

CDL 50Hz/60Hz

Light Vertical Multistage Centrifugal Pump

CDLF



● Pump

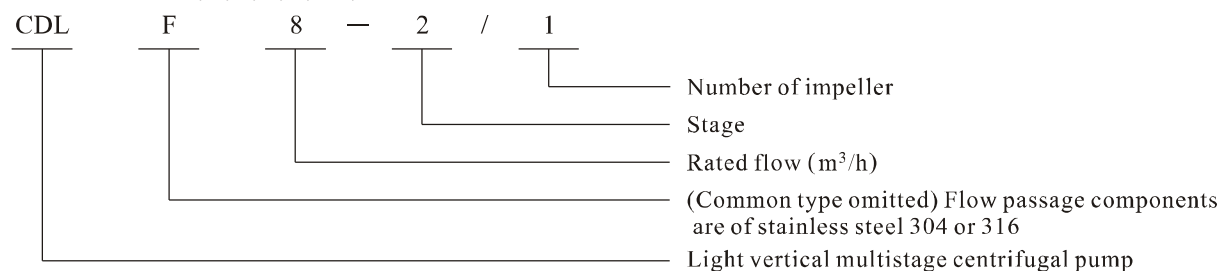
CDL / CDLF is a kind of vertical non-self priming multistage centrifugal pump, which is driven by a standard electric motor. The motor output shaft directly connects with the pump shaft through a coupling. The pressure-resistant cylinder and flow passage components are fixed between pump head and inlet & 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.

● Motor

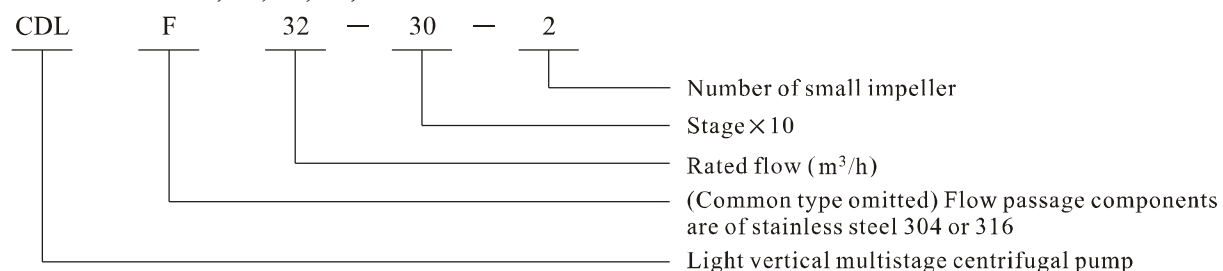
- Full-enclosed air-blast two-pole standard motor
- Protection class: IP55
- Insulation class: F
- Standard voltage: 50Hz: 1 × 220-230 / 240V
3 × 200-220 / 346-380V
3 × 220-240 / 380-415V
3 × 380-415V
- Standard voltage: 60Hz: 3 × 200-230 / 346-400V
3 × 220-255 / 380-440V
3 × 220-277 / 380-480V

● Definition of Model

CDL/CDLF1,2,3,4,8,12,16 and 20



CDL/CDLF32,42,65,85,120 and 150



● Application

CDL / CDLF 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 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.

