330	255	196
CDL(F) 65-30-1	836	490	1326	330	255	197
CDL(F) 65-30	836	550	1386	330	255	221
CDL(F) 65-40-2	919	550	1469	330	255	225
CDL(F) 65-40-1	919	590	1509	360	285	258
CDL(F) 65-40	919	590	1509	360	285	258
CDL(F) 65-50-2	1001	660	1661	400	310	319
CDL(F) 65-50-1	1001	660	1661	400	310	319
CDL(F) 65-50	1001	660	1661	400	310	320
CDL(F) 65-60-2	1084	660	1744	400	310	325
CDL(F) 65-60-1	1084	660	1744	400	310	349
CDL(F) 65-60	1084	660	1744	400	310	349
CDL(F) 65-70-2	1166	660	1826	400	310	353
CDL(F) 65-70-1	1166	660	1826	400	310	353
CDL(F) 65-70	1166	700	1866	460	340	420
CDL(F) 65-80-2	1248	700	1948	460	340	424
CDL(F) 65-80-1	1248	700	1948	460	340	424

The overall dimensions of explosion-proof motor is a little different. Pls contact us for details.  
(For CDL 65 series, PN 25-40/DN 100 standard lange is also available if required)

# CDL/CDLF90,50HZ

Performance Curve



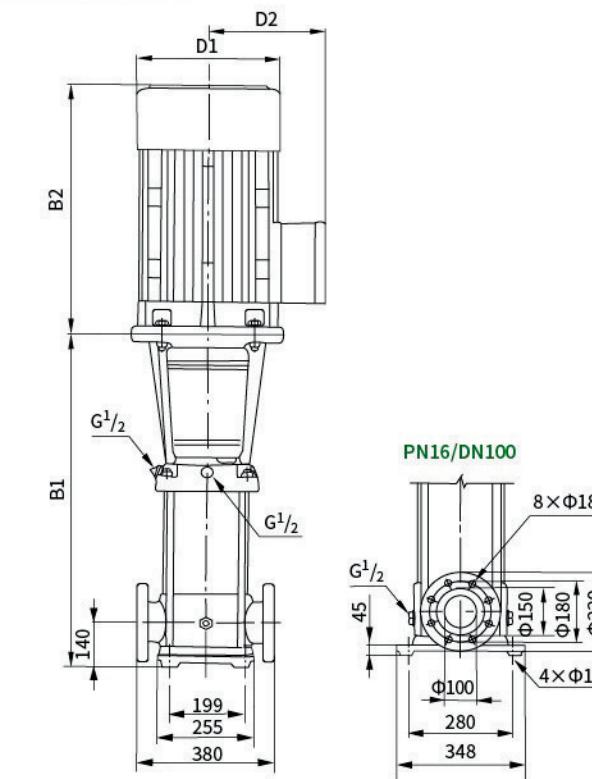
