



SWP
Water Pumps



CDL Vertical Multistage
Centrifugal Pump, 50Hz

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Vertical Multistage Pumps

English - SWP High Pressure Pumps CDL,CDLF,CDLT with pumping pressure up to 280 meter and flow up to 120 m³/h. All essential parts like shaft, impellers and intermediate chambers are fully stainless steel AISI 304 (W-Nr. 1.43.01). On request the complete pump can be supplied in stainless steel or with higher grad stainless steel AISI 316 (W-Nr. 1.44.01). Usually the pumps are equipped with mechanical seals tungsten carbide/carbon. Special seals are applied according to the pumping liquid. The pumps have got high efficiency.

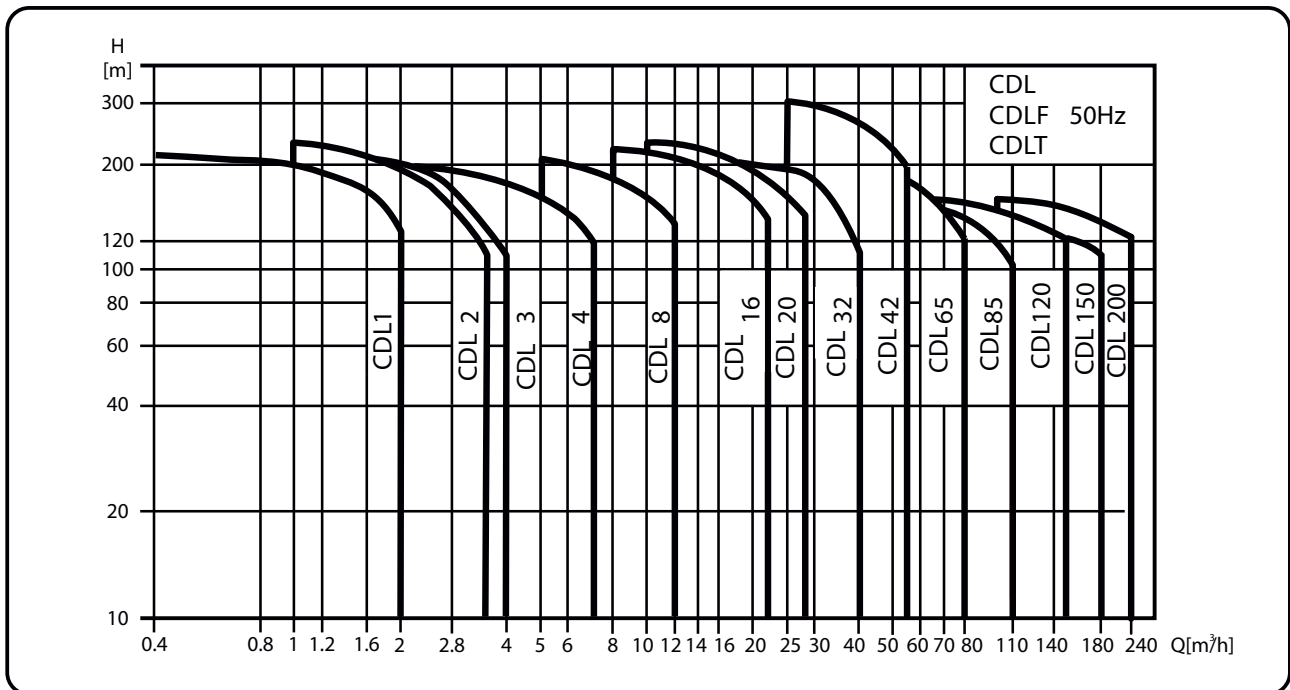
Deutsch - SWP Hochdruckpumpen der Baureihe CDL,CDLF,CDLT mit Förderhöhen bis zu 280 Metern und Fördermengen bis zu 120 m³/h. Sämtliche wesentlichen Teile, wie zum Beispiel die Welle, Laufräder und Zwischenkammern sind komplett aus Edelstahl AISI 304 (W-Nr. 1.43.01) gefertigt. Die Pumpen sind auch komplett in Edelstahl oder sogar in höheren Legierungen AISI 316 (W-Nr. 1.44.01) lieferbar. Standardgemäss kommen die Gleitringdichtungen Kohle – Hartmetall zum Einsatz oder andere Materialpaarungen entsprechend dem Fördermedium. Die Pumpen zeichnen sich durch einen hohen Wirkungsgrad, geringen Platzbedarf und Wartungsfreiheit aus.

Français - Les pompes de haute pression de l'assortiment CDL,CDLF,CDLT avec hauteurs de propulsion jusqu'à 280 mètres et puissance de propulsion jusqu'à 120 m³/h. Toutes les pièces principales comme par exemple l'axe, les roues libres et les espaces intermédiaires sont entièrement fabriquées en acier inoxydable AISI 304 (W-No. 1.43.01). Les pompes sont également livrables en acier inoxydable uniquement ou même en alliages AISI 316 plus hauts (W-No. 1.44.01). De façon standard, les joints mécanique en charbon et métal dur sont activés ou d'autres, de matériaux correspondant à la propulsion moyenne. Les pompes se distinguent par un haut degré d'efficacité, une demande d'espace moindre et sont libres de maintenance.

Italiano - SWP – Pompe ad alta pressione CDL,CDLF,CDLT, capaci di prevalenze fino a 280m e portate fino a 120 m³/h. La costruzione prevede ACCIAIO INOX AISI 304 (W-Nr. 1.43.01) per le parti essenziali come giranti, albero e camere intermedie. A richiesta possono essere fornite completamente in ACCIAIO INOX AISI 316 (W-Nr. 1.44.01). La tenuta meccanica standard prevede controfaccie in carburo di tungsteno e grafite. Tenute meccaniche speciali sono previste per liquidi diversi dall'acqua. Le pompe garantiscono un alto rendimento, esenti da manutenzione e risparmio di spazio nell'installazione.

Performance Scope

The performance curve applies to the CDL,CDLF and CDLT version of the pump.



Product range

Description	CDL1	CDL2	CDL3	CDL4	CDL8	CDL16	CDL20	CDL32	CDL42	CDL65	CDL85	CDL120	CDL150	CDL200
Rated flow [m³/h]	1	2	3	4	8	16	20	32	42	65	85	120	150	200
Rated flow [l/s]	0.28	0.56	0.83	1.1	2.2	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	1.5~8	5~12	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	0.42~2.2	1.4~3.3	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	23	26	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	2.2~15	1.1~18.5	1.5~30	3.0~45	4.0~45	5.5~45	11~75	11~75	8.5~110
Temperature range	-15 +120													
Max. efficiency [%]	44	46	54	59	64	66	69	76	78	80	81	74	73	79
Type														
CDL	•	•	•	•	•	•	•	•	•	•	•	•	•	•
CDLF/CDLT	•	•	•	•	•	•	•	•	•	•	•	•	•	•
CDL Pipe connection														
DIN Flange	DN25	DN25	DN25	DN32	DN40	DN50	DN50	DN65	DN80	DN100	DN100	DN125	DN125	DN150
Oval Flange	G1	G1	G1	G1 1/4	G1 1/2									
CDLF/CDLT Pipe connection														
DIN Flange	DN25	DN25	DN25	DN32	DN40	DN50	DN50	DN65	DN80	DN100	DN100	DN125	DN125	DN150
Cutting ferrule joint	•	•	•	•	•	•	•							
Pipe thread	•	•	•	•	•	•	•							

Pump

CDL,CDLF,CDLT is a kind of vertical non-self priming multistage centrifugal pump, which is driven by a standard electric motor. The motor output shaft directly connects with the pump shaft through a coupling.

The pressure-resistant cylinder and flow passage components are fixed between pump head and in-and outlet section with tie-bar bolts. The inlet and outlet are located at the pump bottom at the same plane.

This kind of pump can be equipped with an intelligent protector to effectively prevent it from dry-running, out-of-phase and overload.

Application

CDL,CDLF and CDLT pumps is a kind of multifunctional products. It can be used to convey various medium from tap water to industrial liquid at different temperature and with different flow rate and pressure.

CDL type is applicable to conveying non-corrosive liquid, while CDLT and CDLF is suitable for slightly corrosive liquid.

- Water supply: Water filter and transport in Waterworks, boosting of main pipeline, boosting in high-rise buildings.
- Industrial boosting: Process flow water system, cleaning system, high-pressure washing system, fire fighting system
- Industrial liquid conveying: Cooling and air-conditioning system, boiler water supply and condensing system, machine-associated purpose, acids and alkali
- Water treatment: Ultrafiltration system, reverse osmosis system, distillation system, separator, swimming pool
- Irrigation: Farmland irrigation, spray irrigation, dripping irrigation

Operation condition

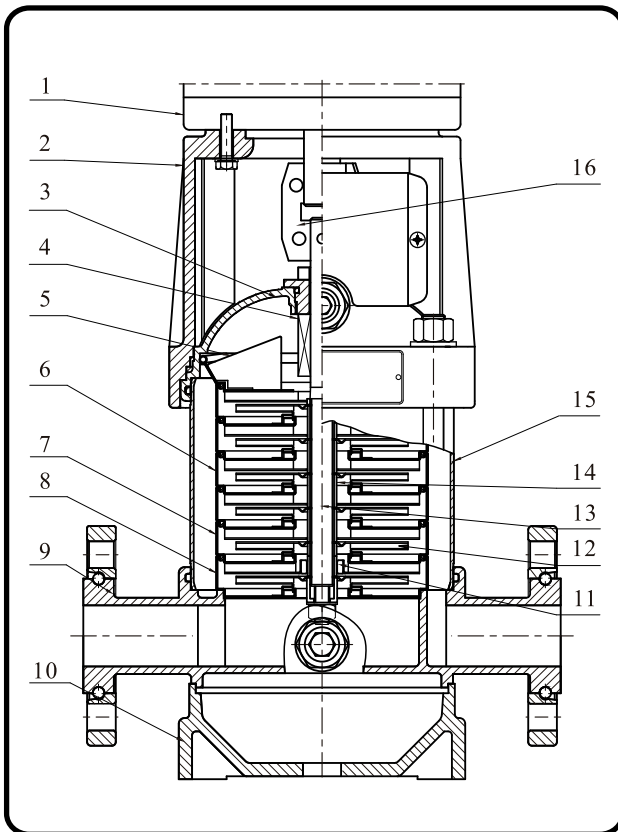
- Thin, clean, non-flammable and non-explosive liquid containing no solid granules and fibers.
- Liquid temperature:
Normal temperature type: $-15^{\circ}\text{C} \sim +70^{\circ}\text{C}$,
Hot water type: $+70^{\circ}\text{C} \sim +120^{\circ}\text{C}$
- Ambient temperature: up to $+52^{\circ}\text{C}$
- Altitude: up to 1000m

Electric motor

The pump is fitted with a totally enclosed , fan cooled squirrel-cage 2 pole motor.

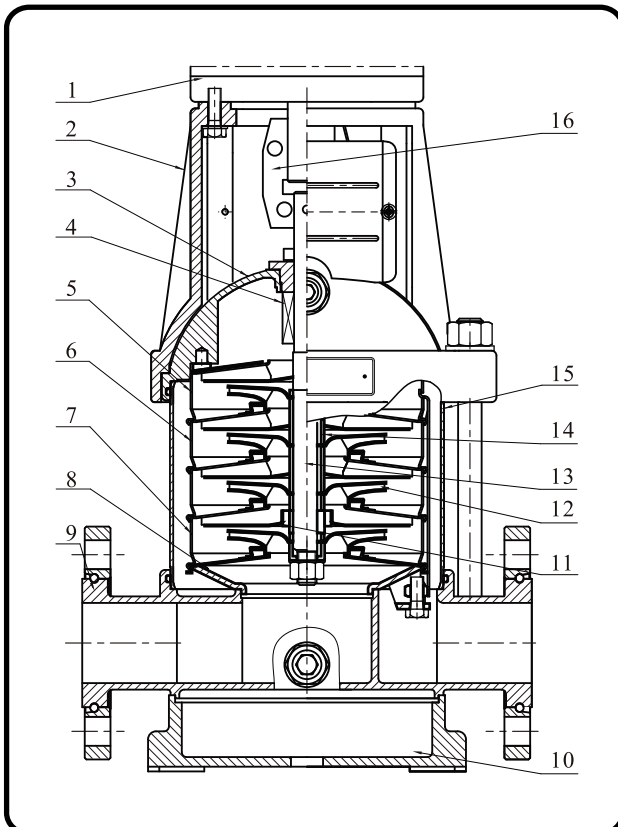
- Protection class: IP55
- Insulation class: F
- Standard voltage, 50Hz: 1x220-230/240V
3x200-220 / 346-380V
3x220-240 / 380-415V
3x380-415V

Section drawing CDL,CDLF,CDLT 1,2,3,4 and material list



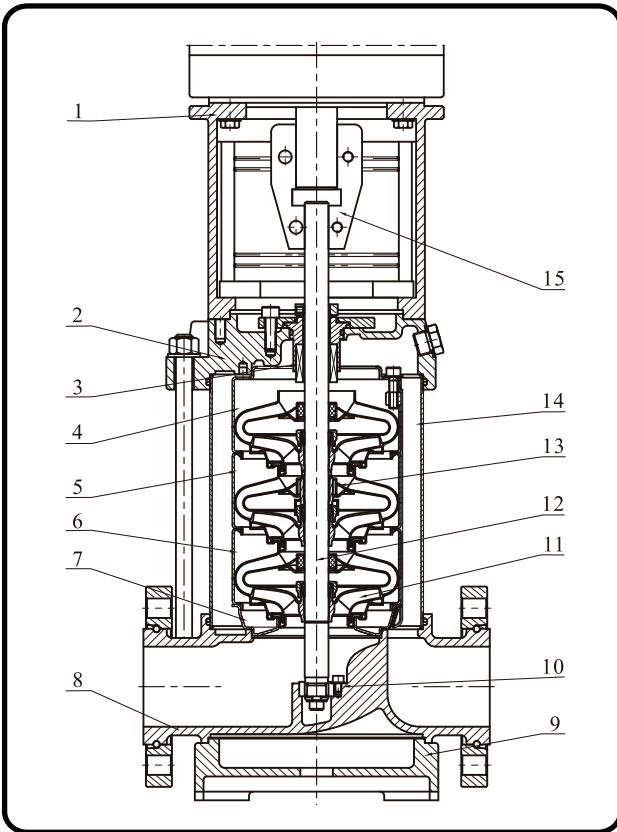
No.	Name	Material	AISI / ASTM
1	Electric motor		
2	Pump head	cast iron	ASTM25B
4	Mechanical seal		
5	Top diffuser	stainless steel	AISI 304
6	Diffuser	stainless steel	AISI 304
7	Support diffuser	stainless steel	AISI 304
8	Inducer	stainless steel	AISI 304
11	Bearing	tungsten carbide	
12	Impeller	stainless steel	AISI 304
13	Shaft	stainless steel	AISI 304 AISI 316L
14	Impeller sleeve	stainless steel	AISI 304
15	Cylinder	stainless steel	AISI 304
16	Coupling	carbon steel	
CDL			
9	Inlet and outlet chamber	cast iron	ASTM25B
CDLF			
3	Seal base	stainless steel	AISI 304
9	Inlet and outlet chamber	stainless steel	AISI 304
10	Base plate	cast iron	ASTM25B
CDLT			
3	Seal base	stainless steel	AISI 304
9	Inlet and outlet chamber	stainless steel	AISI 304
10	Base plate	cast iron	ASTM25B