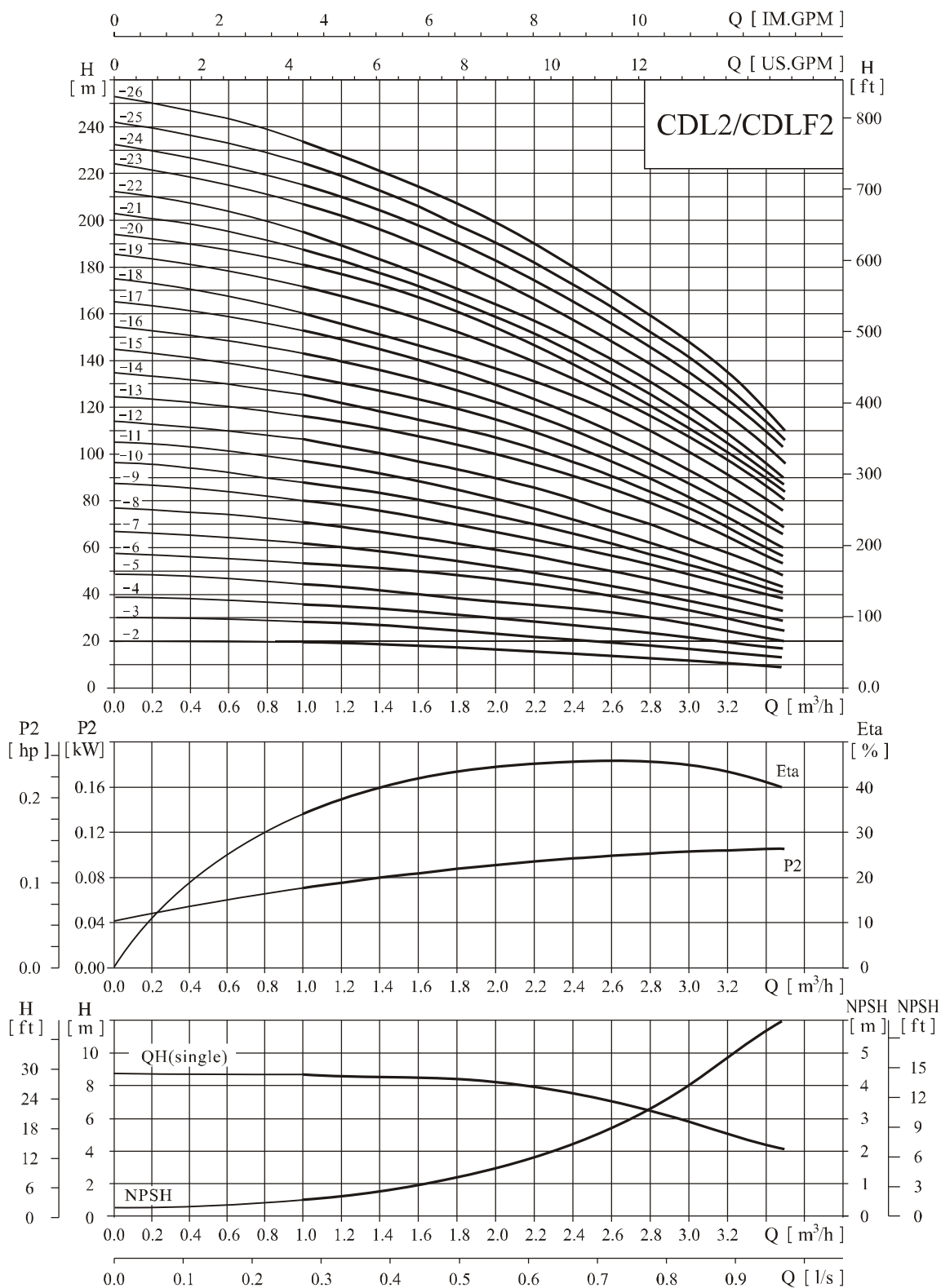
● Operation conditions

- Thin, clean, non-flammable and non-explosive liquid containing no solid granules and fibers.
- Liquid temperature:
Normal temperature type: -15℃ ~ +70℃,
Hot water type: +70℃ ~ +120℃
- Ambient temperature: up to +40℃
- Altitude: up to 1000m