CDL/CDLF85 50Hz

## Technical Data

Performance Table

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

Installation Sketch



Size And Weight

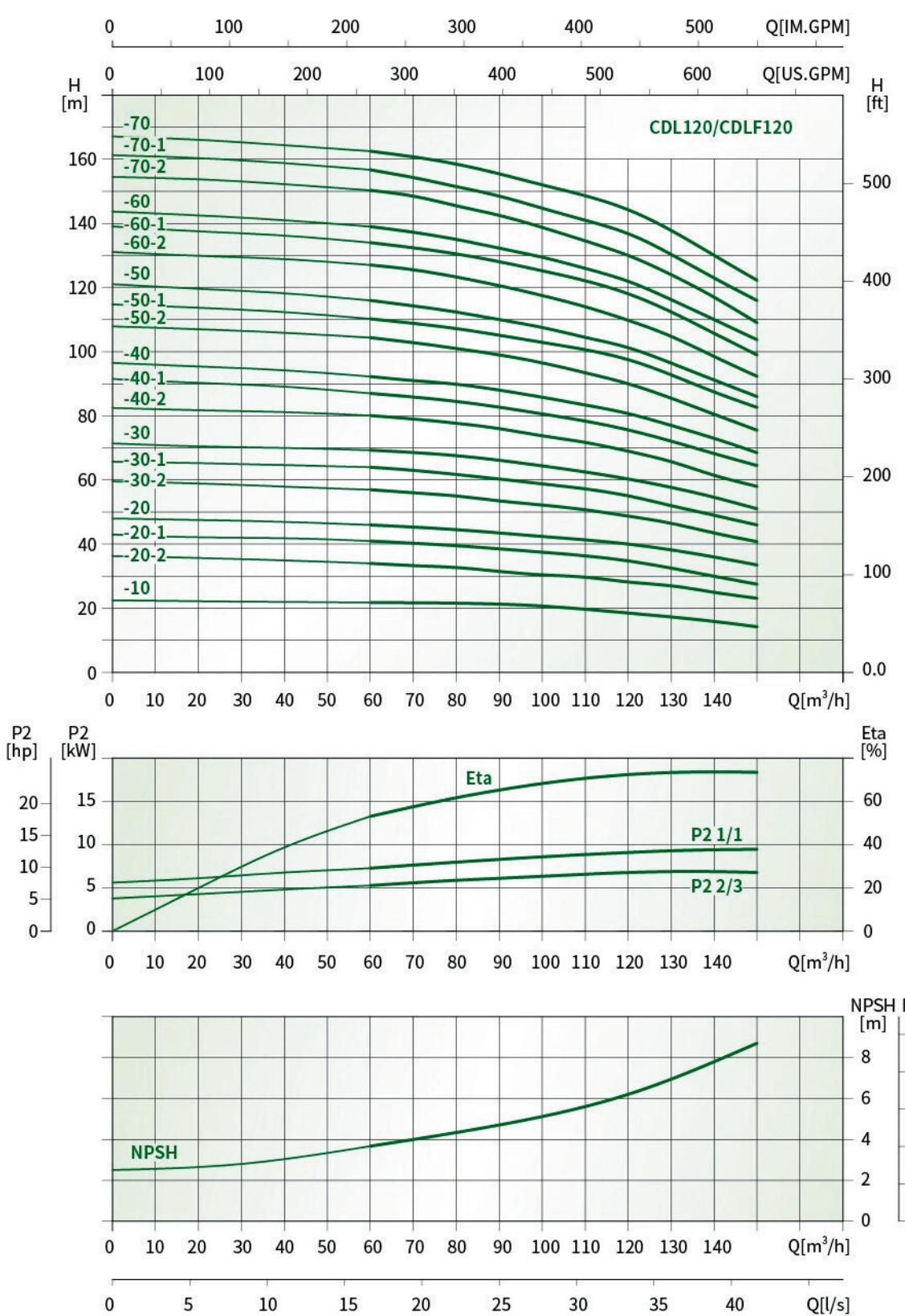
Model	Size(mm)					Weight (kg)
	B1	B2	B1+B2	D1	D2	
CDL(F) 90-10-1	571	430	1001	260	208	105
CDL(F) 90-10	571	430	1001	260	208	110
CDL(F) 90-20-2	773	490	1263	330	255	181
CDL(F) 90-20	773	490	1263	330	255	192
CDL(F) 90-30-2	865	550	1415	330	255	215
CDL(F) 90-30	865	590	1455	360	285	252
CDL(F) 90-40-2	957	660	1617	400	310	312
CDL(F) 90-40	957	660	1617	400	310	312
CDL(F) 90-50-2	1049	660	1709	400	310	336
CDL(F) 90-50	1049	660	1709	400	310	336
CDL(F) 90-60-2	1141	700	1841	460	340	407
CDL(F) 90-60	1141	700	1841	460	340	407

CDL/CDLF85 50Hz

The overall dimensions of explosion-proof motor is a little different. Pls contact us for details.  
(For CDL 85 series, PN 25-40/DN 100 standard lange is also available if required)