Section drawing CDL,CDLF,CDLT 8, 16, 20 and material list



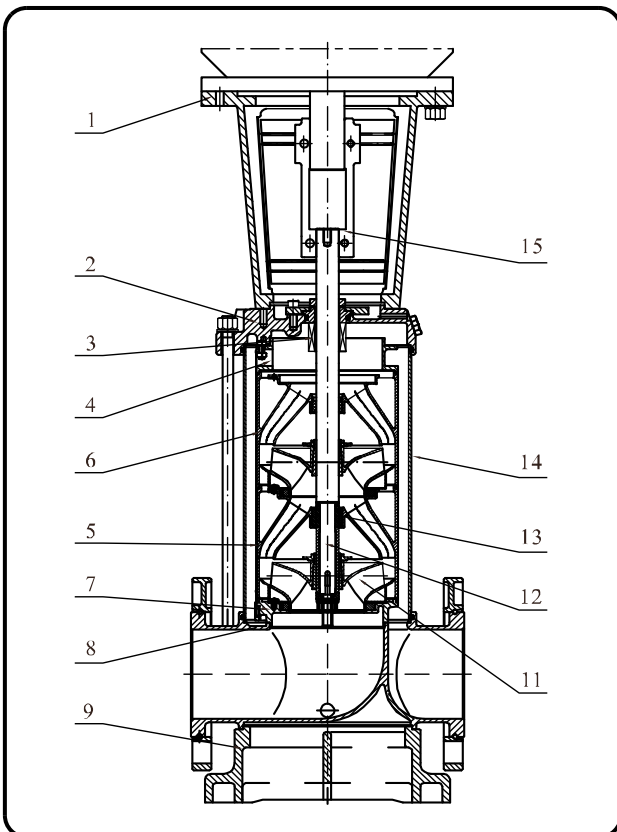
No.	Name	Material	AISI / ASTM
1	Electric motor		
2	Pump head	cast iron	ASTM25B
4	Mechanical seal		
5	Top diffuser	stainless steel	AISI 304
6	Diffuser	stainless steel	AISI 304
7	Support diffuser	stainless steel	AISI 304
8	Inducer	stainless steel	AISI 304
11	Bearing	tungsten carbide	
12	Impeller	stainless steel	AISI 304
13	Shaft	stainless steel	AISI 304 AISI 316L
14	Impeller sleeve	stainless steel	AISI 304
15	Cylinder	stainless steel	AISI 304
16	Coupling	carbon steel	
CDL			
9	Inlet and outlet chamber	cast iron	ASTM25B
CDLF			
3	Seal base	stainless steel	AISI 304
9	Inlet and outlet chamber	stainless steel	AISI 304
10	Base plate	cast iron	ASTM25B
CDLT			
3	Seal base	stainless steel	AISI 304
9	Inlet and outlet chamber	stainless steel	AISI 304
10	Base plate	cast iron	ASTM25B

Section drawing CDL,CDLF ,CDLT 32, 42, 65, 85 and material list



No.	Name	Material	AISI / ASTM
1	Bracket	cast iron	ASTM25B
2	Pump head	cast iron	ASTM25B
3	Mechanical seal		
4	Top diffuser	stainless steel	AISI 304
5	Diffuser	stainless steel	AISI 304
6	Support diffuser	stainless steel	AISI 304
7	Inducer	stainless steel	AISI 304
8	Inlet and outlet chamber	cast iron	ASTM25B
9	Base plate	cast iron	ASTM25B
10	Bottom bearing	tungsten carbide	
11	Impeller	stainless steel	AISI 304
12	Shaft	stainless steel	
13	Intermediate bearing	tungsten carbide	
14	Cylinder	stainless steel	AISI 304
15	Coupling	carbon steel	
	Rubber parts	NBR	
CDL			
	part no. 2, 8	cast iron	ASTM25B
CDLF			
	part no. 2, 8	stainless steel	AISI 304
CDLT			
	part no. 2, 8	stainless steel	AISI 304

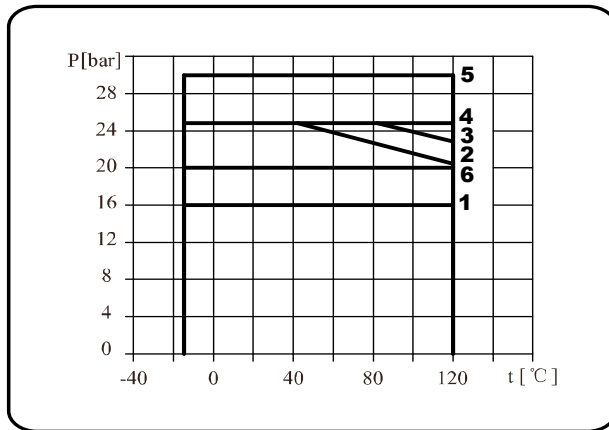
Section drawing CDL,CDLF,CDLT 120, 150, 200 and material list



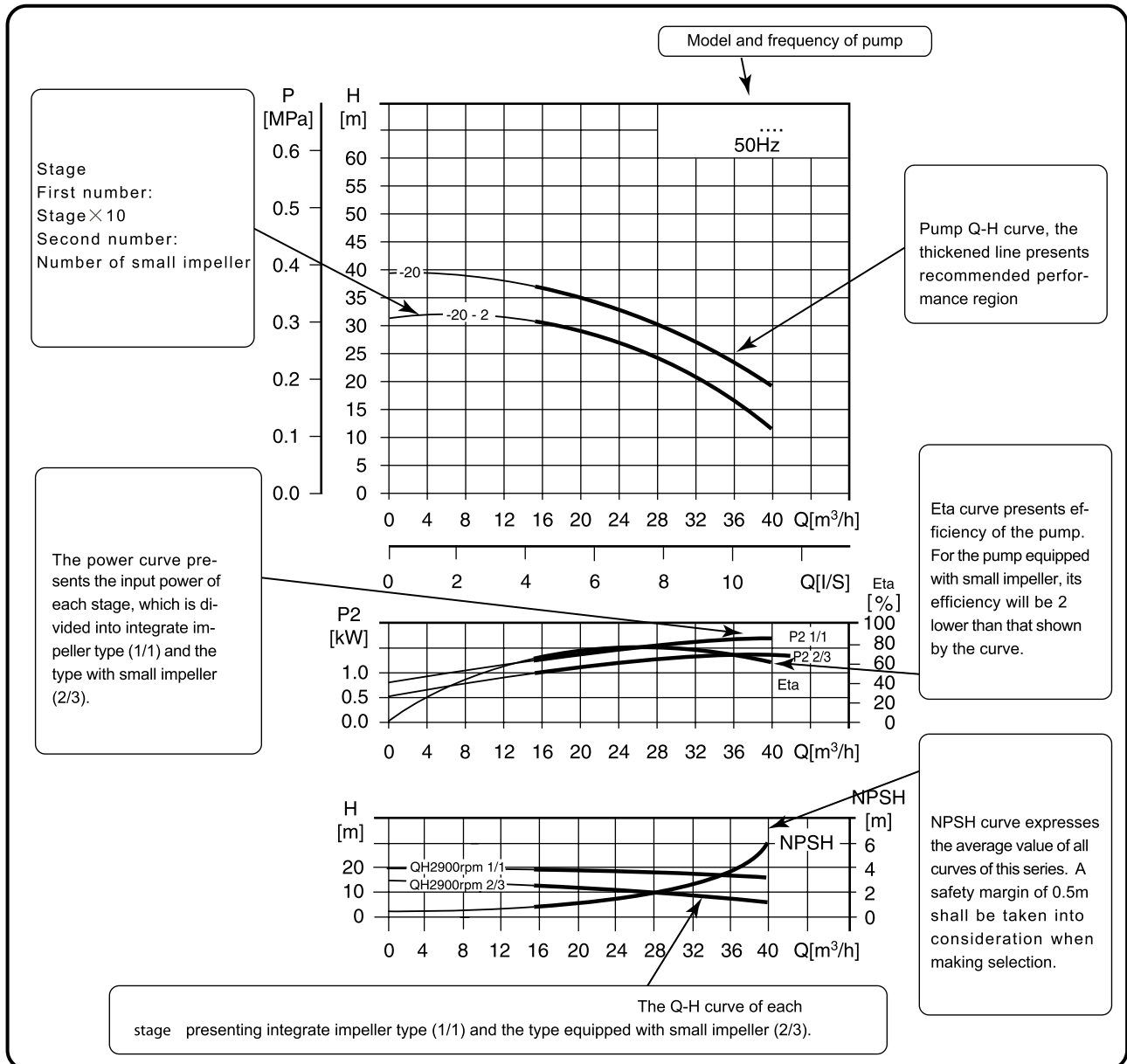
No.	Name	Material	AISI / ASTM
1	Bracket	cast iron	ASTM25B
2	Pump head	cast iron	ASTM 80-55-06
3	Mechanical seal		
4	Discharge	stainless steel	AISI 304
5	Support diffuser	stainless steel	AISI 304
6	Diffuser	stainless steel	AISI 304
7	Inducer	stainless steel	AISI 304
8	Inlet and outlet chamber	cast iron	ASTM 80-55-06
9	Base plate	cast iron	ASTM 80-55-06
11	Impeller	stainless steel	AISI 304
12	Shaft	stainless steel	AISI 304
13	Bearing	tungsten carbide	
14	Cylinder	stainless steel	AISI 304
15	Coupling	carbon steel	
	Rubber parts	NBR	
CDL			
	part no. 2, 8	cast iron	ASTM 80-55-06
CDLF			
	part no. 2, 8	stainless steel	AISI 304
CDLT			

Limitation of pressure and temperature

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



Performance Curves



Conditions for the performance curves:

1. All the performance curves are based on the measured values of a motor 3x380V ~ 415V at a constant speed of 2900 rpm.
2. Curve tolerance in conformity with ISO9906, appendix 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 flow rate or overload of motor due to too large flow rate.

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:

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

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

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

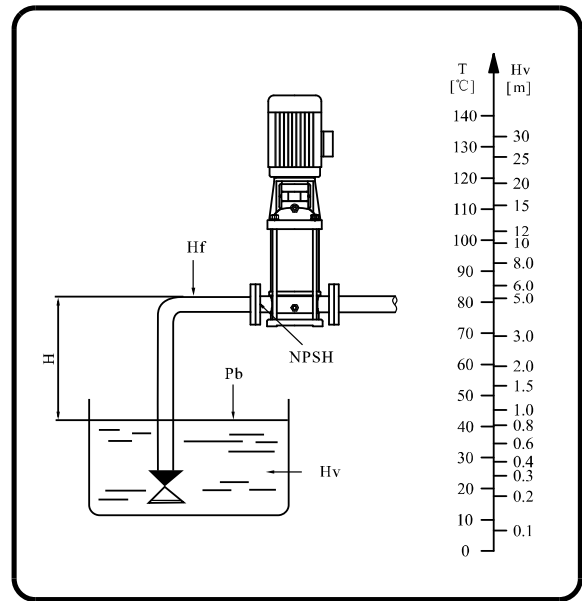
NPSH= Net positive suction head [m], It can be read out from the point of possible max. flow rate shown on NPSH curve

H_f = Pipeline loss at the inlet [m]

H_v = Steam pressure [m]

H_s = Safety margin Minimum 0.5m delivery head

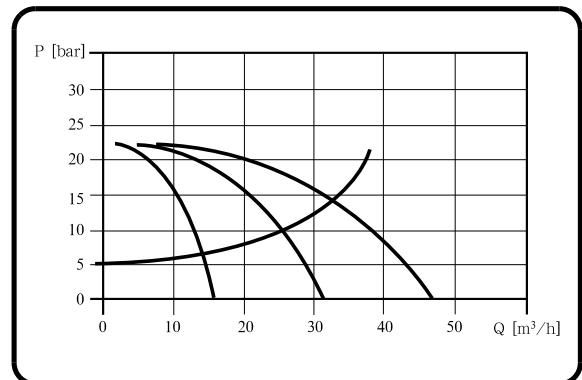
If the calculated result H is positive, the pump may run under the max. suction stroke H . In case the calculated result H is negative, a delivery head of min. inlet pressure is necessary.



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

Operation in parallel

- Connecting several pumps in a parallel running mode will benefit the reliability of the system compared to a single pump system.
- Applicable to different working states required by a variable flow system.
- Increasing the availability of water supply if a pump fails: only a part of the system flow is effected.

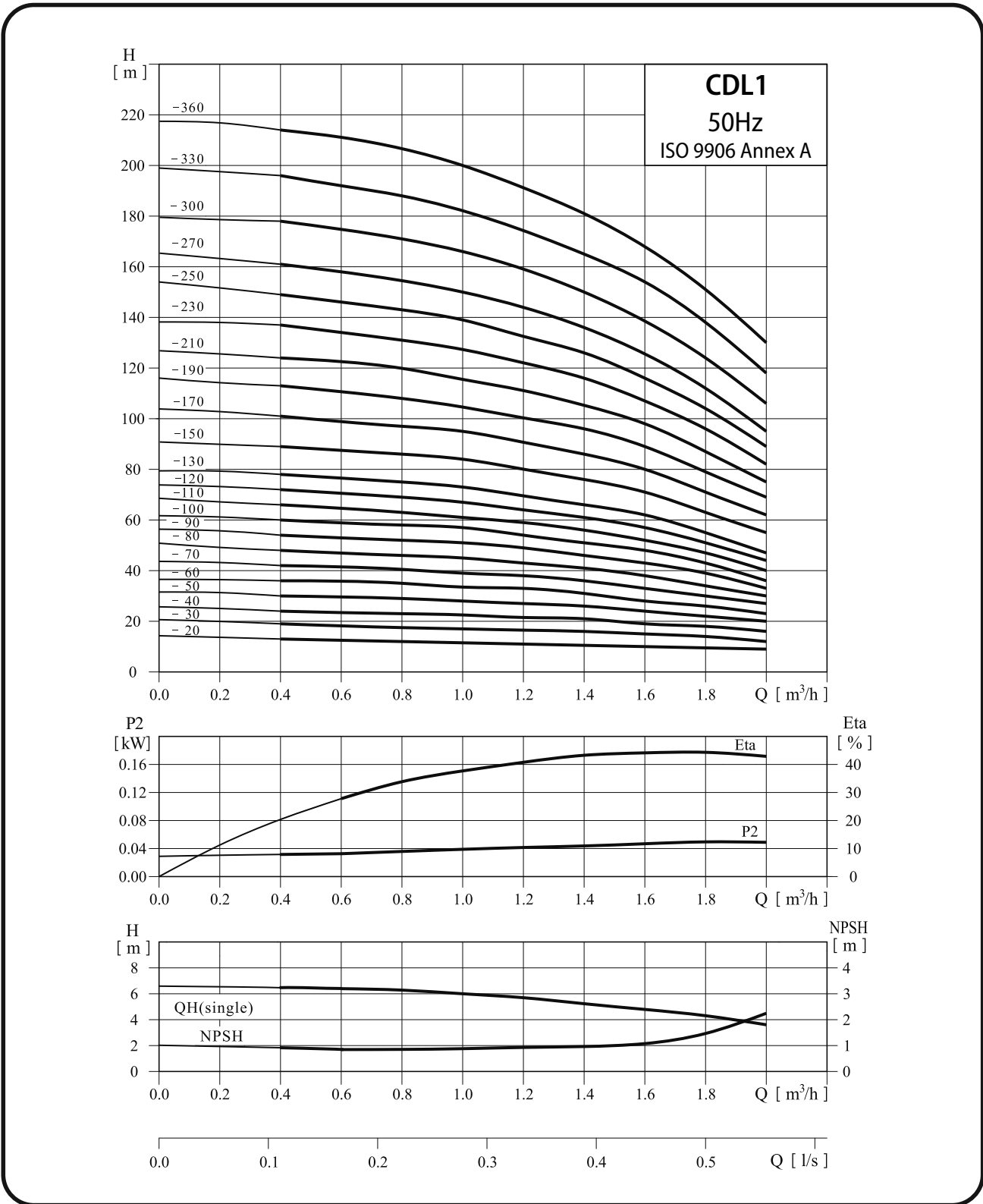


Two pumps or more can be connected in parallel running if necessary.