CDL/CDLF2,50Hz

● Performance curve

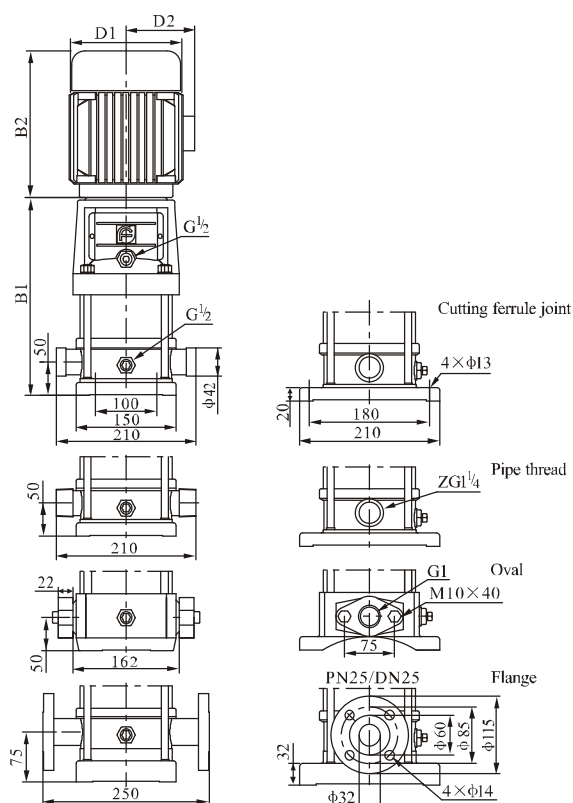
ISO9906 Annex A 2900rpm



Performance table

Model	Driving motor		Q (m ³ /h)	1	1.2	1.6	2.0	2.4	2.8	3.2	3.5
	(kW)	(hp)									
CDL2-2	0.37	0.5	H (m)	18	17	16	15	13	12	10	8
CDL2-3	0.37	0.5		27	26	24	22	20	18	15	12
CDL2-4	0.55	0.75		36	35	33	30	26	24	20	16
CDL2-5	0.55	0.75		45	43	40	37	33	30	24	20
CDL2-6	0.75	1		53	52	50	45	40	36	30	24
CDL2-7	0.75	1		63	61	57	52	47	41	35	28
CDL2-9	1.1	1.5		80	78	73	67	61	54	45	37
CDL2-11	1.1	1.5		98	95	89	82	73	64	54	44
CDL2-13	1.5	2		116	114	106	98	89	78	65	52
CDL2-15	1.5	2		134	130	123	112	100	90	73	60
CDL2-18	2.2	3		161	157	148	136	121	108	91	76
CDL2-22	2.2	3		197	192	180	165	148	130	110	90
CDL2-26	3.0	4		232	228	214	198	179	158	130	110