# CDL/CDLF120,50HZ

Performance Curve

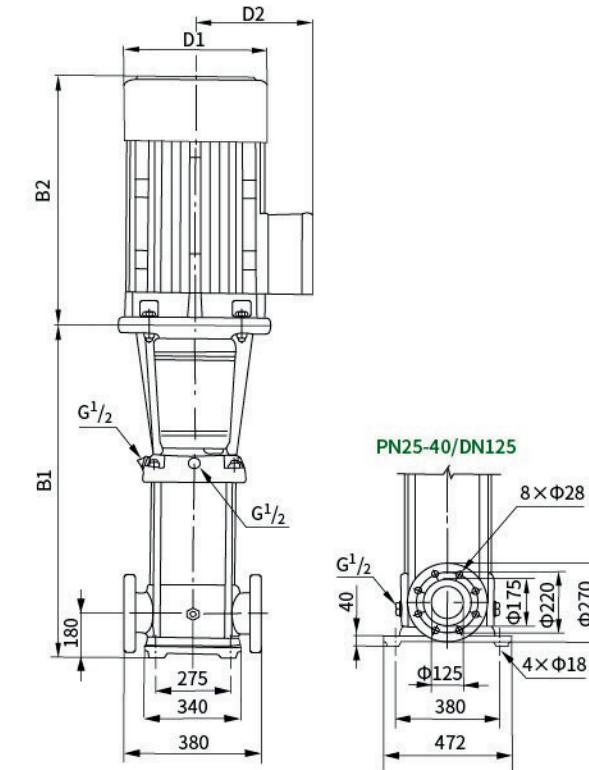


## Technical Data

Performance Table

Model	Driving motor kW HP	Q (m <sup>3</sup> /h)	60	70	80	90	100	110	120	130	140	150
CDL(F) 120-10	11 15	22	21.8	21.6	21	20.5	19.5	18.5	17	16	15	
CDL(F) 120-20-2	15 20	34	33.6	33	31	30.2	30	28.5	27	25	24	
CDL(F) 120-20-1	18.5 25	41	40	39.5	38.5	37	36.5	34.5	32.5	30	27.5	
CDL(F) 120-20	22 30	46	45	44.5	43.5	42.4	41	40	38	36	33.5	
CDL(F) 120-30-2	30 40	57	56	55	53.5	52	51	49	46.5	43.5	41	
CDL(F) 120-30-1	30 40	64	63	62	60	58.5	57.5	55.5	52	49	46	
CDL(F) 120-30	30 40	69.5	68.5	67.5	66	64.4	62.5	61	57.5	54.5	51	
CDL(F) 120-40-2	37 50	80.5	79	78	76	73.5	72	69	66	61.5	58	
CDL(F) 120-40-1	37 50	87	86	84.5	82	80	78	76	72	68	64.5	
CDL(F) 120-40	45 60	92.5	91	90	88	85.5	83	81	77	73	68.5	
CDL(F) 120-50-2	45 60	104.5	103	101	99	96	93	90	85.5	80.5	75.5	
CDL(F) 120-50-1	45 60	110.5	109	107.5	105	102	100	97	92	86.5	83	
CDL(F) 120-50	55 75	115.5	114	113	110	107.5	104.5	101.5	96	91	86	
CDL(F) 120-60-2	55 75	128	125.5	123	121	117.3	113.5	110	104.5	98.5	92.5	
CDL(F) 120-60-1	55 75	134	132	130.5	127	124	121	118	111	105	100	
CDL(F) 120-60	75 100	139	137	135	132	128.8	126	123	116	110	104	
CDL(F) 120-70-2	75 100	151	148	145.5	143	138.6	134	130	123.5	116.5	109	
CDL(F) 120-70-1	75 100	156.5	154	152	148.5	144.5	141	137.5	130	123	116.5	
CDL(F) 120-70	75 100	162.5	160.5	158.5	155	151	148	145	137	129	123	