CDL1 /CDLF1 / CDLT1

Performance Curves

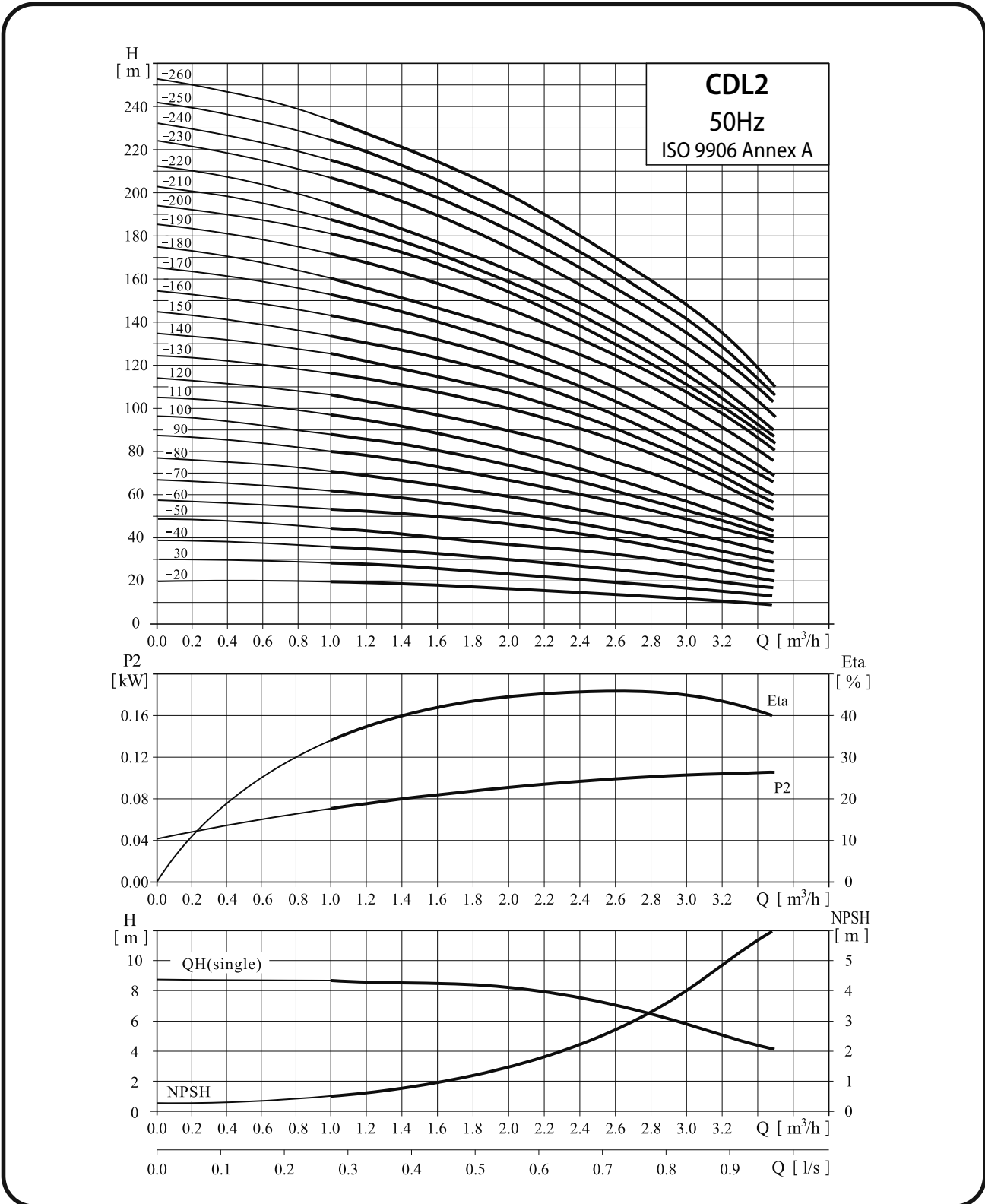
The performance curve applies to the CDL,CDLF and CDLT version of the pump.



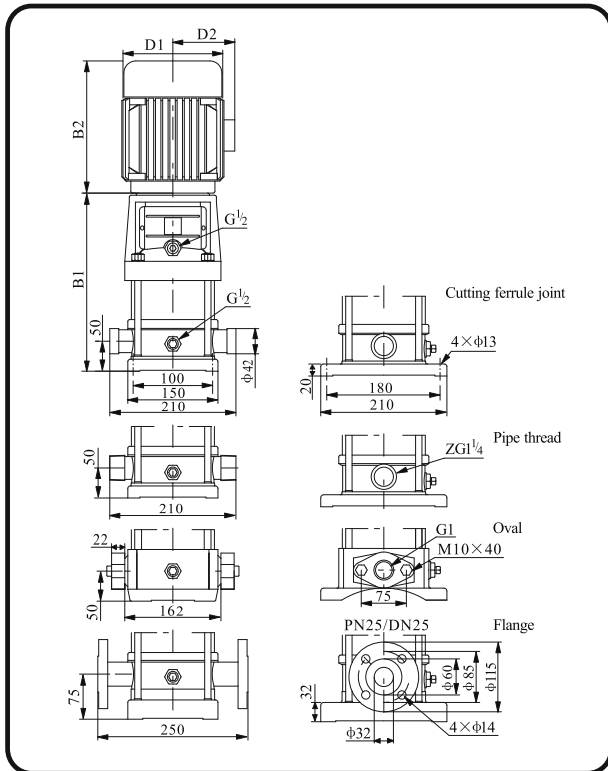
CDL2 / CDF2 / CDLT2

Performance Curves

The performance curve applies to the CDL, CDF and CDLT version of the pump.



Dimensional sketch



Dimensions and Weight

Model	Size [mm]					Weight [kg]
	B1	B2	B1+B2	D1	D2	
CDL 2-20	258	210	468	148	117	20
CDL 2-30	276	210	486	148	117	20
CDL 2-40	294	210	504	148	117	22
CDL 2-50	312	210	522	148	117	23
CDL 2-60	340	245	585	170	142	26
CDL 2-70	358	245	603	170	142	26
CDL 2-90	394	245	639	170	142	28
CDL 2-110	430	245	675	170	142	29
CDL 2-130	476	290	766	190	155	35
CDL 2-150	512	290	802	190	155	36
CDL 2-180	566	290	856	190	155	41
CDL 2-220	638	290	928	190	155	42
CDL 2-260	720	315	1035	197	165	52

Remark: The provider data in the tables and sketches apply to the CDL, CDLF and CDLT version of the pump.

Performance table

Model	Motor [kW]	Q [m ³ /h]	H [m]							
			1.0	1.2	1.6	2.0	2.4	2.8	3.2	
CDL 2-20	0.37	H [m]	18	17	16	15	13	10	10	
CDL 2-30	0.37		27	26	24	22	20	18	15	
CDL 2-40	0.55		36	35	33	30	26	24	20	
CDL 2-50	0.55		45	43	40	37	33	30	24	
CDL 2-60	0.75		53	52	50	45	40	36	30	
CDL 2-70	0.75		63	61	57	52	47	41	35	
CDL 2-90	1.1		80	78	73	67	61	54	45	
CDL 2-110	1.1		98	95	89	82	73	64	54	
CDL 2-130	1.5		116	114	106	98	89	78	65	
CDL 2-150	1.5		134	130	123	112	100	90	73	
CDL 2-180	2.2		161	157	148	136	121	108	91	
CDL 2-220	2.2		197	192	180	165	148	130	110	
CDL 2-260	3.0		232	228	214	198	179	158	130	

CDL 2-180 ~ 2-260 sub-connection of pipeline without oval flange.

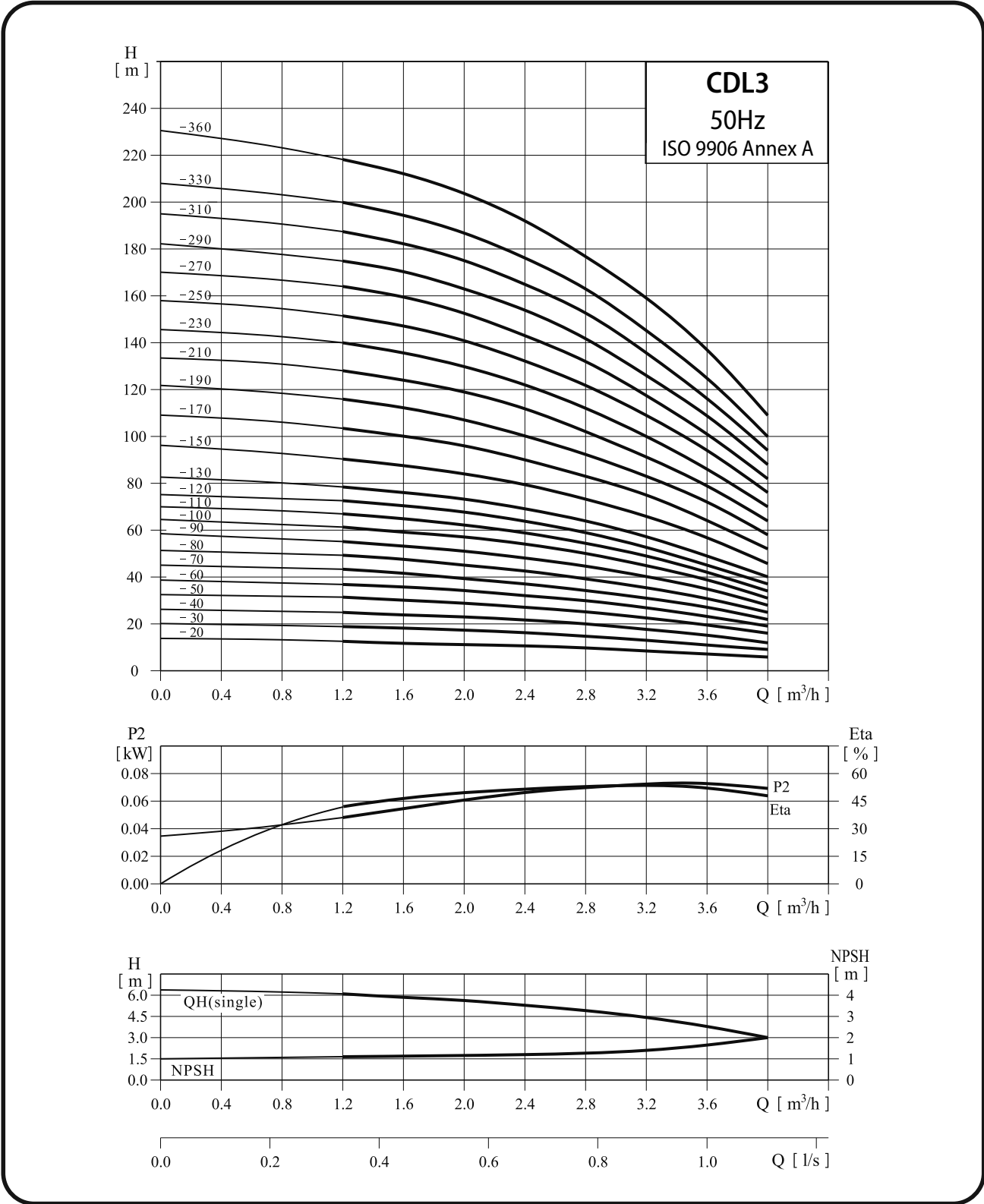
Electrical data 3x380-415V

Model	Motor [kW]	A	Cos Φ	η(%)
CDL 2-20	0.37	0.98-0.88	0.81	70
CDL 2-30	0.37	0.98-0.88	0.81	70
CDL 2-40	0.55	1.3-1.2	0.82	73
CDL 2-50	0.55	1.3-1.2	0.82	73
CDL 2-60	0.75	1.7-1.5	0.83	75
CDL 2-70	0.75	1.7-1.5	0.83	75
CDL 2-90	1.1	2.6-2.4	0.84	77
CDL 2-110	1.1	3.3-3	0.84	77
CDL 2-130	1.5	3.3-3	0.84	79
CDL 2-150	1.5	4-3.3	0.84	79
CDL 2-180	2.2	4.9-4.5	0.85	81
CDL 2-220	2.2	5.7-5.3	0.85	81
CDL 2-260	3.0	6.1-5.5	0.87	83

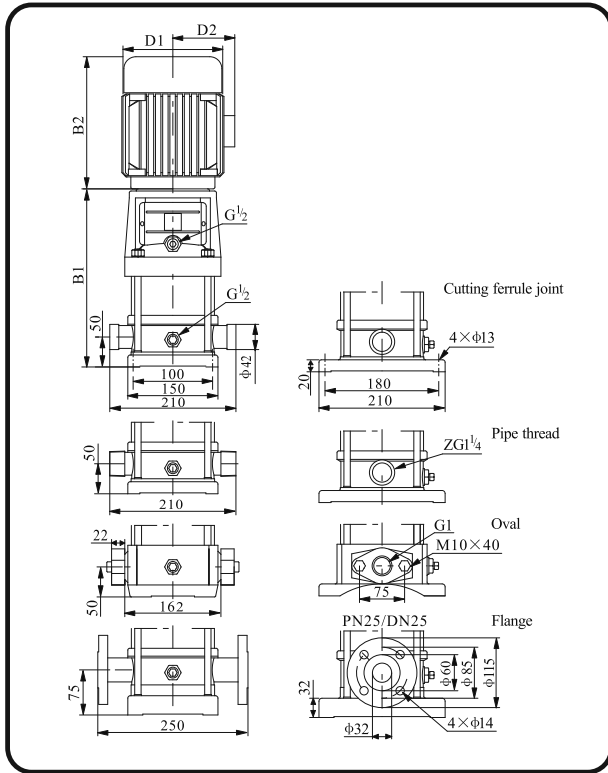
CDL3 / CDLF3 / CDLT3

Performance Curves

The performance curve applies to the CDL,CDLF and CDLT version of the pump.



Dimensional sketch



Dimensions and Weight

Model	Size [mm]					Weight [kg]
	B1	B2	B1+B2	D1	D2	
CDL 3-20	258	210	468	148	117	20
CDL 3-30	276	210	486	148	117	20
CDL 3-40	294	210	504	148	117	21
CDL 3-50	312	210	522	148	117	21
CDL 3-60	330	210	540	148	117	23
CDL 3-70	348	210	558	148	117	24
CDL 3-80	376	245	621	170	142	27
CDL 3-90	394	245	639	170	142	28
CDL 3-100	412	245	657	170	142	28
CDL 3-110	430	245	675	170	142	29
CDL 3-120	448	245	693	170	142	30
CDL 3-130	466	245	711	170	142	31
CDL 3-150	502	245	747	170	142	32
CDL 3-170	548	290	838	190	155	38
CDL 3-190	584	290	874	190	155	39
CDL 3-210	620	290	910	190	155	42
CDL 3-230	656	290	946	190	155	43
CDL 3-250	692	290	982	190	155	44
CDL 3-270	728	290	1018	190	155	45
CDL 3-290	764	290	1054	190	155	46
CDL 3-310	810	315	1125	197	165	54
CDL 3-330	846	315	1161	197	165	55
CDL 3-360	900	315	1215	197	165	57

Remark: The provider data in the tables and sketches apply to the CDL,CDLF and CDLT version of the pump.

Performance table

Model	Motor [kW]	Q [m ³ /h]	H [m]						
			1.2	1.6	2.0	2.4	2.8	3.2	3.6
CDL 3-20	0.37		12.5	11.5	11	10.5	10	8	7
CDL 3-30	0.37		19	18.5	17.5	16.5	15	13	11
CDL 3-40	0.37		25	24	23	21.5	20	18	15
CDL 3-50	0.37		31	30	29	27	25	22	19
CDL 3-60	0.55		36	35	34	32	30	27	23
CDL 3-70	0.55		43	41	39	37	34	31	27
CDL 3-80	0.75		49	47	45	43	39	35	31
CDL 3-90	0.75		55	53	51	48	45	40	35
CDL 3-100	0.75		61	59	57	54	50	45	39
CDL 3-110	1.1		67	64	61	58	54	49	42
CDL 3-120	1.1		73	70	67	63	58	52	45
CDL 3-130	1.1		78	76	73	69	64	57	49
CDL 3-150	1.1		90	88	84	79	73	66	57
CDL 3-170	1.5		103	100	96	90	83	75	64
CDL 3-190	1.5		115	112	107	100	92	83	72
CDL 3-210	2.2		128	124	119	112	102	91	79
CDL 3-230	2.2		140	135	130	122	112	100	86
CDL 3-250	2.2		151	147	141	131	122	109	94
CDL 3-270	2.2		164	159	152	143	132	117	101
CDL 3-290	2.2		175	170	163	153	142	126	109
CDL 3-310	3.0		187	182	175	165	153	135	116
CDL 3-330	3.0		199	194	187	176	163	145	125
CDL 3-360	3.0		218	212	204	192	178	159	137

CDL 3-250 ~ 3-360 sub-connection of pipeline without oval flange.

