



# CDL/CDLF 50Hz

Light Vertical Multistage Centrifugal Pump

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**ZHEJIANG NANBENG FLUID MACHINERY CO.,LTD.**

# Company Profile



Zhejiang Nanbeng Fluid Machinery Co.,Ltd. is a leading pump manufacturer committed to the Chinese people's water safety to make our own contribution.The team who founded the company is the first generation research and development of stainless steel centrifugal pump in China, has accumulated more than 30 years of technology research and development experience,core members presided over and participated in the development of national standard of the "light, small multistage centrifugal pump", national science and technology support plans for the 11th, 12th and 13th five-years plan, "national torch project", "national key new product project" and other projects of research and development,design and production.R&D centre equipped with industry-leading CFD fluid 3D simulation design software, domestic top stamping equipment and automatic production line to ensure high performance and high stability of products,our comprehensive R & D and production strength achieve domestic advanced level.

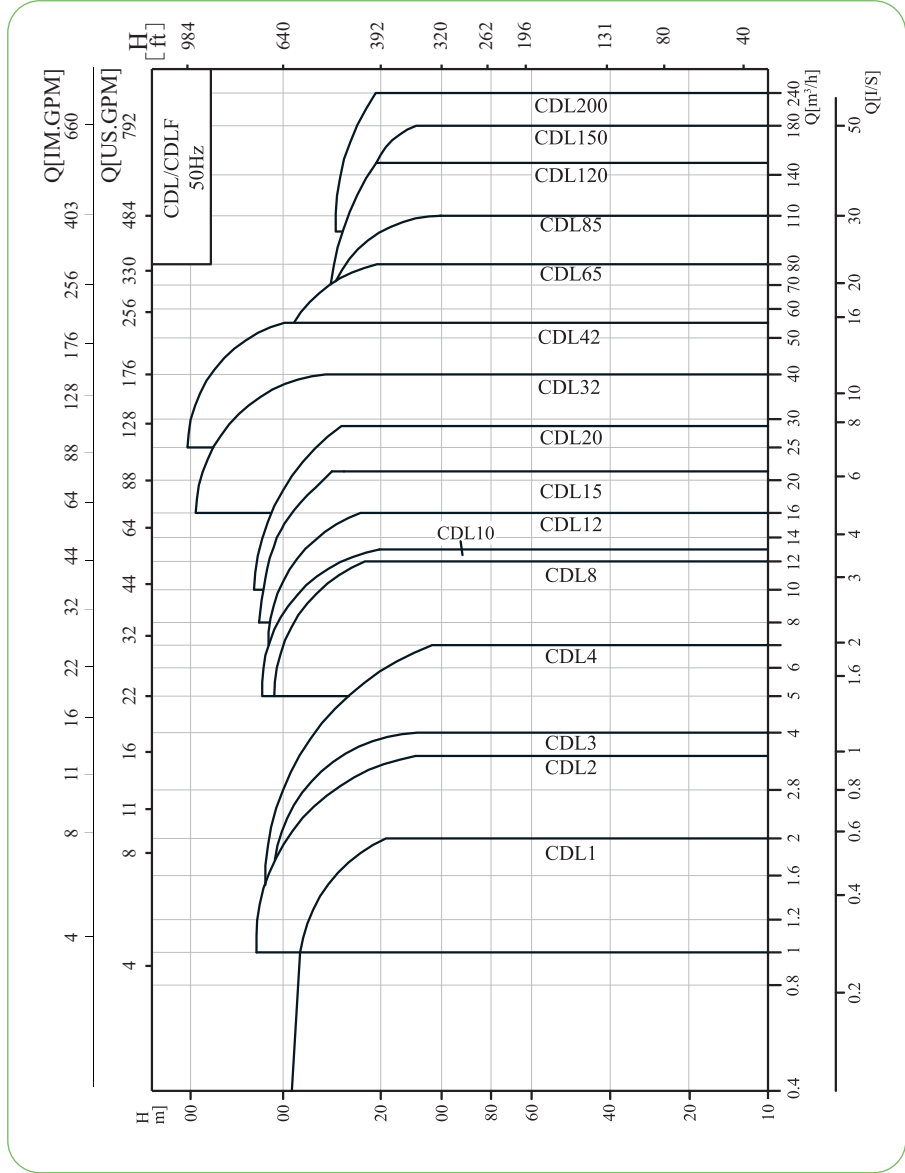
The construction area of the company is 82,000 square meters,design output value is one billion per year.We can offer you a wide range of stainless steel stamping and welding centrifugal pump, pipeline circulation pump, end suction centrifugal pump, sewage submersible pump, high pressure pump, fire pump and water supply and drainage complete sets of products for many applications as highest performance in booster sets and pressurization, building services,water treatment, industry, irrigation and industrial process,fire-fighting sets, pumping of underground water, drainage and sewage, utilities and desalination.Now we are looking for more partners around the world,we sincerely looking forward to your joining at Huzhou China.Global water challenges as well as opportunities, require excellence in pumping technologies and close cooperation between pump designers and manufacturers. Let's cooperate and make our contribution to the water security for more people all over the world.