Installation Sketch



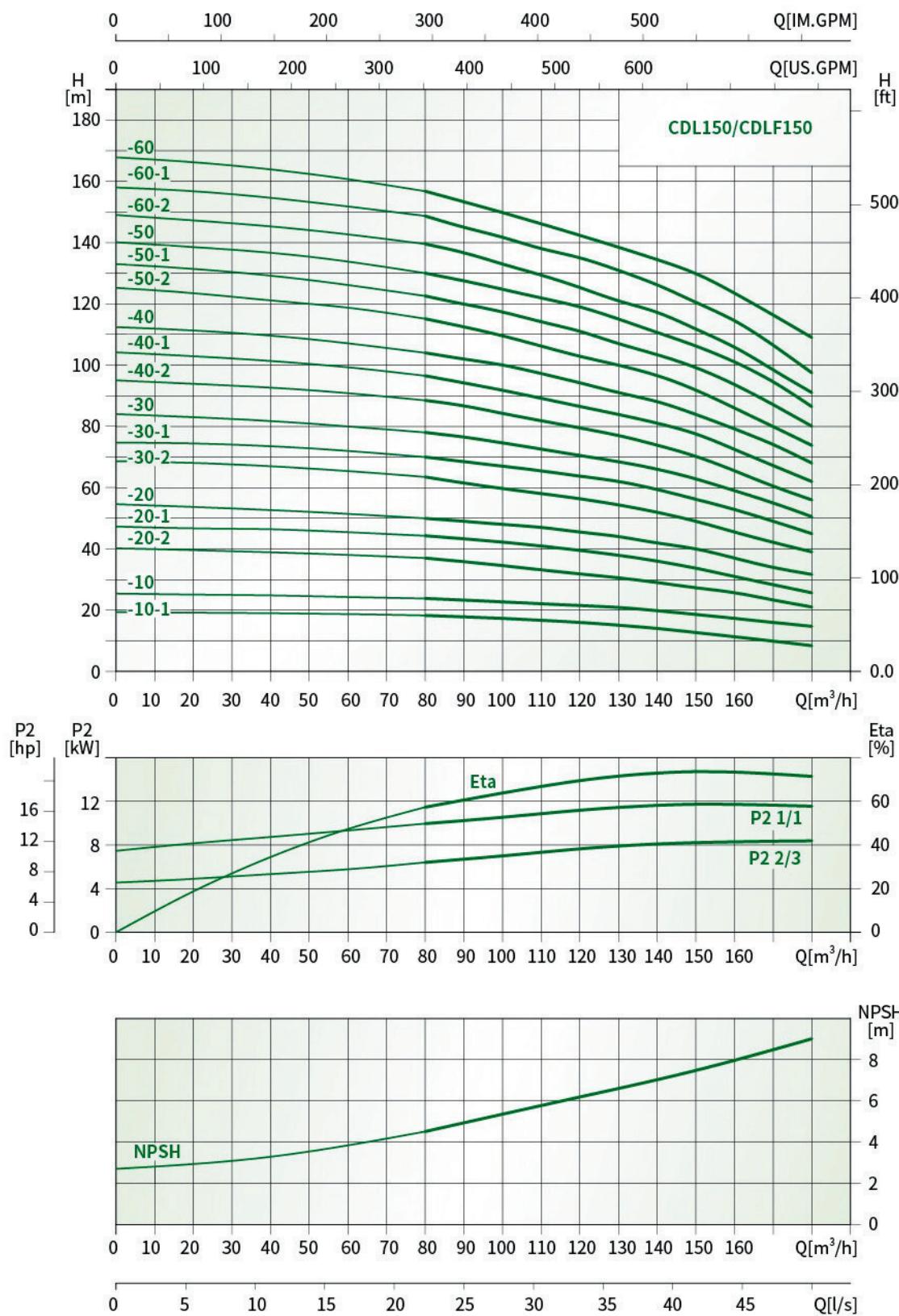
Size And Weight

Model	Size(mm)				Weight (kg)	
	B1	B2	B1+B2	D1		
CDL(F) 120-10	840	490	1330	330	255	230
CDL(F) 120-20-2	1000	490	1490	330	255	245
CDL(F) 120-20-1	1000	550	1550	330	255	250
CDL(F) 120-20	1000	590	1590	360	285	285
CDL(F) 120-30-2	1160	660	1820	400	310	360
CDL(F) 120-30-1	1160	660	1820	400	310	360
CDL(F) 120-30	1160	660	1820	400	310	360
CDL(F) 120-40-2	1320	660	1980	400	310	400
CDL(F) 120-40-1	1320	660	1980	400	310	400
CDL(F) 120-40	1320	700	2020	460	340	460
CDL(F) 120-50-2	1480	700	2180	460	340	470
CDL(F) 120-50-1	1480	700	2180	460	340	470
CDL(F) 120-50	1510	770	2280	540	370	575
CDL(F) 120-60-2	1670	770	2440	540	370	585
CDL(F) 120-60-1	1670	770	2440	540	370	585
CDL(F) 120-60	1670	845	2515	580	410	705
CDL(F) 120-70-2	1830	845	2675	580	410	715
CDL(F) 120-70-1	1830	845	2675	580	410	715
CDL(F) 120-70	1830	845	2675	580	410	715