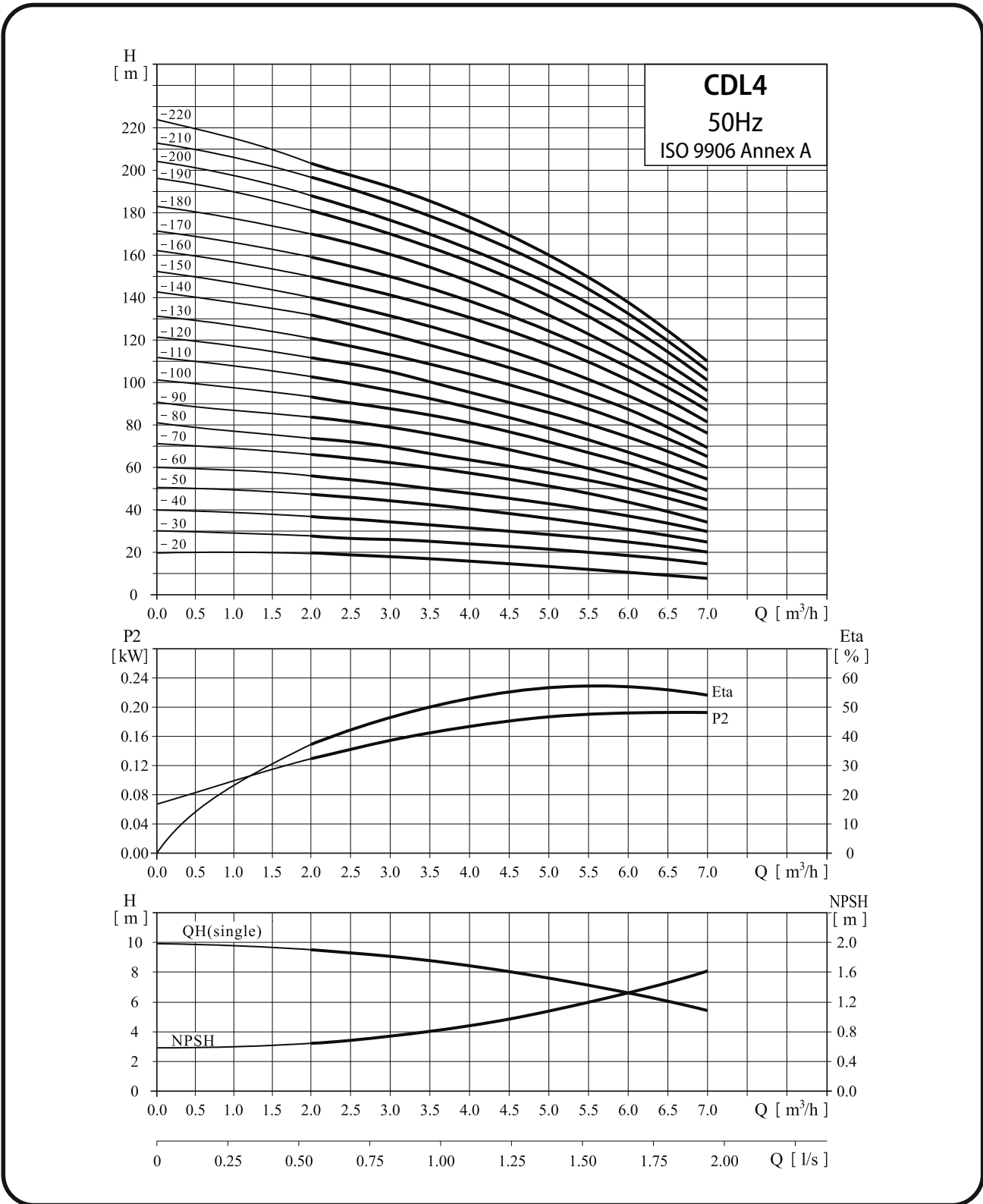
Electrical data 3x380-415V

Model	Motor [kW]	A	Cos Φ	η(%)
CDL 3-20	0.37	0.98-0.88	0.81	70
CDL 3-30	0.37	0.98-0.88	0.81	70
CDL 3-40	0.37	0.98-0.88	0.81	70
CDL 3-50	0.37	0.98-0.88	0.81	70
CDL 3-60	0.55	1.3-1.2	0.82	73
CDL 3-70	0.55	1.3-1.2	0.82	73
CDL 3-80	0.75	1.7-1.5	0.83	75
CDL 3-90	0.75	1.7-1.5	0.83	75
CDL 3-100	0.75	1.7-1.5	0.83	75
CDL 3-110	1.1	2.6-2.4	0.84	77
CDL 3-120	1.1	2.6-2.4	0.84	77
CDL 3-130	1.1	2.6-2.4	0.84	77
CDL 3-150	1.1	3.3-3	0.84	77
CDL 3-170	1.5	3.3-3	0.84	79
CDL 3-190	1.5	4-3.6	0.84	79
CDL 3-210	2.2	4.9-4.5	0.85	81
CDL 3-230	2.2	4.9-4.5	0.85	81
CDL 3-250	2.2	4.9-4.5	0.85	81
CDL 3-270	2.2	5.7-5.3	0.85	81
CDL 3-290	2.2	5.7-5.3	0.85	81
CDL 3-310	3.0	6.1-5.5	0.87	83
CDL 3-330	3.0	6.1-5.5	0.87	83
CDL 3-360	3.0	6.1-5.5	0.87	83

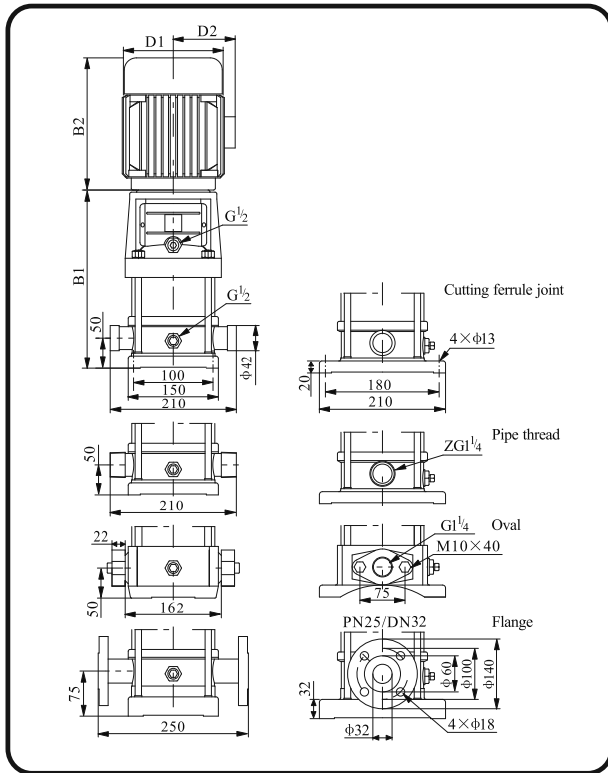
CDL4 / CDLF4 / CDLT4

Performance Curves

The performance curve applies to the CDL,CDLF and CDLT version of the pump.



Dimensional sketch



Dimensions and Weight

Model	Size [mm]					Weight [kg]
	B1	B2	B1+B2	D1	D2	
CDL 4-20	276	210	486	148	117	21
CDL 4-30	303	210	513	148	117	22
CDL 4-40	340	245	585	170	142	25
CDL 4-50	367	245	612	170	142	27
CDL 4-60	394	245	639	170	142	27
CDL 4-70	431	290	721	190	155	33
CDL 4-80	458	290	748	190	155	33
CDL 4-100	512	290	802	190	155	37
CDL 4-120	566	290	856	190	155	38
CDL 4-140	630	315	945	197	165	46
CDL 4-160	684	315	999	197	165	48
CDL 4-190	765	335	1100	230	188	57
CDL 4-220	846	335	1181	230	188	59

Remark: The provider data in the tables and sketches apply to the CDL, CDLF and CDLT version of the pump.

Performance table

Model	Motor [kW]	Q [m ³ /h]	H [m]					
			1.5	2.0	3.0	4.0	5.0	6.0
CDL4-20	0.37	H [m]	19	18	17	15	13	10
CDL4-30	0.55		28	27	26	24	20	18
CDL4-40	0.75		38	36	34	32	27	24
CDL4-50	1.1		47	45	43	40	34	31
CDL4-60	1.1		56	54	52	48	41	37
CDL4-70	1.5		66	63	61	56	48	43
CDL4-80	1.5		74	72	70	64	55	50
CDL4-100	2.2		96	90	87	81	71	62
CDL4-120	2.2		114	108	104	95	85	75
CDL4-140	3.0		136	126	122	112	101	89
CDL4-160	3.0		152	144	140	129	115	101
CDL4-190	4.0		183	171	168	153	137	122
CDL4-220	4.0		211	200	192	178	160	138

CDL 4-190 ~ 4-220 sub-connection of pipeline without oval flange.

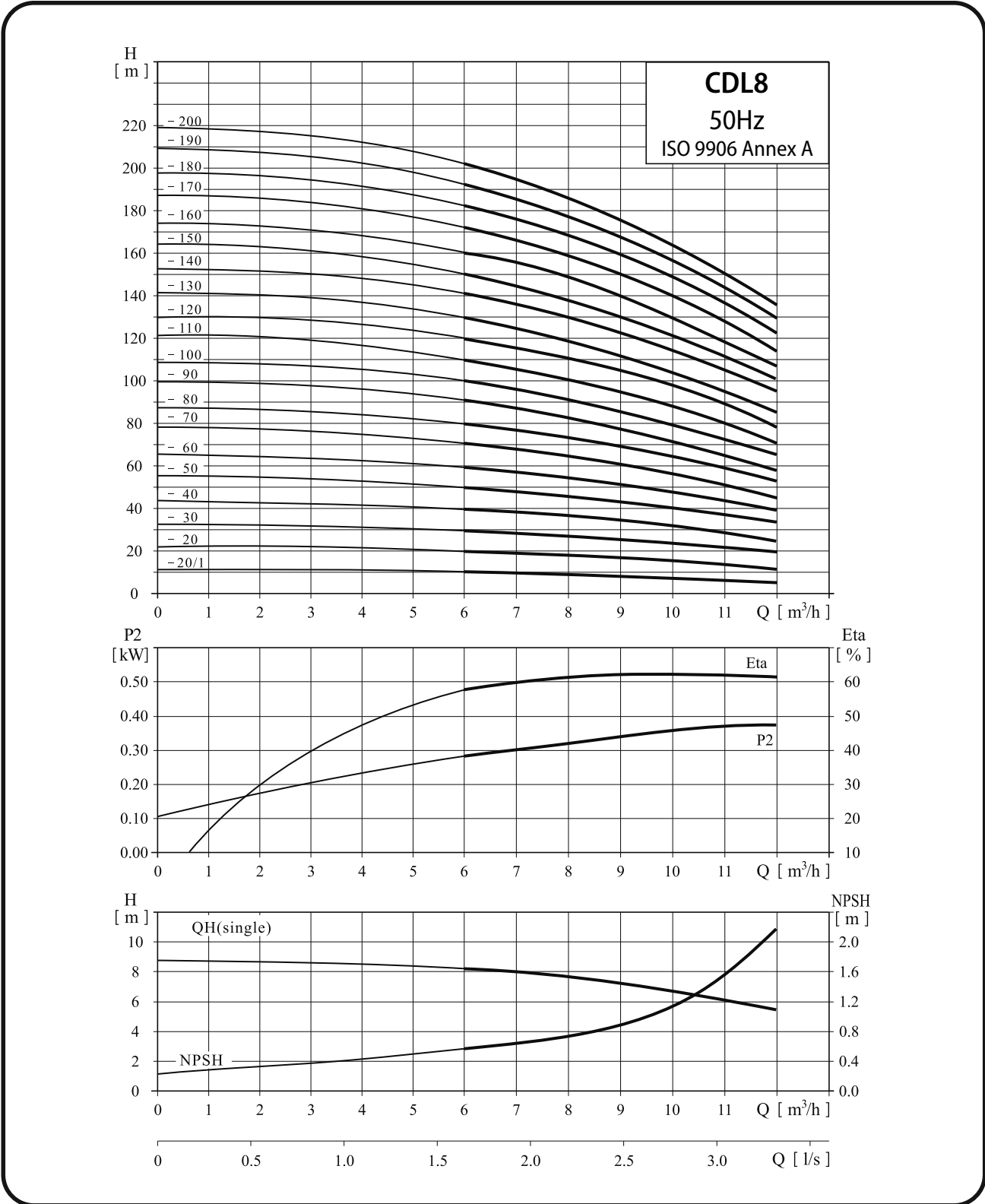
Electrical data 3x380-415V

Model	Motor [kW]	A	Cos Φ	η(%)
CDL 4-20	0.37	0.98-0.88	0.81	70
CDL 4-30	0.55	1.3-1.2	0.82	73
CDL 4-40	0.75	1.7-1.5	0.83	75
CDL 4-50	1.1	2.6-2.4	0.84	77
CDL 4-60	1.1	2.6-2.4	0.84	77
CDL 4-70	1.5	3.3-3	0.84	79
CDL 4-80	1.5	3.3-3	0.84	79
CDL 4-100	2.2	4.9-4.5	0.85	81
CDL 4-120	2.2	5.7-5.3	0.85	81
CDL 4-140	3.0	6.1-5.5	0.87	83
CDL 4-160	3.0	6.1-5.5	0.87	83
CDL 4-190	4.0	8-7.2	0.88	85
CDL 4-220	4.0	9-8.1	0.88	85

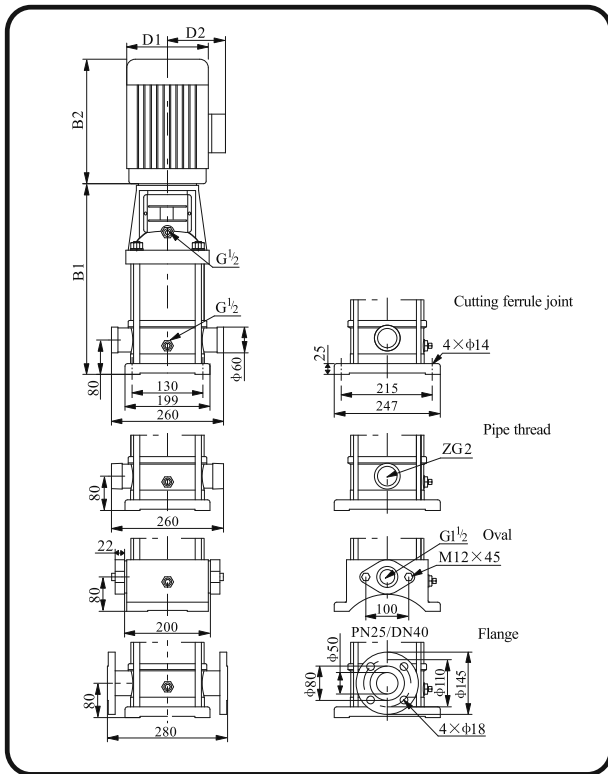
CDL8 / CDLF8 / CDLT8

Performance Curves

The performance curve applies to the CDL,CDLF and CDLT version of the pump.



Dimensional sketch



Dimensions and Weight

Model	Size [mm]					Weight [kg]
	B1	B2	B1+B2	D1	D2	
CDL 8-20-1	347	245	592	170	142	32
CDL 8-20	347	245	592	170	142	32
CDL 8-30	377	245	622	170	142	34
CDL 8-40	417	290	707	190	155	40
CDL 8-50	447	290	737	190	155	44
CDL 8-60	477	290	767	190	155	45
CDL 8-80	547	315	862	197	165	53
CDL 8-100	607	335	942	230	188	64
CDL 8-120	667	335	1002	230	188	66
CDL 8-140	747	430	1177	260	208	81
CDL 8-160	807	430	1237	260	208	84
CDL 8-180	867	430	1297	260	208	93
CDL 8-200	927	430	1357	260	208	94

Remark: The provider data in the tables and sketches apply to the CDL, CDLF and CDLT version of the pump.

Performance table

Model	Motor [kW]	Q [m ³ /h]	H [m]						
			5	6	7	8	9	10	11
CDL 8-20/1	0.75	H [m]	10	9.5	9.3	9	8.5	8	7
CDL 8-20	0.75		20	19.5	19	18	17	15	14
CDL 8-30	1.1		30	29.5	28.5	27	25	24	21
CDL 8-40	1.5		41	39.5	38	36	34	32	28
CDL 8-50	2.2		52	50	48	45	42	40	36
CDL 8-60	2.2		62	60	57	54	51	48	43
CDL 8-80	3.0		83	80	77	73	69	65	58
CDL 8-100	4.0		104	100	97	92	87	81	73
CDL 8-120	4.0		124	120	116	111	104	92	87
CDL 8-140	5.5		145	141	136	130	122	113	102
CDL 8-160	5.5		166	161	156	148	139	130	118
CDL 8-180	7.5		187	182	175	167	157	146	134
CDL 8-200	7.5		208	202	195	186	175	163	150

CDL 8-140 ~ 8-200 sub-connection of pipeline without oval flange.