Installation sketch



CDL2-18 ~ 2-26 sub-connection of pipeline without oval flange

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

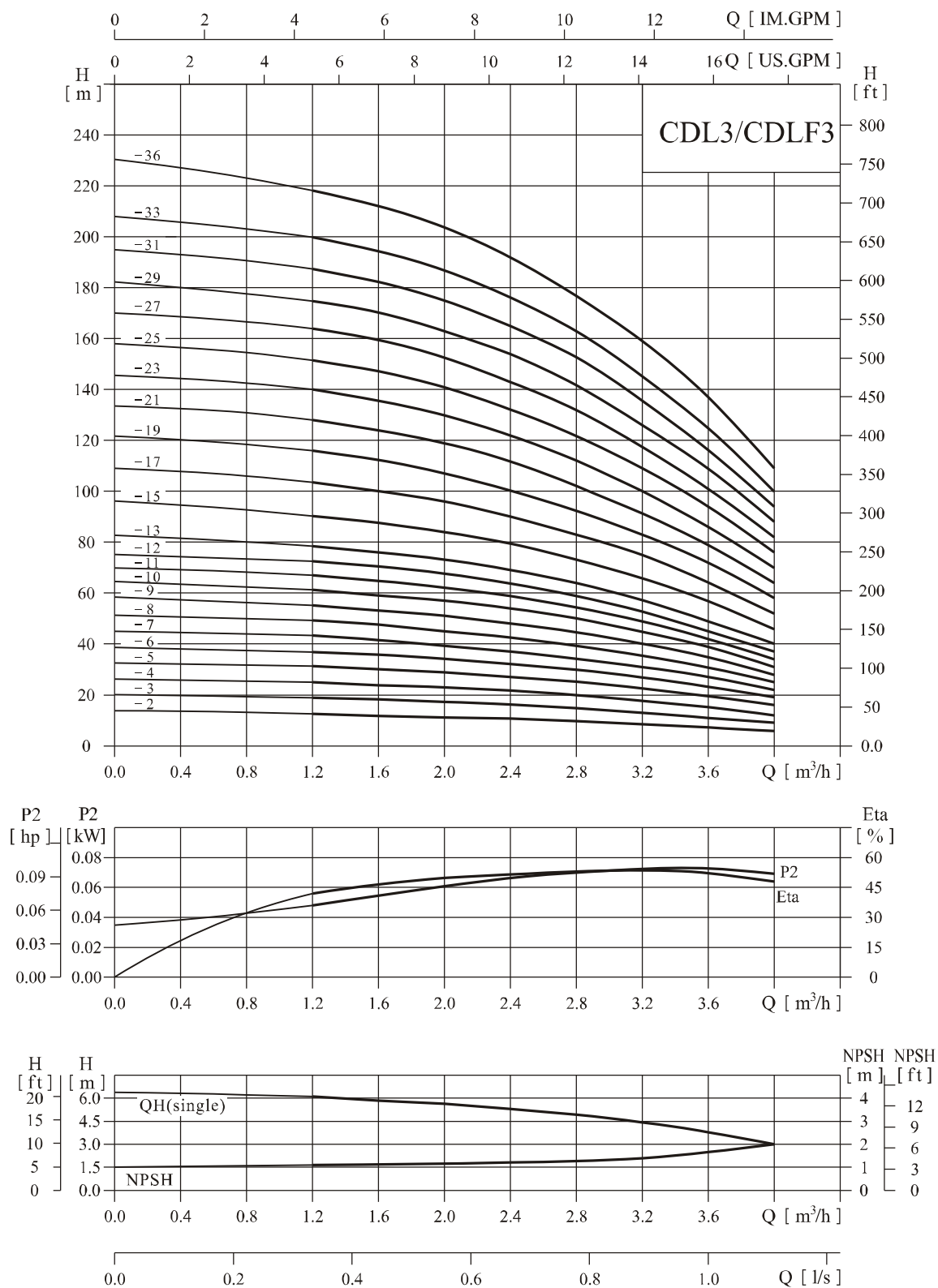
Size and weight

Model	Size (mm)					Weight (kg)
	B1	B2	B1+B2	D1	D2	
CDL2-2	258	210	468	148	117	20
CDL2-3	276	210	486	148	117	20
CDL2-4	294	210	504	148	117	20
CDL2-5	312	210	522	148	117	20
CDL2-6	340	245	585	170	142	25
CDL2-7	358	245	603	170	142	25
CDL2-9	394	245	639	170	142	30
CDL2-11	430	245	675	170	142	30
CDL2-13	476	290	766	190	155	35
CDL2-15	512	290	802	190	155	35
CDL2-18	566	290	856	190	155	40
CDL2-22	638	290	928	190	155	45
CDL2-26	720	315	1035	197	165	50