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Performance scope



Product range

| Description           | CDL 1     | CDL 2     | CDL 3    | CDL 4    | CDL 8    | CDL 10   | CDL 12  | CDL 15  | CDL 20   | CDL 32   | CDL 42   | CDL 65   | CDL 85    | CDL 120   | CDL 150 | CDL 200   |
|-----------------------|-----------|-----------|----------|----------|----------|----------|---------|---------|----------|----------|----------|----------|-----------|-----------|---------|-----------|
| Rated flow[m³/h]      | 1         | 2         | 3        | 4        | 8        | 10       | 12      | 15      | 20       | 32       | 42       | 65       | 85        | 120       | 150     | 200       |
| Rated flow[l/s]       | 0.28      | 0.56      | 0.83     | 1.1      | 2.2      | 2.78     | 3.3     | 4.17    | 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     | 5-13     | 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  | 1.4-3.64 | 1.9-4.4 | 2.1-6.1 | 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      | 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 | 0.75-7.5 | 1.5-11  | 1.1-15  | 1.1-18.5 | 1.5-30   | 3.0-45   | 4.0-45   | 5.5-45    | 11-75     | 11-75   | 18.5-110  |
| Temp.[ °C]            | -15-+120  |           |          |          |          |          |         |         |          |          |          |          |           |           |         |           |
| MAX.efficiency[%]     | 44        | 46        | 54       | 57       | 62       | 68       | 63      | 70      | 69       | 73       | 75       | 76       | 77        | 74        | 73      | 79        |
| Type                  |           |           |          |          |          |          |         |         |          |          |          |          |           |           |         |           |
| CDL                   | •         | •         | •        | •        | •        | •        | •       | •       | •        | •        | •        | •        | •         | •         | •       | •         |
| CDF                   | •         | •         | •        | •        | •        | •        | •       | •       | •        | •        | •        | •        | •         | •         | •       | •         |
| CDL Pipelines         |           |           |          |          |          |          |         |         |          |          |          |          |           |           |         |           |
| DIN Flange            | DN25      | DN25      | DN25     | DN32     | DN40     | DN40     | DN50    | DN50    | DN50     | DN65     | DN80     | DN100    | DN100     | DN125     | DN125   | DN150     |
| Oval Flange           | G1        | G1        | G1       | G1¼      | G1½      | G1½      |         |         |          |          |          |          |           |           |         |           |
| CDF Pipelines         |           |           |          |          |          |          |         |         |          |          |          |          |           |           |         |           |
| DIN Flange            | DN25      | DN25      | DN25     | DN32     | DN40     | DN40     | DN50    | DN50    | DN50     | DN65     | DN80     | DN100    | DN100     | DN125     | DN125   | DN150     |
| Cutting ferrule joint | DN32      | DN32      | DN32     | DN32     | DN50     | DN50     | DN50    | DN50    | DN50     |          |          |          |           |           |         |           |
| Pipe thread           | R1¼       | R1¼       | R1¼      | R1¼      | R2       | R2       | R2      | R2      | R2       |          |          |          |           |           |         |           |
| Oval Flange           | G1        | G1        | G1       | G1¼      | G1½      | G1½      |         |         |          |          |          |          |           |           |         |           |