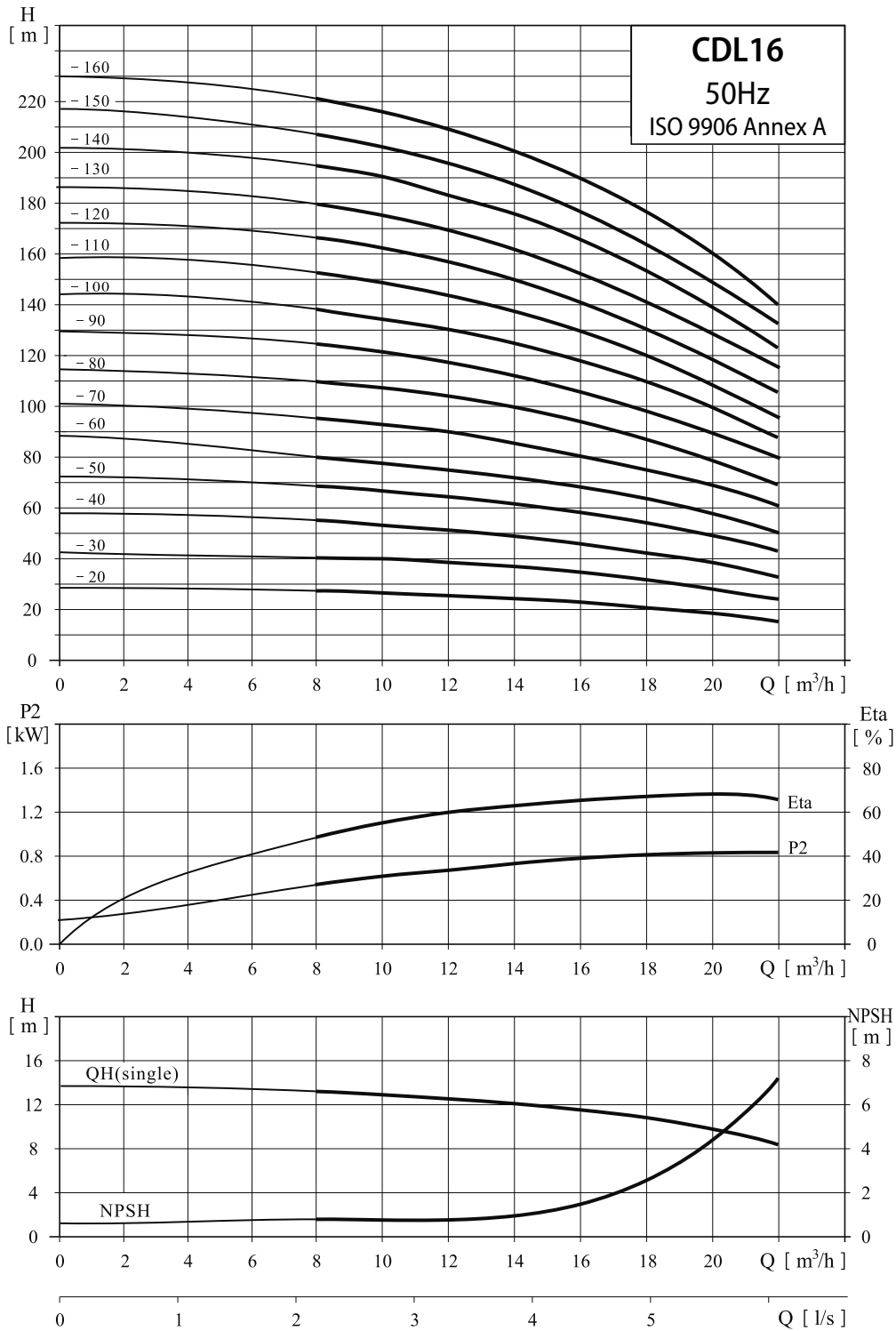
Electrical data 3x380-415V

Model	Motor [kW]	A	Cos Φ	η(%)
CDL 8-20-1	0.75	1.7-1.5	0.83	75
CDL 8-20	0.75	1.7-1.5	0.83	75
CDL 8-30	1.1	2.6-2.4	0.84	77
CDL 8-40	1.5	3.3-3	0.84	79
CDL 8-50	2.2	4.9-4.5	0.85	81
CDL 8-60	2.2	4.9-4.5	0.85	81
CDL 8-80	3.0	6.1-5.5	0.87	83
CDL 8-100	4.0	8-7.2	0.88	85
CDL 8-120	4.0	9-8.1	0.88	85
CDL 8-140	5.5	10.8-9.7	0.88	86
CDL 8-160	5.5	10.8-9.7	0.88	86
CDL 8-180	7.5	14.9-13.8	0.88	87
CDL 8-200	7.5	14.9-13.8	0.88	87

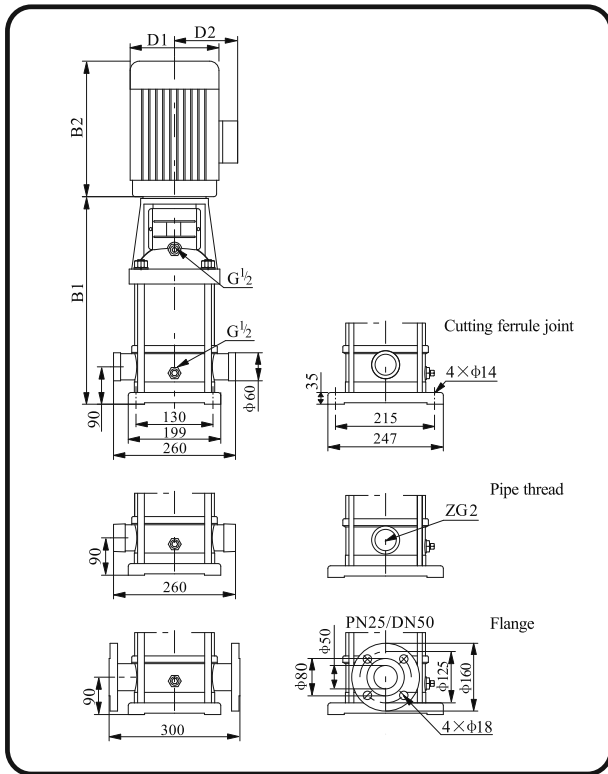
CDL16 / CDLF16 / CDLT16

Performance Curves

The performance curve applies to the CDL,CDLF and CDLT version of the pump.



Dimensional sketch



Dimensions and Weight

Model	Size [mm]					Weight [kg]
	B1	B2	B1+B2	D1	D2	
CDL 16-20	397	290	687	190	155	42
CDL 16-30	452	315	767	197	165	50
CDL 16-40	497	335	832	230	188	59
CDL 16-50	562	430	992	260	208	76
CDL 16-60	607	430	1037	260	208	77
CDL 16-70	652	430	1082	260	208	84
CDL 16-80	697	430	1127	260	208	86
CDL 16-100	875	490	1365	330	255	158
CDL 16-120	965	490	1455	330	255	161
CDL 16-140	1055	490	1545	330	255	174
CDL 16-160	1145	490	1635	330	255	178

Remark: The provider data in the tables and sketches apply to the CDL,CDLF and CDLT version of the pump.

Performance table

Model	Motor [kW]	Q [m ³ /h]	H [m]							
			8	10	12	14	16	18	20	
CDL 16-20	2.2	H [m]	27	26	25	24	22	21	19	
CDL 16-30	3.0		41	40	38	37	34	32	29	
CDL 16-40	4.0		54	53	52	49	46	43	38	
CDL 16-50	5.5		68	67	65	62	58	54	48	
CDL 16-60	5.5		82	80	78	74	70	64	58	
CDL 16-70	7.5		96	95	91	87	82	76	68	
CDL 16-80	7.5		110	108	104	99	94	86	77	
CDL 16-100	11		138	136	131	125	118	109	97	
CDL 16-120	11		166	162	157	150	141	130	116	
CDL 16-140	15		194	190	184	175	166	152	136	
CDL 16-160	15		222	217	210	200	189	174	156	

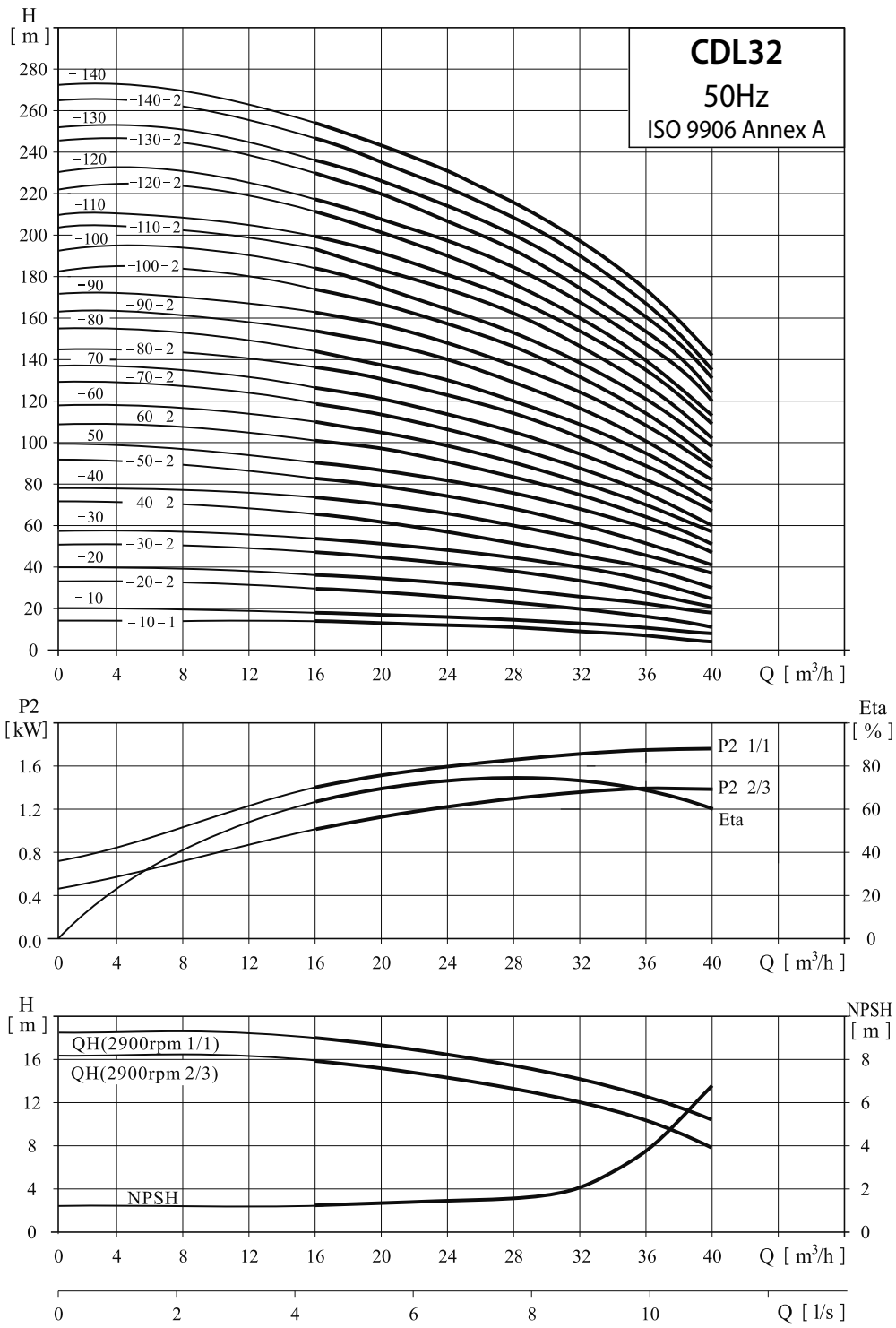
Electrical data 3x380-415V

Model	Motor [kW]	A	Cos Φ	η(%)
CDL 16-20	2.2	4.9-4.5	0.85	81
CDL 16-30	3.0	6.1-5.5	0.87	83
CDL 16-40	4.0	8-7.2	0.88	85
CDL 16-50	5.5	10.8-9.7	0.88	86
CDL 16-60	5.5	10.8-9.7	0.88	86
CDL 16-70	7.5	14.9-13.8	0.88	87
CDL 16-80	7.5	14.9-13.8	0.88	87
CDL 16-100	11	20.9-18.8	0.89	88
CDL 16-120	11	20.9-18.8	0.89	88
CDL 16-140	15	27.9-25.1	0.89	89
CDL 16-160	15	27.9-25.1	0.89	89

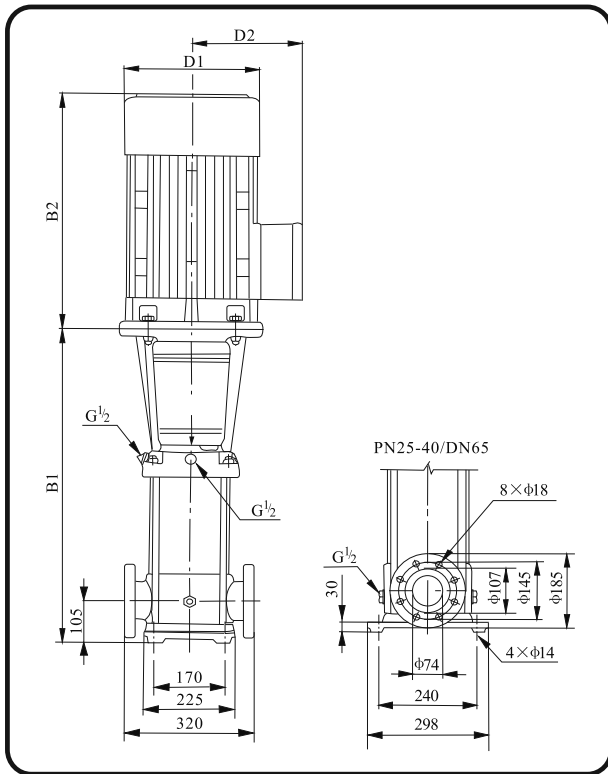
CDL32 / CDLF32 / CDLT32

Performance Curves

The performance curve applies to the CDL,CDLF and CDLT version of the pump.



Dimensional sketch



Dimensions and Weight

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

Remark: The provider data in the tables and sketches apply to the CDL, CDLF and CDLT version of the pump.

Performance table

Model	Motor [kW]	Q [m ³ /h]	H [m]						
			16	20	24	28	32	36	
CDL32-10-1	1.5	H [m]	14	13	12	11	9	7	
CDL32-10	2.2		18	17	15	14	13	11	
CDL32-20-2	3.0		29	28	26	23	20	16	
CDL32-20	4.0		36	34	32	29	27	23	
CDL32-30-2	5.5		47	44	41	38	33	28	
CDL32-30	5.5		54	51	48	44	40	35	
CDL32-40-2	7.5		65	62	58	53	46	40	
CDL32-40	7.5		72	69	65	59	53	47	
CDL32-50-2	11		83	79	74	68	60	52	
CDL32-50	11		90	86	81	74	67	59	
CDL32-60-2	11		101	97	90	83	74	65	
CDL32-60	11		108	104	97	90	81	72	
CDL32-70-2	15		119	114	107	98	88	78	
CDL32-70	15		126	121	113	105	95	85	
CDL32-80-2	15		136	131	123	114	102	90	
CDL32-80	15		144	138	130	120	109	97	
CDL32-90-2	18.5		154	148	140	129	117	102	
CDL32-90	18.5		162	156	147	136	124	109	
CDL32-100-2	18.5		175	166	157	146	131	115	
CDL32-100	18.5		182	173	164	152	138	122	
CDL32-110-2	22	193	184	173	164	146	128		
CDL32-110	22	200	191	180	168	153	135		
CDL32-120-2	22	211	201	189	178	160	140		
CDL32-120	22	218	208	196	184	167	147		
CDL32-130-2	30	230	218	206	193	174	153		
CDL32-130	30	237	225	213	200	181	160		
CDL32-140-2	30	247	235	222	210	189	165		
CDL32-140	30	255	242	229	216	196	172		