CDL/CDLF3,50Hz

● Performance curve

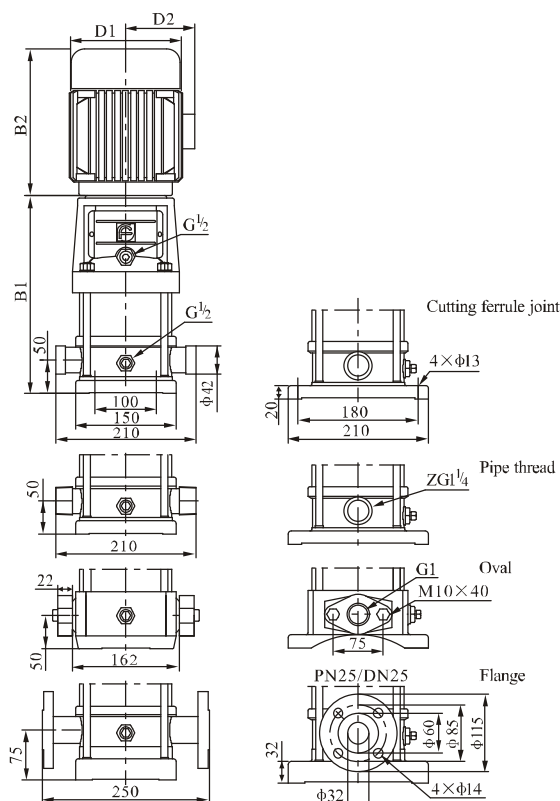
ISO9906 Annex A 2900rpm



Performance table

Model	Driving motor		Q (m ³ /h)	1.2	1.6	2.0	2.4	2.8	3.0	3.2	3.6	4.0
	(kW)	(hp)										
CDL3-2	0.37	0.5	H (m)	12.5	11.5	11	10.5	10	9	8	7	6
CDL3-3	0.37	0.5		19	18.5	17.5	16.5	15	14	13	11	9
CDL3-4	0.37	0.5		25	24	23	21.5	20	19	18	15	12
CDL3-5	0.37	0.5		31	30	29	27	25	23	22	19	16
CDL3-6	0.55	0.75		36	35	34	32	30	28	27	23	19
CDL3-7	0.55	0.75		43	41	39	37	34	32	31	27	22
CDL3-8	0.75	1		49	47	45	43	39	37	35	31	25
CDL3-9	0.75	1		55	53	51	48	45	42	40	35	28
CDL3-10	0.75	1		61	59	57	54	50	47	45	39	31
CDL3-11	1.1	1.5		67	64	61	58	54	51	49	42	34
CDL3-12	1.1	1.5		73	70	67	63	58	55	52	45	37
CDL3-13	1.1	1.5		78	76	73	69	64	60	57	49	40
CDL3-15	1.1	1.5		90	88	84	79	73	69	66	57	46
CDL3-17	1.5	2		103	100	96	90	83	79	75	64	52
CDL3-19	1.5	2		115	112	107	100	92	88	83	72	58
CDL3-21	2.2	3		128	124	119	112	102	98	91	79	64
CDL3-23	2.2	3		140	135	130	122	112	107	100	86	70
CDL3-25	2.2	3		151	147	141	131	122	116	109	94	76
CDL3-27	2.2	3		164	159	152	143	132	124	117	101	82
CDL3-29	2.2	3		175	170	163	153	142	133	126	109	88
CDL3-31	3.0	4		187	182	175	165	153	142	135	116	94
CDL3-33	3.0	4		199	194	187	176	163	151	145	125	100
CDL3-36	3.0	4		218	212	204	192	178	168	159	137	109

Installation sketch



Size and weight

Model	Size (mm)					Weight (kg)
	B1	B2	B1+B2	D1	D2	
CDL3-2	258	210	468	148	117	20
CDL3-3	276	210	486	148	117	20
CDL3-4	294	210	504	148	117	20
CDL3-5	312	210	522	148	117	20
CDL3-6	330	210	540	148	117	22
CDL3-7	348	210	558	148	117	22
CDL3-8	376	245	621	170	142	22
CDL3-9	394	245	639	170	142	22
CDL3-10	412	245	657	170	142	22
CDL3-11	430	245	675	170	142	25
CDL3-12	448	245	693	170	142	25
CDL3-13	466	245	711	170	142	25
CDL3-15	502	245	747	170	142	25
CDL3-17	548	290	838	190	155	30
CDL3-19	584	290	874	190	155	35
CDL3-21	620	290	910	190	155	35
CDL3-23	656	290	946	190	155	40
CDL3-25	692	290	982	190	155	40
CDL3-27	728	290	1018	190	155	40
CDL3-29	764	290	1054	190	155	40
CDL3-31	810	315	1125	197	165	45
CDL3-33	846	315	1161	197	165	50
CDL3-36	900	315	1215	197	165	50