The overall dimensions of explosion-proof motor is a little different. Pls contact us for details.

# CDL/CDLF150,50HZ

Performance Curve

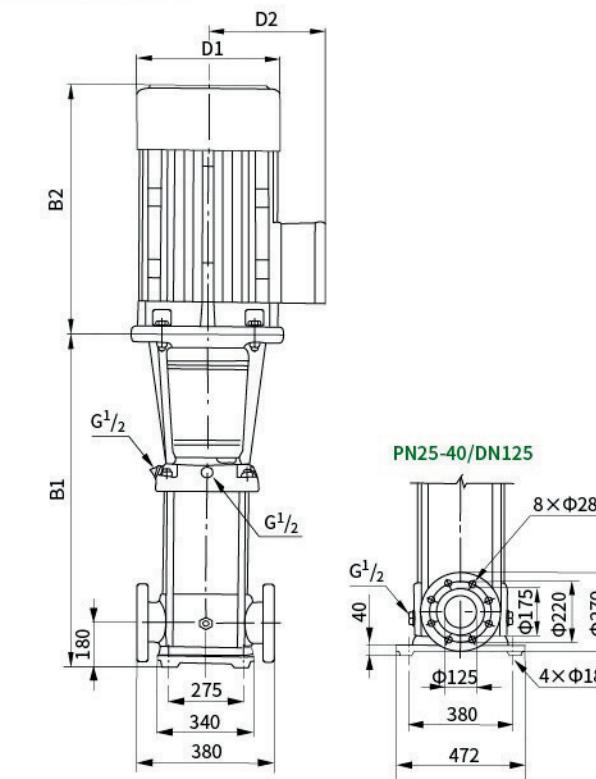


## Technical Data

Performance Table

Model	Driving motor kW HP	Q (m³/h)	H (m)											
			80	90	100	110	120	130	140	150	160	170	180	
CDL(F) 150-10-1	11 15	18.3	17.8	17.3	17	16	15	14	12.5	11	10	8.5		
CDL(F) 150-10	15 20	24	23	22.5	22	21.5	20.5	20	18.5	17	16	15		
CDL(F) 150-20-2	18.5 25	37	35.5	34	33	32	31	29	27.5	26	23	21		
CDL(F) 150-20-1	22 30	44.3	43	42	40	39	38.5	37.5	35	33	30	27		
CDL(F) 150-20	30 40	50	49	48	47	45.5	44	42	40	37	34	32		
CDL(F) 150-30-2	30 40	63.5	61	59	57.5	56	54.5	53	49	45.5	42	39		
CDL(F) 150-30-1	37 50	70	68	67	65	63	62	60	56	53	49	45		
CDL(F) 150-30	37 50	78	76.5	75	73	70.5	68	66	63	59	55	50.5		
CDL(F) 150-40-2	45 60	89	87	84	81.5	79	77	74.5	70.5	65.5	60	56		
CDL(F) 150-40-1	45 60	96.5	94	91.5	89	86.5	84	81.5	77	72.5	67	62		
CDL(F) 150-40	55 75	104	102	100	97	95	91	88	84	79.5	74	68		
CDL(F) 150-50-2	55 75	115.5	112	109	106	102.5	100	97	92	86	79	73.5		
CDL(F) 150-50-1	75 100	122.5	119.5	117	113.5	111.5	107.5	104.5	99	93.5	87	80		
CDL(F) 150-50	75 100	130	127.5	125	121	119	115	111.5	106.5	101	94.5	86.5		
CDL(F) 150-60-2	75 100	140	137	133	130	126	121	118	112	106	98	91		
CDL(F) 150-60-1	75 100	148.5	145	141.7	137.5	135	131	127	120.5	114.5	106.5	97.5		
CDL(F) 150-60	75 100	157	153	149	145	142	139.5	137	130	123.5	116	109		