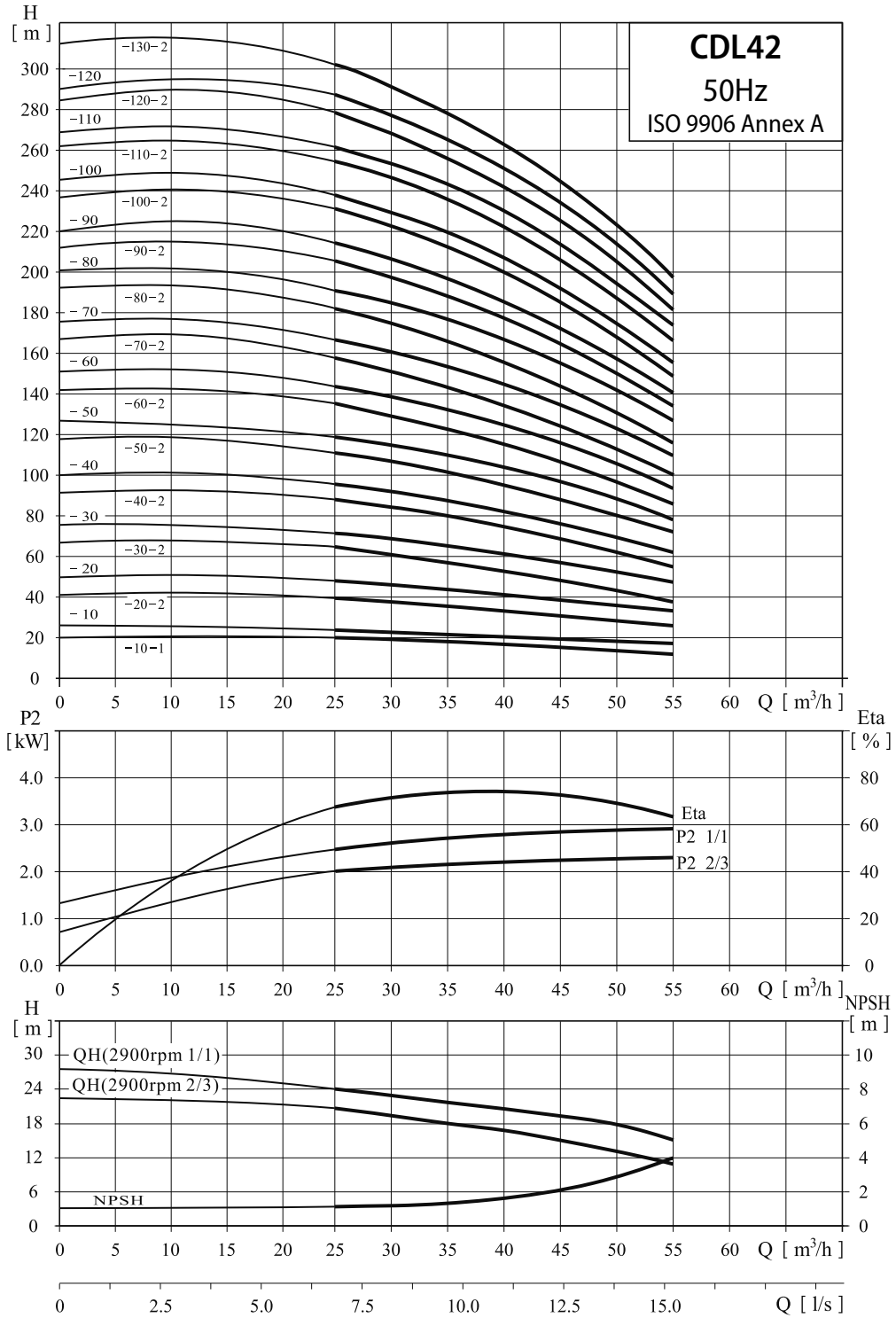
Electrical data 3x380-415V

Model	Motor [kW]	A	Cos Φ	η(%)
CDL 32-10-1	1.5	3.3-3	0.84	79
CDL 32-10	2.2	4.9-4.5	0.85	81
CDL 32-20-2	3.0	6.1-5.5	0.87	83
CDL 32-20	4.0	8-7.2	0.88	85
CDL 32-30-2	5.5	10.8-9.7	0.88	86
CDL 32-30	5.5	10.8-9.7	0.88	86
CDL 32-40-2	7.5	14.9-13.8	0.88	87
CDL 32-40	7.5	14.9-13.8	0.88	87
CDL 32-50-2	11	20.9-18.8	0.89	88
CDL 32-50	11	20.9-18.8	0.89	88
CDL 32-60-2	11	20.9-18.8	0.89	88
CDL 32-60	11	20.9-18.8	0.89	88
CDL 32-70-2	15	27.9-25.1	0.89	89
CDL 32-70	15	27.9-25.1	0.89	89
CDL 32-80-2	15	27.9-25.1	0.89	89
CDL 32-80	15	27.9-25.1	0.89	89
CDL 32-90-2	18.5	33.9-30.5	0.9	90
CDL 32-90	18.5	33.9-30.5	0.9	90
CDL 32-100-2	18.5	33.9-30.5	0.9	90
CDL 32-100	18.5	33.9-30.5	0.9	90
CDL 32-110-2	22	41.5-37.4	0.9	90
CDL 32-110	22	41.5-37.4	0.9	90
CDL 32-120-2	22	41.5-37.4	0.9	90
CDL 32-120	22	41.5-37.4	0.9	90
CDL 32-130-2	30	56.5-51.7	0.9	91.2
CDL 32-130	30	56.5-51.7	0.9	91.2
CDL 32-140-2	30	56.5-51.7	0.9	91.2
CDL 32-140	30	56.5-51.7	0.9	91.2

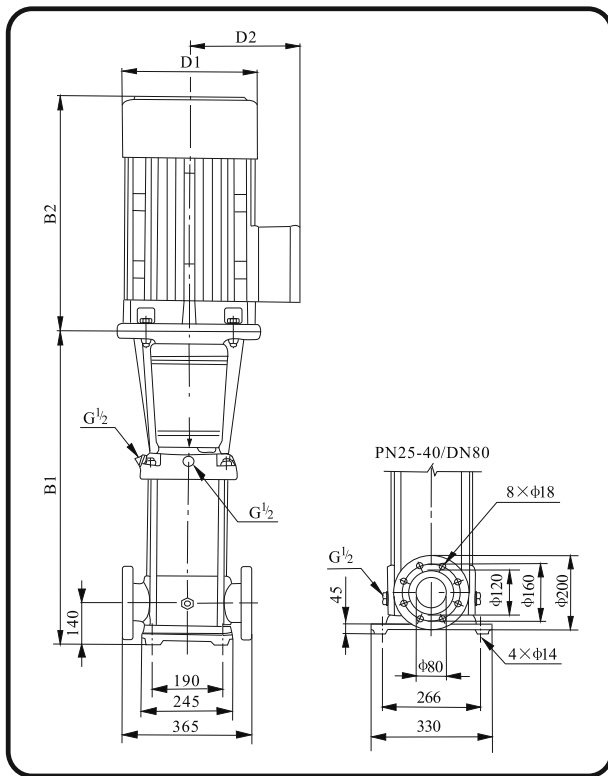
CDL42 / CDLF42 / CDLT42

Performance Curves

The performance curve applies to the CDL,CDLF and CDLT version of the pump.



Dimensional sketch



Dimensions and Weight

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

Remark: The provider data in the tables and sketches apply to the CDL, CDLF and CDLT version of the pump.

Performance table

Model	Motor [kW]	Q [m ³ /h]	H [m]						
			25	30	35	40	45	50	
CDL42-10-1	3.0	H [m]	20	19	18	17	15	13	
CDL42-10	4.0		24	23	22	21	19	18	
CDL42-20-2	5.5		40	38	36	33	30	27	
CDL42-20	7.5		48	46	44	42	39	35	
CDL42-30-2	11		63	61	58	54	50	44	
CDL42-30	11		71	69	66	63	58	53	
CDL42-40-2	15		87	84	80	77	69	62	
CDL42-40	15		95	92	88	84	78	71	
CDL42-50-2	18.5		111	107	102	96	88	80	
CDL42-50	18.5		119	115	110	105	97	88	
CDL42-60-2	22		135	130	124	117	108	97	
CDL42-60	22		143	138	132	125	116	106	
CDL42-70-2	30		158	152	146	138	127	115	
CDL42-70	30		165	161	154	146	135	124	
CDL42-80-2	30		182	175	168	159	146	133	
CDL42-80	30		190	184	176	167	154	141	
CDL42-90-2	30		205	198	190	180	165	150	
CDL42-90	37		214	207	198	188	174	159	
CDL42-100-2	37		230	221	212	200	185	168	
CDL42-100	37		238	230	220	209	193	177	
CDL42-110-2	45	255	246	236	223	206	188		
CDL42-110	45	263	255	244	232	214	196		
CDL42-120-2	45	280	270	259	245	226	206		
CDL42-120	45	289	280	268	255	236	216		
CDL42-130-2	45	305	294	282	267	247	225		

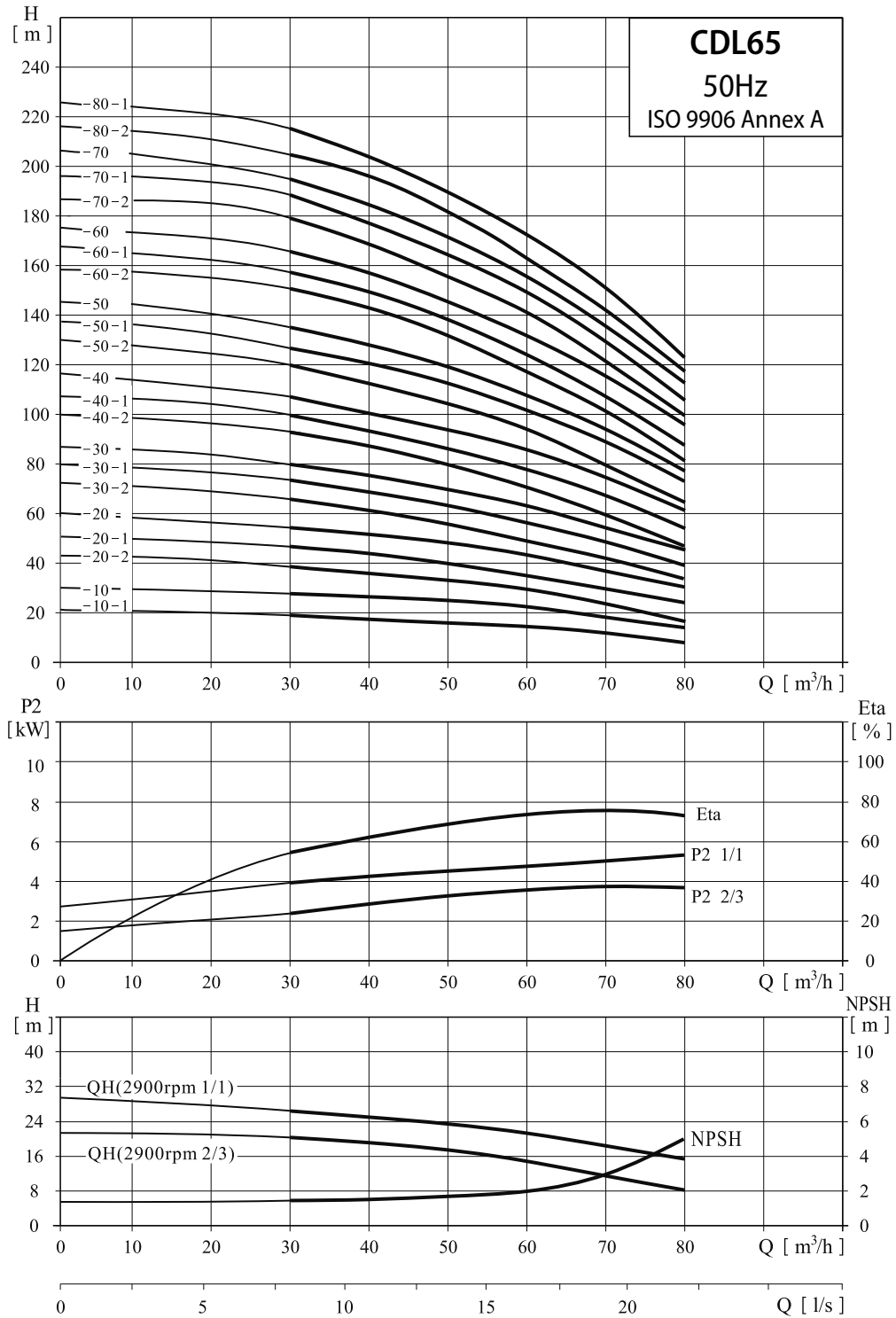
Electrical data 3x380-415V

Model	Motor [kW]	A	Cos Φ	η(%)
CDL 42-10-1	3.0	6.1-5.5	0.87	83
CDL 42-10	4.0	8-7.2	0.88	85
CDL 42-20-2	5.5	10.8-9.7	0.88	86
CDL 42-20	7.5	14.9-13.9	0.88	87
CDL 42-30-2	11	20.9-18.8	0.89	88
CDL 42-30	11	20.9-18.8	0.89	88
CDL 42-40-2	15	27.9-25.1	0.89	89
CDL 42-40	15	27.9-25.1	0.89	89
CDL 42-50-2	18.5	33.9-30.5	0.9	90
CDL 42-50	18.5	33.9-30.5	0.9	90
CDL 42-60-2	22	41.5-37.4	0.9	90
CDL 42-60	22	41.5-37.4	0.9	90
CDL 42-70-2	30	56.5-51.7	0.9	91.2
CDL 42-70	30	56.5-51.7	0.9	91.2
CDL 42-80-2	30	56.5-51.7	0.9	91.2
CDL 42-80	30	56.5-51.7	0.9	91.2
CDL 42-90-2	30	56.5-51.7	0.9	91.2
CDL 42-90	37	68.8-63	0.9	92
CDL 42-100-2	37	68.8-63	0.9	92
CDL 42-100	37	68.8-63	0.9	92
CDL 42-110-2	45	81-74.2	0.9	92.3
CDL 42-110	45	81-74.2	0.9	92.3
CDL 42-120-2	45	81-74.2	0.9	92.3
CDL 42-120	45	81-74.2	0.9	92.3
CDL 42-130-2	45	81-74.2	0.9	92.3

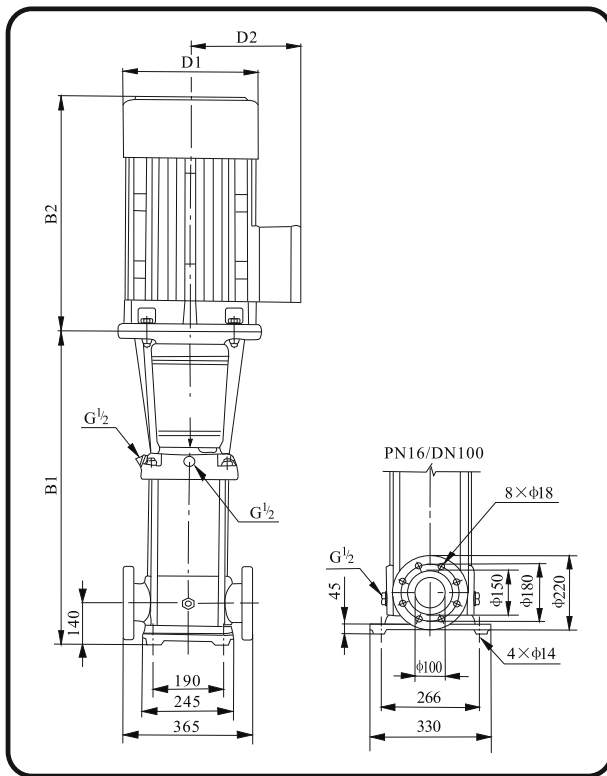
CDL65 / CDLF65 / CDLT65

Performance Curves

The performance curve applies to the CDL,CDLF and CDLT version of the pump.



Dimensional sketch



Dimensions and Weight

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

Remark: The provider data in the tables and sketches apply to the CDL, CDLF and CDLT version of the pump.