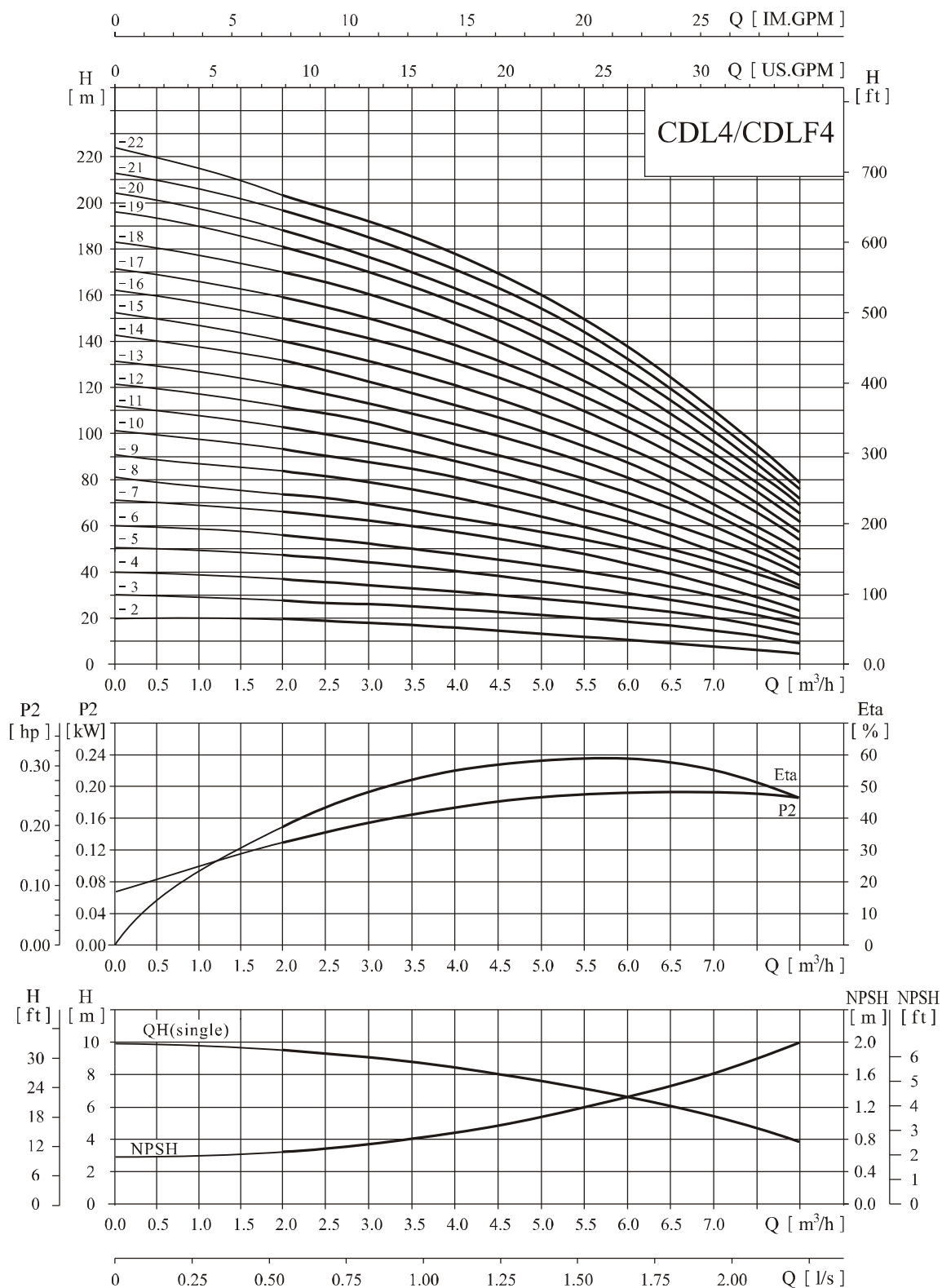
CDL3-25 ~ 3-36 sub-connection of pipeline without oval flange

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

CDL/CDLF4,50Hz

● Performance curve

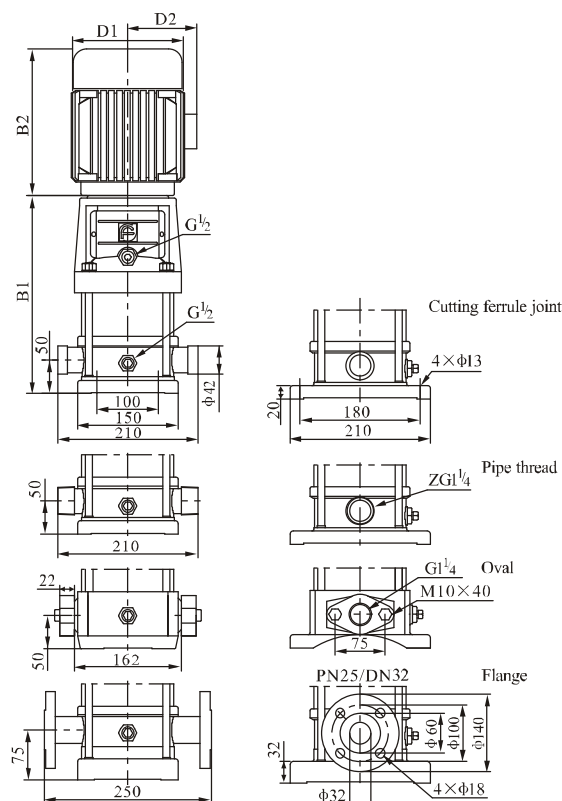
ISO9906 Annex A 2900rpm



● Performance table

Model	Driving motor		Q (m ³ /h)	1.5	2.0	3.0	4.0	5.0	6.0	7.0	8.0
	(kW)	(hp)									
CDL4-2	0.37	0.5	H (m)	19	18	17	15	13	10	8	6
CDL4-3	0.55	0.75		28	27	26	24	20	18	13	10
CDL4-4	0.75	1		38	36	34	32	27	24	19	13
CDL4-5	1.1	1.5		47	45	43	40	34	31	23	17
CDL4-6	1.1	1.5		56	54	52	48	41	37	28	20
CDL4-7	1.5	2		66	63	61	56	48	43	33	24
CDL4-8	1.5	2		74	72	70	64	55	50	38	27
CDL4-10	2.2	3		96	90	87	81	71	62	48	34
CDL4-12	2.2	3		114	108	104	95	85	75	58	41
CDL4-14	3.0	4		136	126	122	112	101	89	68	48
CDL4-16	3.0	4		152	144	140	129	115	101	78	55
CDL4-19	4.0	5.5		183	171	168	153	137	122	93	67
CDL4-22	4.0	5.5		211	200	192	178	160	138	108	79