Installation Sketch



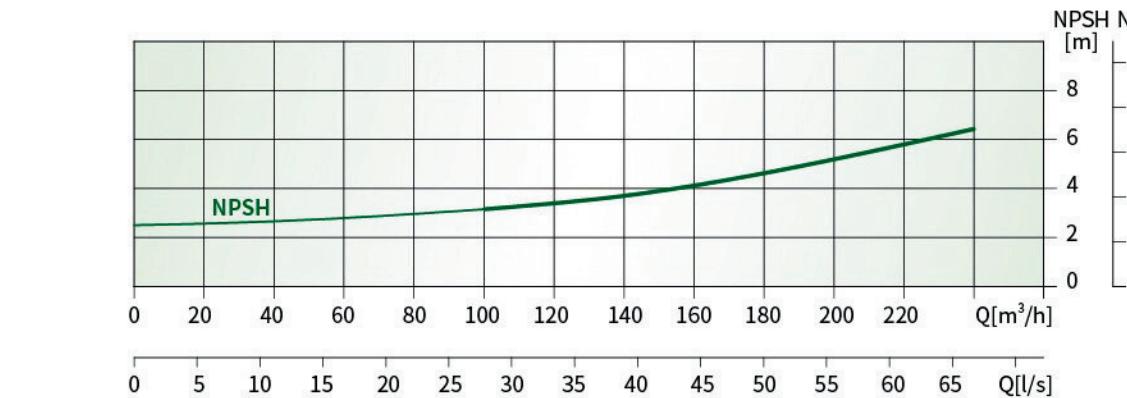
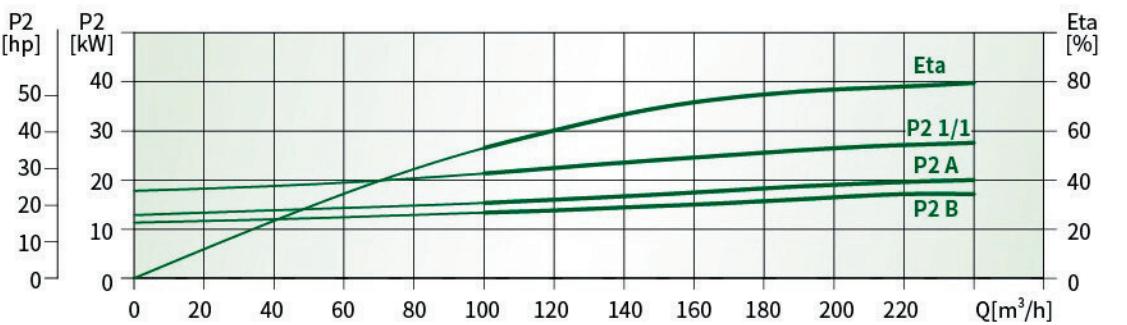
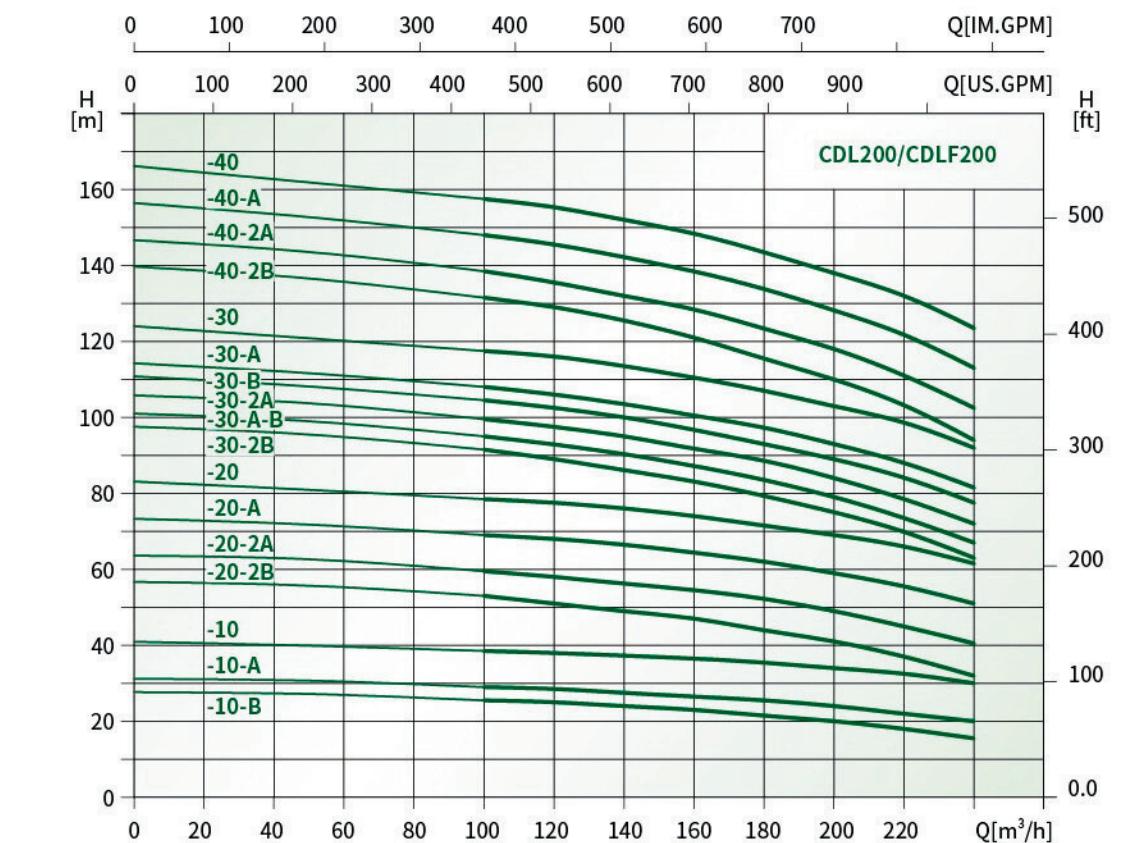
Size And Weight