Performance table

Model	Motor [kW]	Q [m ³ /h]	H [m]						
			30	40	50	60	65	70	
CDL65-10-1	4.0		19	18	16	14	13	11	
CDL65-10	5.5		27	25	23	21	20	18	
CDL65-20-2	7.5		39	36	33	29	26	23	
CDL65-20-1	11		46	44	40	36	33	30	
CDL65-20	11		53	51	47	43	40	37	
CDL65-30-2	15		66	62	56	50	46	41	
CDL65-30-1	15		73	69	63	57	53	48	
CDL65-30	18.5		80	76	70	64	60	55	
CDL65-40-2	18.5		92	87	80	71	66	60	
CDL65-40-1	22		100	94	87	78	73	67	
CDL65-40	22		107	101	94	85	80	74	
CDL65-50-2	30		121	114	105	95	88	80	
CDL65-50-1	30		128	121	112	102	95	87	
CDL65-50	30		136	129	119	109	102	94	
CDL65-60-2	30		150	142	131	118	110	101	
CDL65-60-1	37		157	149	138	125	117	108	
CDL65-60	37		164	156	145	132	124	115	
CDL65-70-2	37		179	169	156	141	132	121	
CDL65-70-1	37		186	176	163	148	139	128	
CDL65-70	45		193	183	170	155	146	135	
CDL65-80-2	45		207	196	182	164	154	142	
CDL65-80-1	45		215	203	189	171	161	149	

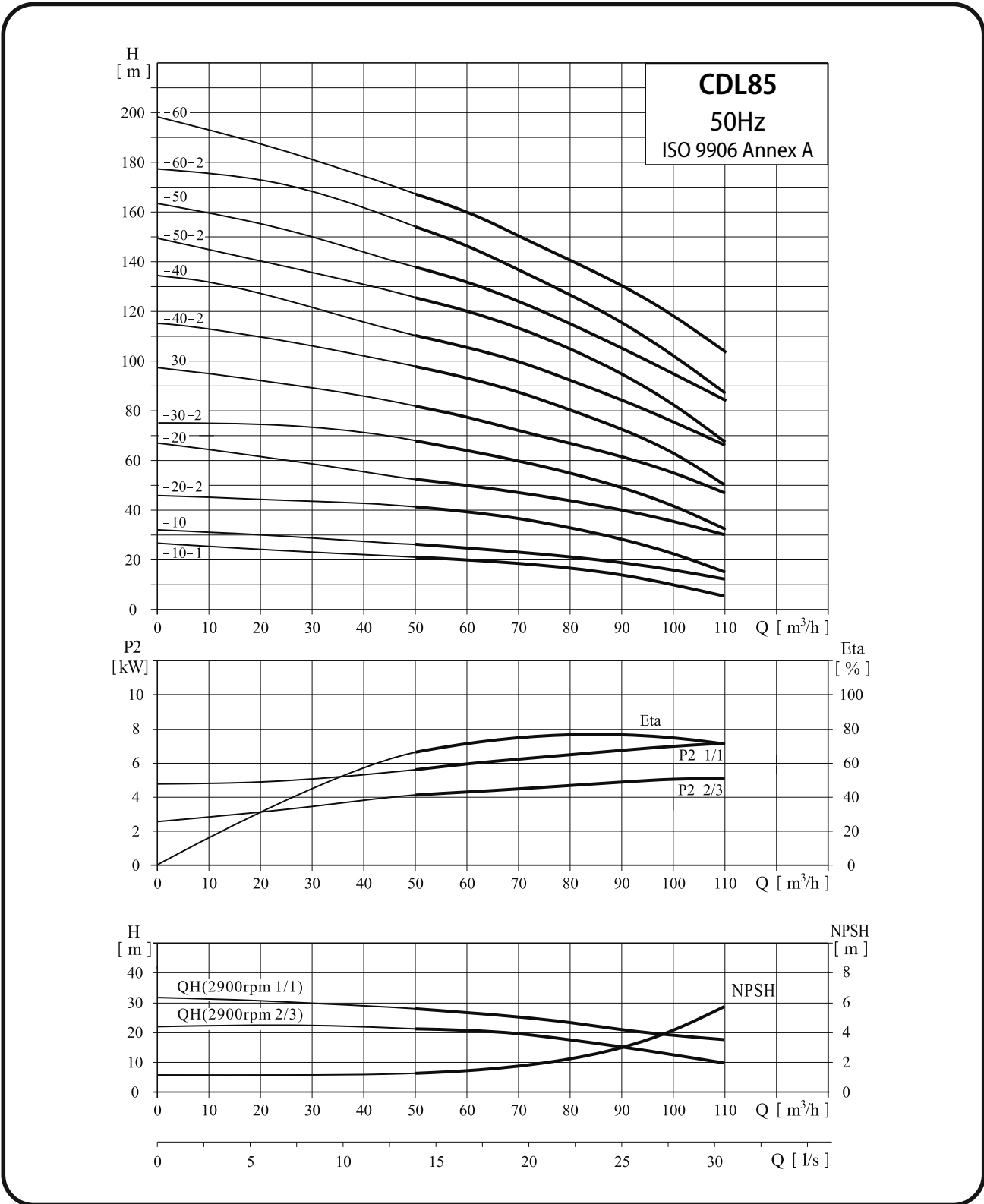
Electrical data 3x380-415V

Model	Motor [kW]	A	Cos Φ	η(%)
CDL 65-10-1	4.0	8-7.2	0.88	85
CDL 65-10	5.5	10.8-9.7	0.88	86
CDL 65-20-2	7.5	14.9-13.9	0.88	87
CDL 65-20-1	11	20.9-18.8	0.89	88
CDL 65-20	11	20.9-18.8	0.89	88
CDL 65-30-2	15	27.9-25.1	0.89	89
CDL 65-30-1	15	27.9-25.1	0.89	89
CDL 65-30	18.5	33.9-30.5	0.9	90
CDL 65-40-2	18.5	33.9-30.5	0.9	90
CDL 65-40-1	22	41.5-37.4	0.9	90
CDL 65-40	22	41.5-37.4	0.9	90
CDL 65-50-2	30	56.5-51.7	0.9	91.2
CDL 65-50-1	30	56.5-51.7	0.9	91.2
CDL 65-50	30	56.5-51.7	0.9	91.2
CDL 65-60-2	30	56.5-51.7	0.9	91.2
CDL 65-60-1	37	68.8-63	0.9	92
CDL 65-60	37	68.8-63	0.9	92
CDL 65-70-2	37	68.8-63	0.9	92
CDL 65-70-1	37	68.8-63	0.9	92
CDL 65-70	45	81-74.2	0.9	92.3
CDL 65-80-2	45	81-74.2	0.9	92.3
CDL 65-80-1	45	81-74.2	0.9	92.3

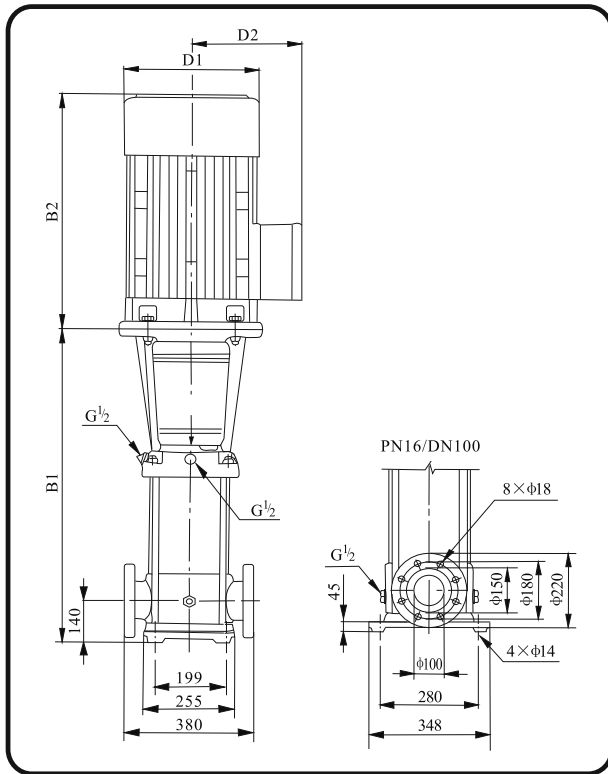
CDL85 / CDLF85 / CDLT85

Performance Curves

The performance curve applies to the CDL,CDLF and CDLT version of the pump.



Dimensional sketch



Dimensions and Weight

Model	Size [mm]					Weight [kg]
	B1	B2	B1+B2	D1	D2	
CDL 85-10-1	571	430	1001	260	208	105
CDL 85-10	571	430	1001	260	208	110
CDL 85-20-2	773	490	1263	330	255	181
CDL 85-20	773	490	1263	330	255	192
CDL 85-30-2	865	550	1415	330	255	215
CDL 85-30	865	590	1455	360	285	252
CDL 85-40-2	957	660	1617	400	310	312
CDL 85-40	957	660	1617	400	310	312
CDL 85-50-2	1049	660	1709	400	310	336
CDL 85-50	1049	660	1709	400	310	336
CDL 85-60-2	1141	700	1841	460	340	407
CDL 85-60	1141	700	1841	460	340	407

Remark: The provider data in the tables and sketches apply to the CDL, CDLF and CDLT version of the pump.

Performance table

Model	Motor [kW]	Q [m ³ /h]	H [m]						
			50	60	70	80	90	100	
CDL85-10-1	5.5	H [m]	22	19	17	16	13	10	
CDL85-10	7.5		25	24	22	21	19	16	
CDL85-20-2	11		41	39	36	32	28	22	
CDL85-20	15		53	50	47	44	40	36	
CDL85-30-2	18.5		68	65	60	55	49	41	
CDL85-30	22		81	77	72	67	62	55	
CDL85-40-2	30		98	93	87	80	72	62	
CDL85-40	30		110	105	100	92	84	76	
CDL85-50-2	37		126	120	113	104	93	81	
CDL85-50	37		139	131	124	115	106	94	
CDL85-60-2	45		155	148	139	129	117	102	
CDL85-60	45		168	160	150	141	130	117	

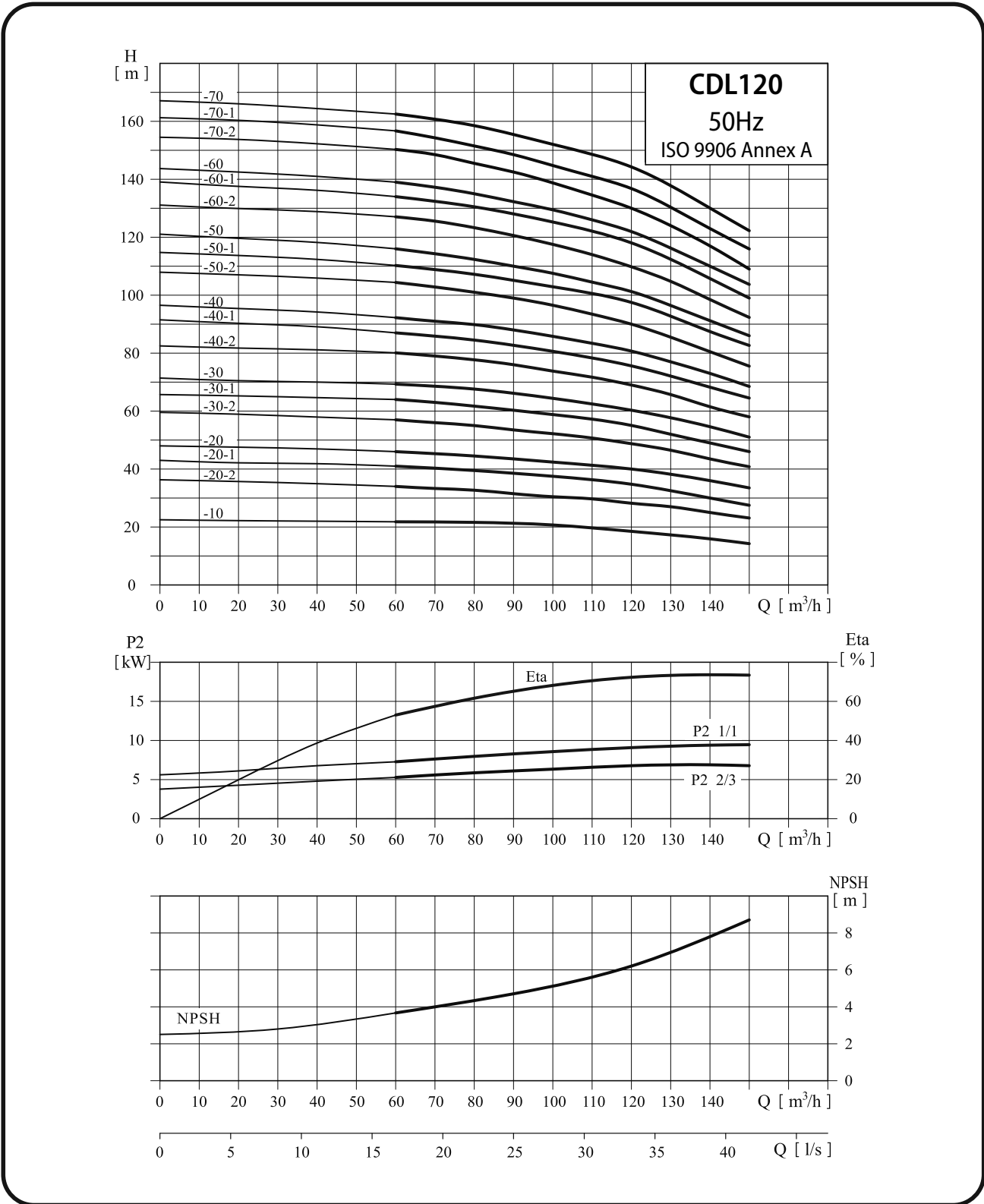
Electrical data 3x380-415V

Model	Motor [kW]	A	Cos Φ	η(%)
CDL 85-10-1	5.5	10.8-9.7	0.88	86
CDL 85-10	7.5	14.9-13.9	0.88	87
CDL 85-20-2	11	20.9-18.8	0.89	88
CDL 85-20	15	27.9-25.1	0.89	89
CDL 85-30-2	18.5	33.9-30.5	0.9	90
CDL 85-30	22	41.5-37.4	0.9	90
CDL 85-40-2	30	56.5-51.7	0.9	91.2
CDL 85-40	30	56.5-51.7	0.9	91.2
CDL 85-50-2	37	68.8-63	0.9	92
CDL 85-50	37	68.8-63	0.9	92
CDL 85-60-2	45	81-74.2	0.9	92.3
CDL 85-60	45	81-74.2	0.9	92.3

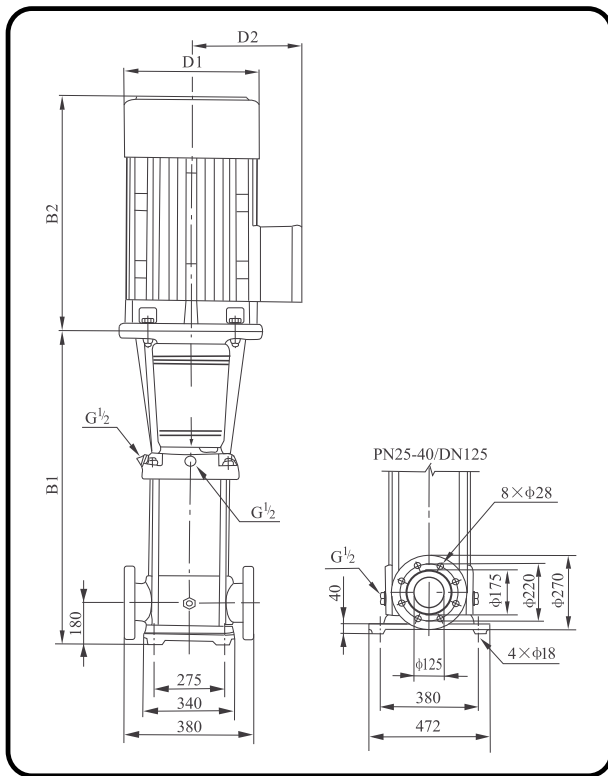
CDL120 / CDLF120 / CDLT120

Performance Curves

The performance curve applies to the CDL,CDLF and CDLT version of the pump.



Dimensional sketch



Dimensions and Weight

Model	Size [mm]					Weight [kg]
	B1	B2	B1+B2	D1	D2	
CDL 120-10-1	840	490	1330	330	255	230
CDL 120-20-2	1000	490	1490	330	255	245
CDL 120-20-1	1000	550	1550	330	255	250
CDL 120-20	1000	590	1590	360	285	285
CDL 120-30-2	1160	660	1820	400	310	360
CDL 120-30-1	1160	660	1820	400	310	360
CDL 120-30	1160	660	1820	400	310	360
CDL 120-40-2	1320	660	1980	400	310	400
CDL 120-40-1	1320	660	1980	400	310	400
CDL 120-40	1350	700	2050	460	340	460
CDL 120-50-2	1480	700	2180	460	340	470
CDL 120-50-1	1480	700	2180	460	340	470
CDL 120-50	1510	770	2280	540	370	575
CDL 120-60-2	1670	770	2440	540	370	585
CDL 120-60-1	1670	770	2440	540	370	585
CDL 120-60	1670	845	2515	580	410	705
CDL 120-70-2	1830	845	2675	580	410	715
CDL 120-70-1	1830	845	2675	580	410	715
CDL 120-70	1830	845	2675	580	410	715

Remark: The provider data in the tables and sketches apply to the CDL,CDLF and CDLT version of the pump.