● Installation sketch



CDL4-19 ~ 4-22 sub-connection of pipeline without oval flange

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

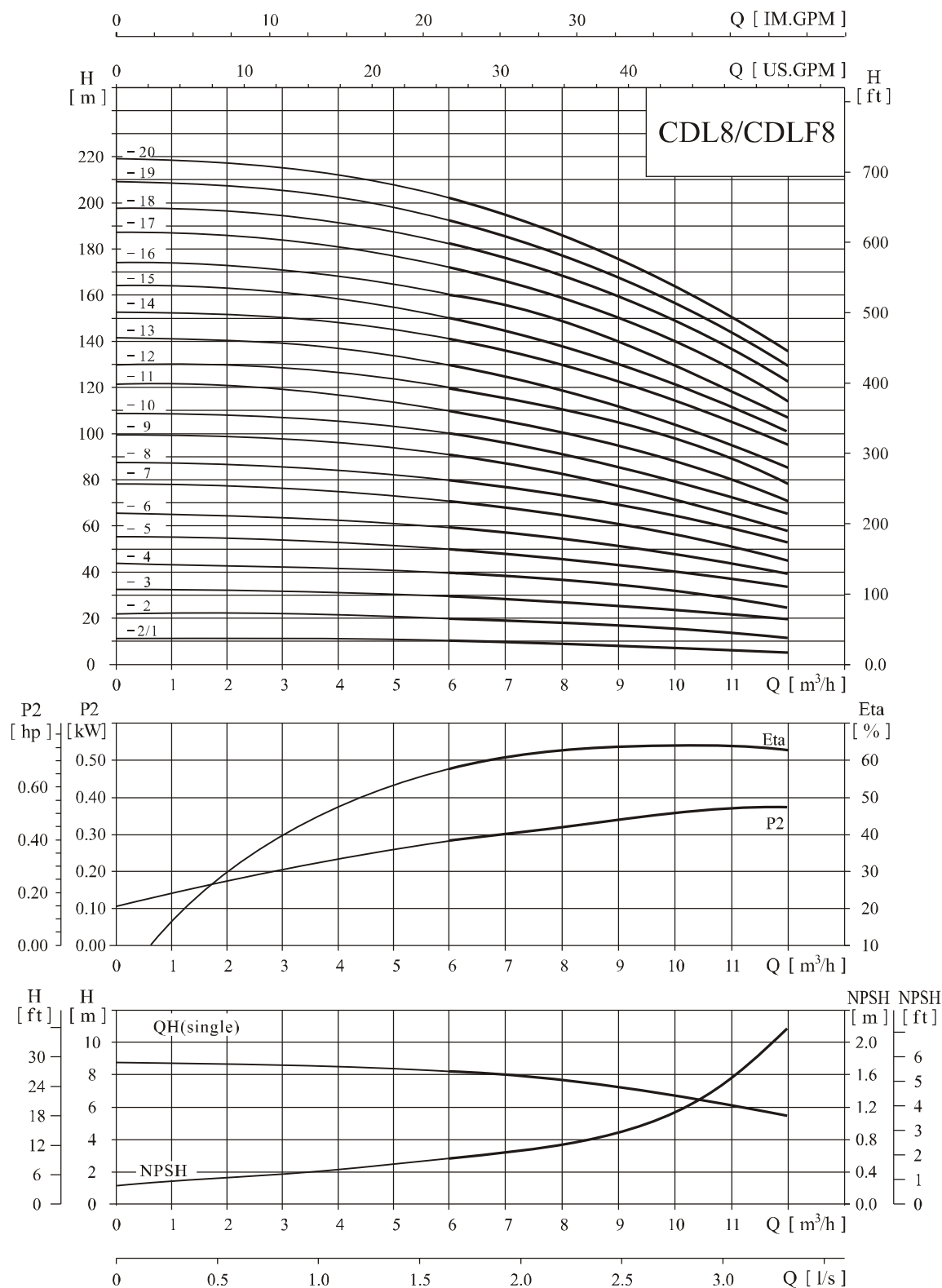
● Size and weight

Model	Size (mm)					Weight (kg)
	B1	B2	B1+B2	D1	D2	
CDL4-2	276	210	486	148	117	20
CDL4-3	303	210	513	148	117	20
CDL4-4	340	245	585	170	142	20
CDL4-5	367	245	612	170	142	25
CDL4-6	394	245	639	170	142	25
CDL4-7	431	290	721	190	155	30
CDL4-8	458	290	748	190	155	30
CDL4-10	512	290	802	190	155	30
CDL4-12	566	290	856	190	155	35
CDL4-14	630	315	945	197	165	35
CDL4-16	684	315	999	197	165	40
CDL4-19	765	335	1100	230	188	45
CDL4-22	846	335	1181	230	188	50

CDL/CDLF8,50Hz

● Performance curve

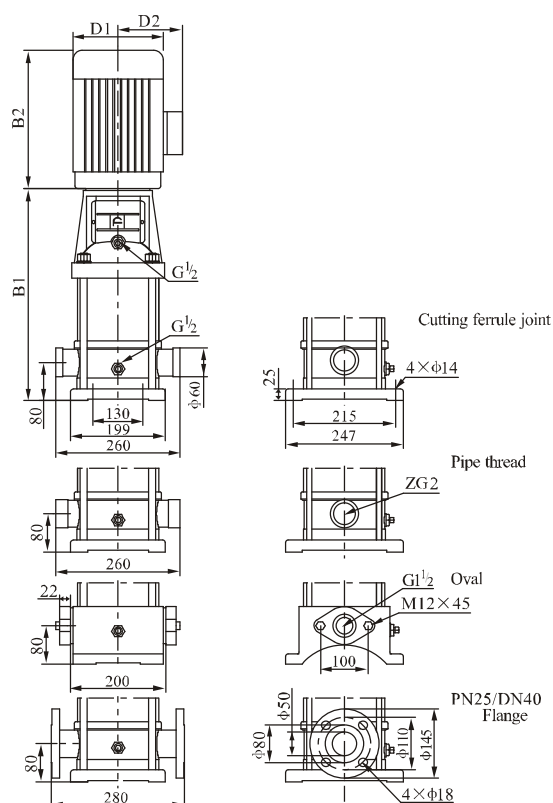
ISO9906 Annex A 2900rpm



Performance table

Model	Driving motor		Q (m ³ /h)	5	6	7	8	9	10	11	12
	(kW)	(hp)									
CDL8-2/1	0.75	1	H (m)	10	9.5	9.3	9	8.5	8	7	6
CDL8-2	0.75	1		20	19.5	19	18	17	16	14	13
CDL8-3	1.1	1.5		30	29.5	28.5	27	25	24	21	19