Model	Size(mm)				Weight (kg)	
	B1	B2	B1+B2	D1		
CDL(F) 150-10-1	840	490	1330	330	255	230
CDL(F) 150-10	840	490	1330	330	255	235
CDL(F) 150-20-2	1000	550	1550	330	255	250
CDL(F) 150-20-1	1000	590	1590	360	285	295
CDL(F) 150-20	1000	660	1660	400	310	350
CDL(F) 150-30-2	1160	660	1820	400	310	360
CDL(F) 150-30-1	1160	660	1820	400	310	360
CDL(F) 150-30	1160	660	1820	400	310	385
CDL(F) 150-40-2	1320	700	2020	460	340	460
CDL(F) 150-40-1	1320	700	2020	460	340	460
CDL(F) 150-40	1350	770	2120	540	370	560
CDL(F) 150-50-2	1510	770	2280	540	370	570
CDL(F) 150-50-1	1510	845	2355	580	410	690
CDL(F) 150-50	1510	845	2355	580	410	690
CDL(F) 150-60-2	1670	845	2515	580	410	700
CDL(F) 150-60-1	1670	845	2515	580	410	700
CDL(F) 150-60	1670	845	2515	580	410	700

The overall dimensions of explosion-proof motor is a little different. Pls contact us for details.