## Pump

CDL / CDLF is a kind of vertical non-self priming multi-stage 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 stay 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

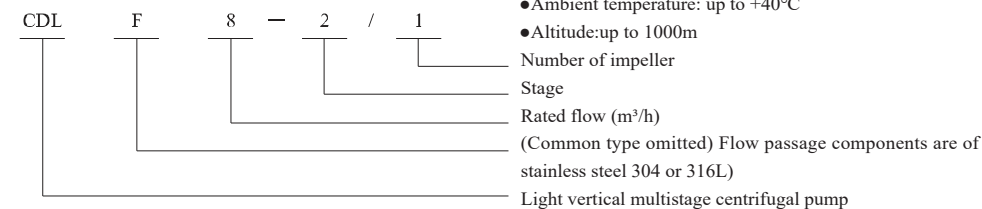
3 × 200-220 / 346-380V

3 × 220-240 / 380-415V

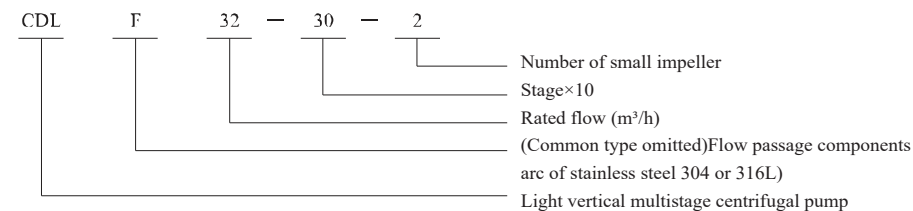
3 × 380-415V

## Definition of Model

CDL/CDLF1,2,3,4,8,10,12,15 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°C~+70°C,  
Hot water type: -15°C~+120°C

●Ambient temperature: up to +40°C

●Altitude: up to 1000m

Number of impeller

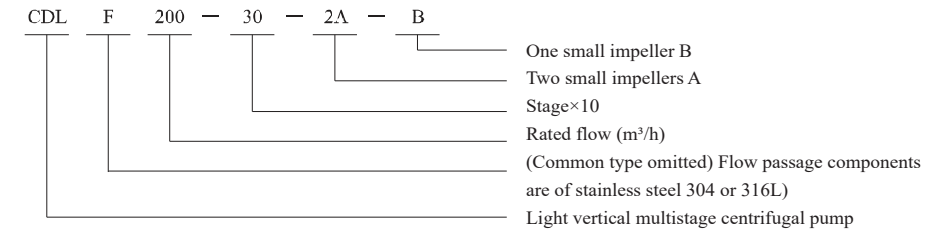
Stage

Rated flow (m³/h)

(Common type omitted) Flow passage components are of stainless steel 304 or 316L)