CDL8-4	1.5	2		41	39.5	38	36	34	32	28	26
CDL8-5	2.2	3		52	50	48	45	42	40	36	32
CDL8-6	2.2	3		62	60	57	54	51	48	43	39
CDL8-8	3.0	4		83	80	77	73	69	65	58	52
CDL8-10	4.0	5.5		104	100	97	92	87	81	73	65
CDL8-12	4.0	5.5		124	120	116	111	104	92	87	78
CDL8-14	5.5	7.5		145	141	136	130	122	113	102	92
CDL8-16	5.5	7.5		166	161	156	148	139	130	118	106
CDL8-18	7.5	10		187	182	175	167	157	146	134	120
CDL8-20	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	D2	
CDL8-2/1	347	245	592	170	142	22
CDL8-2	347	245	592	170	142	22
CDL8-3	377	245	622	170	142	32
CDL8-4	417	290	707	190	155	32
CDL8-5	447	290	737	190	155	42
CDL8-6	477	290	767	190	155	42
CDL8-8	547	315	862	197	165	47
CDL8-10	607	335	942	230	188	57
CDL8-12	667	335	1002	230	188	57
CDL8-14	747	430	1177	260	208	82
CDL8-16	807	430	1237	260	208	82
CDL8-18	867	430	1297	260	208	92
CDL8-20	927	430	1357	260	208	92

CDL8-14 ~ 8-20 sub-connection of pipeline without oval flange

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