# CDL/CDLF200,50HZ

Performance Curve

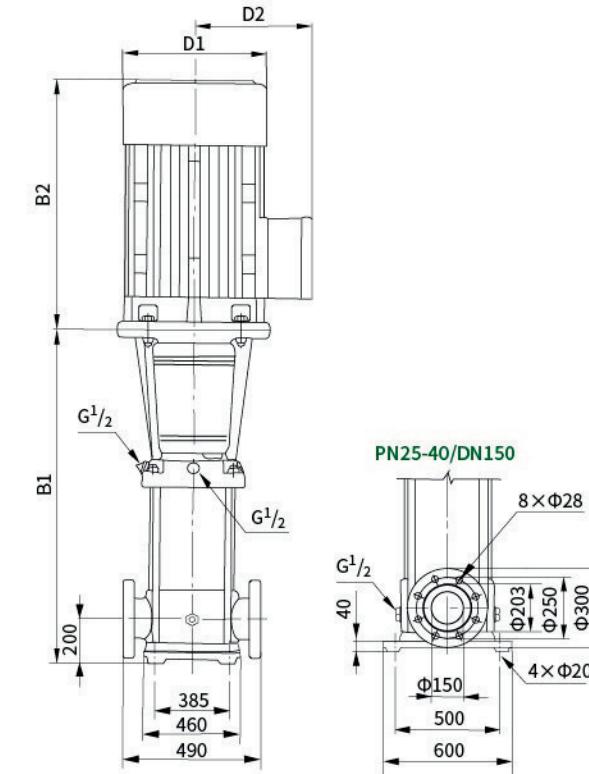


## Technical Data

Performance Table

Model	Driving motor		Q (m³/h)	H (m)							
	kW	HP		100	120	140	160	180	200	220	240
CDL(F) 200-10-B	18.5	25	25.5	25	24	23	21.5	20	18	15.5	
CDL(F) 200-10-A	22	30	29	28.5	27.5	26.5	25.5	24	22	20	
CDL(F) 200-10	30	40	38.5	38	37.5	36.5	35	34	32.5	30	
CDL(F) 200-20-2B	37	50	53	51	49	47	44	41	37	32	
CDL(F) 200-20-2A	45	60	59.5	58	56	54	52.5	49	44.5	40.5	
CDL(F) 200-20-A	55	75	69	68	66	64	62	59	55.5	51	
CDL(F) 200-20	55	75	78.5	77.5	76	74	71.5	69	66	61.5	
CDL(F) 200-30-2B	75	100	91.5	89	86.5	83.5	79	75	70	63	
CDL(F) 200-30-A-B	75	100	95	93	90	87	83.5	79	73.5	67	
CDL(F) 200-30-2A	75	100	99.5	97.5	94.5	91.5	89	84	78.5	72	
CDL(F) 200-30-B	75	100	104.5	102.5	100	97	93	89	84.5	77.5	
CDL(F) 200-30-A	75	100	108	106	103.5	100.5	97.5	93	88	81.5	
CDL(F) 200-30	90	120	117.5	116	113.5	110.5	107	103	99	92	
CDL(F) 200-40-2B	90	120	131.5	129	125.5	121	115.5	110	103.5	94	
CDL(F) 200-40-2A	110	150	138.5	136	132	128	124	118	111	102.5	
CDL(F) 200-40-A	110	150	148	145.5	142.5	138	134	128	122	113	
CDL(F) 200-40	110	150	157.5	155.5	152.5	148	143.5	138	132.5	123.5	

Installation Sketch



Size And Weight

Model	Size(mm)				Weight (kg)	
	B1	B2	B1+B2	D1		
CDL(F) 200-10-B	907	550	1457	330	255	311
CDL(F) 200-10-A	907	590	1497	360	285	347
CDL(F) 200-10	907	660	1567	400	310	403
CDL(F) 200-20-2B	1101	660	1761	400	310	447
CDL(F) 200-20-2A	1101	700	1801	460	340	504
CDL(F) 200-20-A	1131	770	1901	540	370	595
CDL(F) 200-20	1131	770	1901	540	370	595
CDL(F) 200-30-2B	1325	845	2170	580	410	748
CDL(F) 200-30-A-B	1325	845	2170	580	410	748
CDL(F) 200-30-2A	1325	845	2170	580	410	748
CDL(F) 200-30-B	1325	845	2170	580	410	748
CDL(F) 200-30-A	1325	845	2170	580	410	748
CDL(F) 200-30	1325	895	2220	580	410	817
CDL(F) 200-40-2B	1519	895	2414	580	410	830
CDL(F) 200-40-2A	1519	1140	2659	645	550	1180
CDL(F) 200-40-A	1519	1140	2659	645	550	1180
CDL(F) 200-40	1519	1140	2659	645	550	1180

The overall dimensions of explosion-proof motor is a little different. Pls contact us for details.