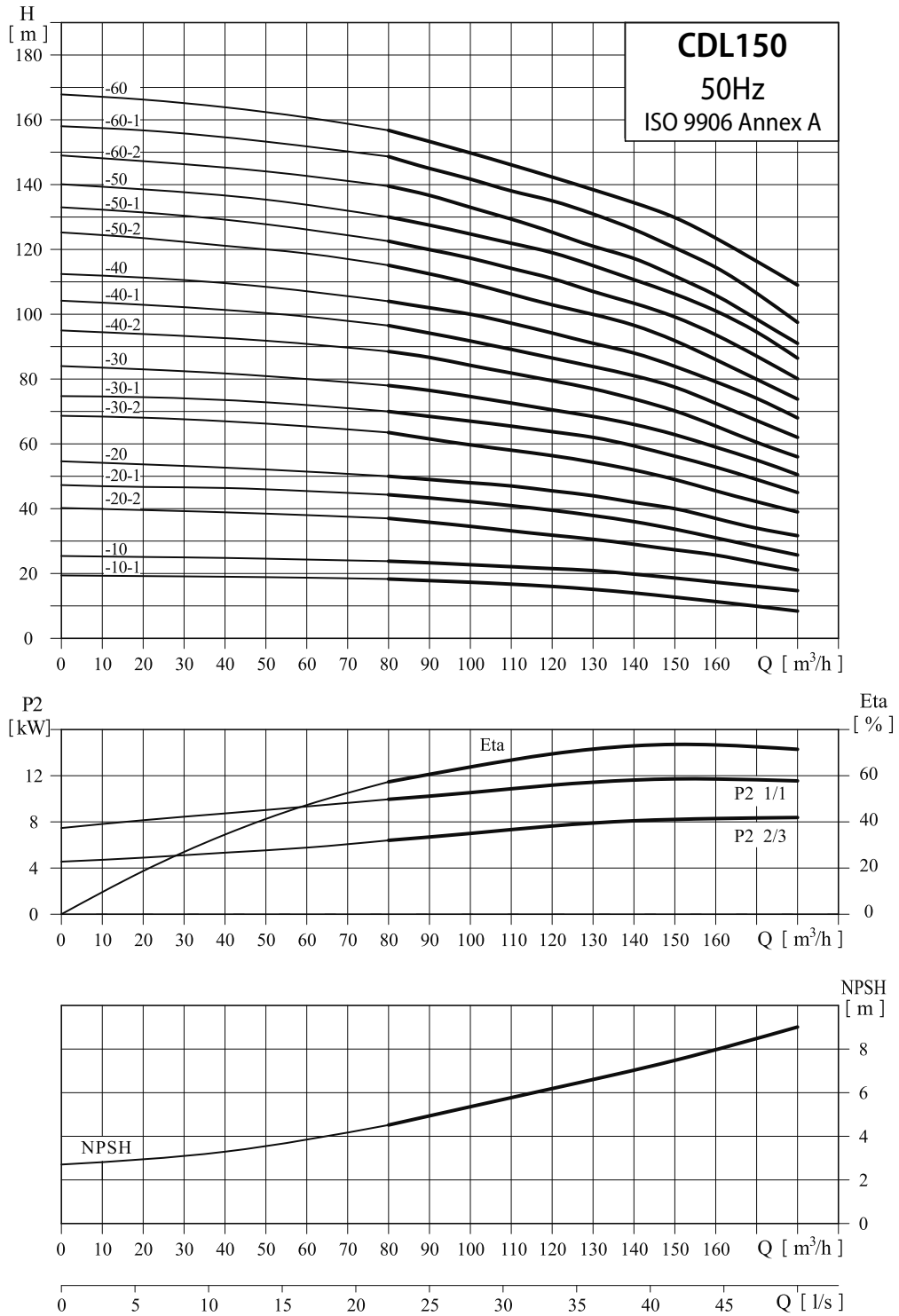
Performance table

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

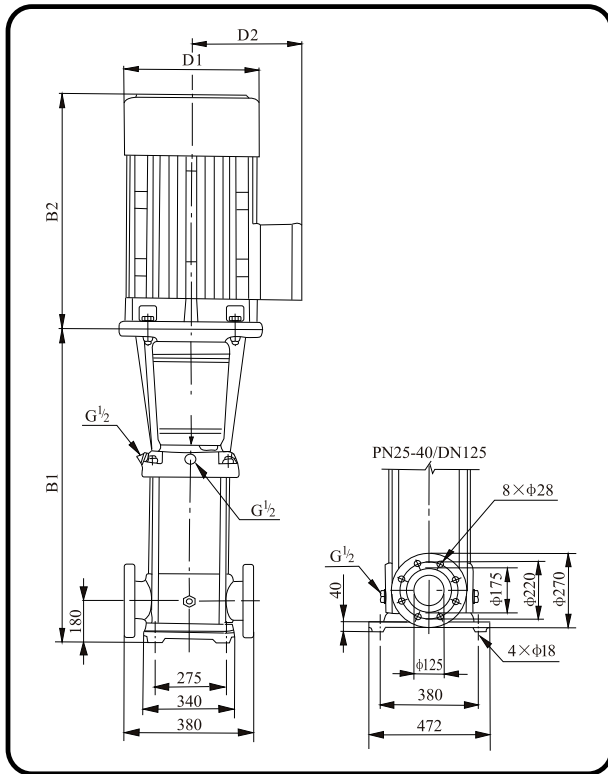
CDL150 / CDLF150 / CDLT150

Performance Curves

The performance curve applies to the CDL,CDLF and CDLT version of the pump.



Dimensional sketch



Dimensions and Weight

Model	Size [mm]					Weight [kg]
	B1	B2	B1+B2	D1	D2	
CDL 150-10-1	840	490	1330	330	255	230
CDL 150-10	840	490	1330	330	255	235
CDL 150-20-2	1000	550	1550	330	255	250
CDL 150-20-1	1000	590	1590	360	285	295
CDL 150-20	1000	660	1660	400	310	350
CDL 150-30-2	1160	660	1820	400	310	360
CDL 150-30-1	1160	660	1820	400	310	360
CDL 150-30	1160	660	1820	400	310	385
CDL 150-40-2	1320	700	2020	460	340	460
CDL 150-40-1	1320	700	2020	460	340	460
CDL 150-40	1350	770	2120	540	370	560
CDL 150-50-2	1510	770	2280	540	370	570
CDL 150-50-1	1510	845	2355	580	410	690
CDL 150-50	1510	845	2355	580	410	690
CDL 150-60-2	1670	845	2515	580	410	700
CDL 150-60-1	1670	845	2515	580	410	700
CDL 150-60	1670	845	2515	580	410	700

Remark: The provider data in the tables and sketches apply to the CDL, CDLF and CDLT version of the pump.

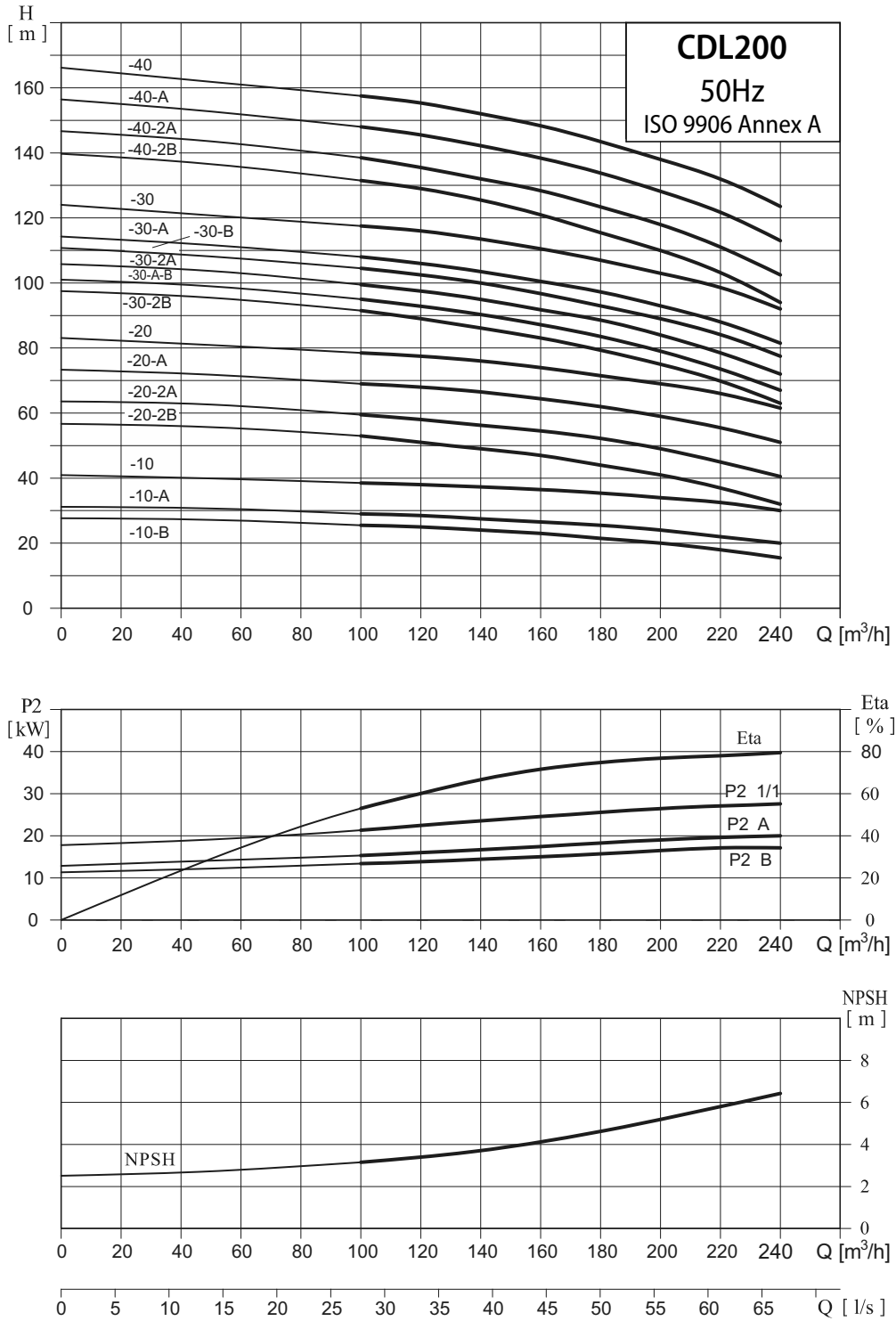
Performance table

Model	Motor [kW]	Q [m ³ /h]	H [m]									
			80	90	100	110	120	130	140	150	160	170
CDL 150-10-1	11	H [m]	18.3	17.8	17.3	17	16	15	14	12.5	11	10
CDL 150-10	15		24	23	22.5	22	21.5	20.5	20	18.5	17	16
CDL 150-20-2	18.5		37	35.5	34	33	32	31	29	27.5	26	23
CDL 150-20-1	22		44.3	43	42	40	39	38.5	37.5	35	33	30
CDL 150-20	30		50	49	48	47	45.5	44	42	40	37	34
CDL 150-30-2	30		63.5	61	59	57.5	56	54.5	53	49	45.5	42
CDL 150-30-1	37		70	68	67	65	63	62	60	56	53	49
CDL 150-30	37		78	76.5	75	73	70.5	68	66	63	59	55
CDL 150-40-2	45		89	87	84	84.5	79	77	74.5	70.5	65.5	60
CDL 150-40-1	45		96.5	94	91.5	89	86.5	84	81.5	77	72.5	67
CDL 150-40	55		104	102	100	97	95	91	88	84	79.5	74
CDL 150-50-2	55		115.5	112	109	106	102.5	100	97	92	86	79
CDL 150-50-1	75		122.5	119.5	117	113.5	111.5	107.5	104.5	99	93.5	87
CDL 150-50	75		130	127.5	125	121	119	115	111.5	106.5	101	94.5
CDL 150-60-2	75		140	137	133	130	126	121	118	112	106	98
CDL 150-60-1	75		148.5	145	141.7	137.5	135	131	127	120.5	114.5	106.5
CDL 150-60	75		157	153	149	145	142	139.5	137	130	123.5	116

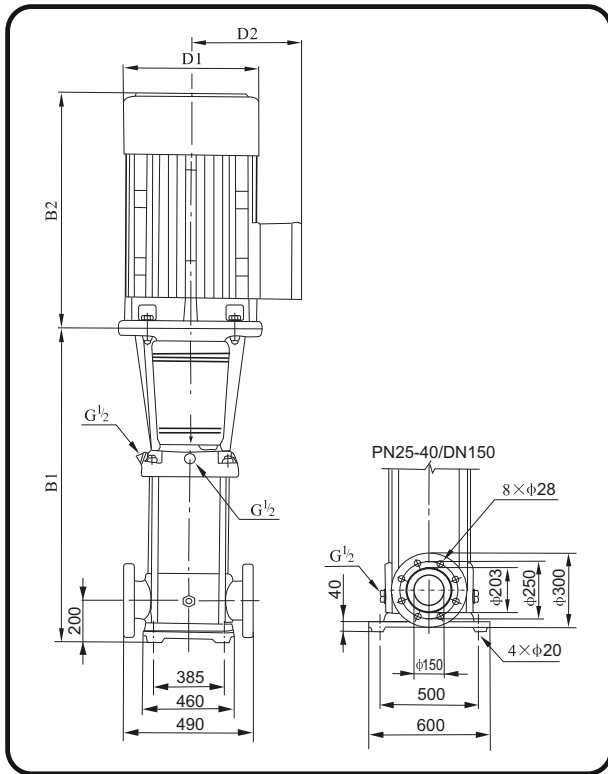
CDL200 / CDLF200 / CDLT200

Performance Curves

The performance curve applies to the CDL,CDLF and CDLT version of the pump.



Dimensional sketch



Dimensions and Weight

Model	Size (mm)					Weight (kg)
	B1	B2	B1+B2	D1	D2	
CDL200-10-B	907	550	1457	330	255	311
CDL200-10-A	907	590	1497	360	285	347
CDL200-10	907	660	1567	400	310	403
CDL200-20-2B	1101	660	1761	400	310	447
CDL200-20-2A	1101	700	1801	460	340	504
CDL200-20-A	1131	770	1901	540	370	595
CDL200-20	1131	770	1901	540	370	595
CDL200-30-2B	1325	845	2170	580	410	748
CDL200-30-A-B	1325	845	2170	580	410	748
CDL200-30-2A	1325	845	2170	580	410	748
CDL200-30-B	1325	845	2170	580	410	748
CDL200-30-A	1325	845	2170	580	410	748
CDL200-30	1325	895	2220	580	410	817
CDL200-40-2B	1519	895	2414	580	410	830
CDL200-40-2A	1519	1140	2659	645	550	1180
CDL200-40-A	1519	1140	2659	645	550	1180
CDL200-40	1519	1140	2659	645	550	1180

Performance table

Model	Motor P2 [kW]	Q m3/h	H (m)							
			100	120	140	160	180	200	220	240
CDL200-10-B	18.5	H (m)	25.5	25	24	23	21.5	20	18	15.5
CDL200-10-A	22		29	28.5	27.5	26.5	25.5	24	22	20
CDL200-10	30		38.5	38	37.5	36.5	35	34	32.5	30
CDL200-20-2B	37		53	51	49	47	44	41	37	32
CDL200-20-2A	45		59.5	58	56	54	52.5	49	44.5	40.5
CDL200-20-A	55		69	68	66	64	62	59	55.5	51
CDL200-20	55		78.5	77.5	76	74	71.5	69	66	61.5
CDL200-30-2B	75		91.5	89	86.5	83.5	79	75	70	63
CDL200-30-A-B	75		95	93	90	87	83.5	79	73.5	67
CDL200-30-2A	75		99.5	97.5	94.5	91.5	89	84	78.5	72
CDL200-30-B	75		104.5	102.5	100	97	93	89	84.5	77.5
CDL200-30-A	75		108	106	103	100.5	97.5	93	88	81.5
CDL200-30	90		117.5	116	113.5	110.5	107	103	99	92
CDL200-40-2B	90		131.5	129	125.5	121	115.5	110	103.5	94
CDL200-40-2A	110		138.5	136	132	128	124	118	111	102.5
CDL200-40-A	110		148	145.5	142.5	138	134	128	122	113
CDL200-40	110		158	155.5	152.5	148	143.5	138	132.5	123.5





SWP

Neufeldstrasse 15
3605 Thun - Gwatt
Switzerland
Tel. +41 33 35 2550