Light vertical multistage centrifugal pump

CDL/CDLF 200



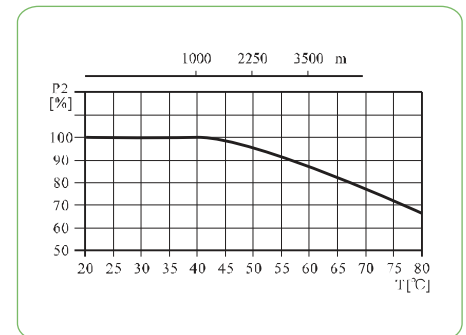
## Max working pressure

| Model                                                           | Max.pressure(bar) |
|-----------------------------------------------------------------|-------------------|
| CDL1,2,3,4,Flange                                               | 25                |
| CDL(F)1,2,3,4,Over Flange                                       | 16                |
| CDLF1,2,3,4<br>Flange, cutting ferrule joint, pipe thread       | 25                |
| CDL8,10,12,15,20 Flange                                         | 25                |
| CDL(F)8 Over Flange                                             | 16                |
| CDLF8,10,12,15,20<br>Flange, cutting ferrule joint, pipe thread | 25                |
| CDL32                                                           |                   |
| 32-10-1~32-80                                                   | 16(30)            |
| 32-90-2~32-160                                                  | 30                |
| CDLF32                                                          |                   |
|                                                                 | 30                |
| CDL42                                                           |                   |
| 42-10-1~42-60-2                                                 | 16(30)            |
| 42-60~42-90                                                     | 25(30)            |
| 42-100-2~42-130-2                                               | 30                |
| CDLF42                                                          |                   |
| 42-10-1~42-90                                                   | 25(30)            |
| 42-100-2~42-130-2                                               | 30                |
| CDL 65                                                          |                   |
| 65-10-1~65-50-2                                                 | 16(25)            |
| 65-50-1~65-80-1                                                 | 25                |
| CDL85                                                           |                   |
| 85-10-1~85-40-2                                                 | 16(25)            |
| 85-40~85-60                                                     | 25                |
| CDLF65,85                                                       |                   |
|                                                                 | 25                |
| CDL,CDLF 120,150,200                                            |                   |
|                                                                 | 20                |

Pumps with pressure inside brackets need to specify especially.

## Max.Ambient temperature

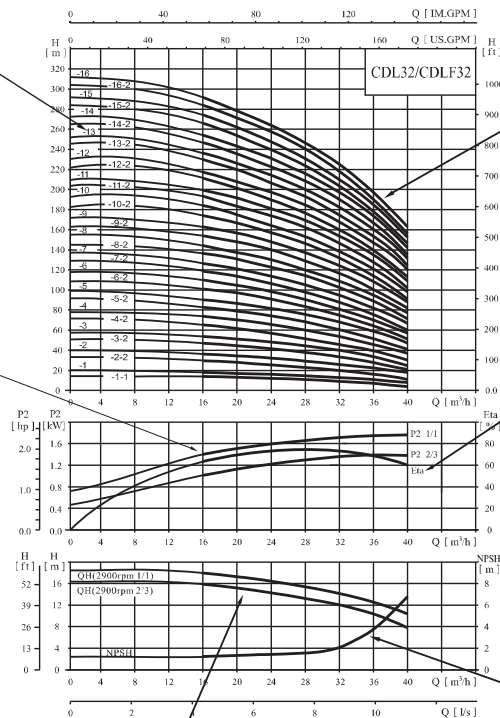
When the pump operates under ambient temperature higher than 40°C or under altitude higher than 1000m, because of low air density and poor cooling effects, the motor output power P2 will be decreased to certain extent. If the pump is operated under the above-said conditions, it should be equipped with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



## Curve illustration

Stage  
First number:  
Stage × 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)



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

## 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 to ISO9906:2012 Grade 3B.
- 3、 Measurement is done with 20°C air-free water, kinematic viscosity of 1mm²/s.

4、 The operation of pump shall refer to the performance region indicated by the thickened curve to prevent over-heating 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 cavitation will occur. To avoid cavitation, 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

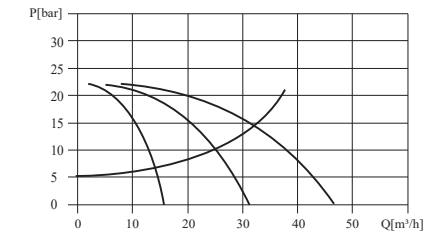
If the calculated result  $H$  is positive, the pump may run under the max. suction stroke  $H$ .

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

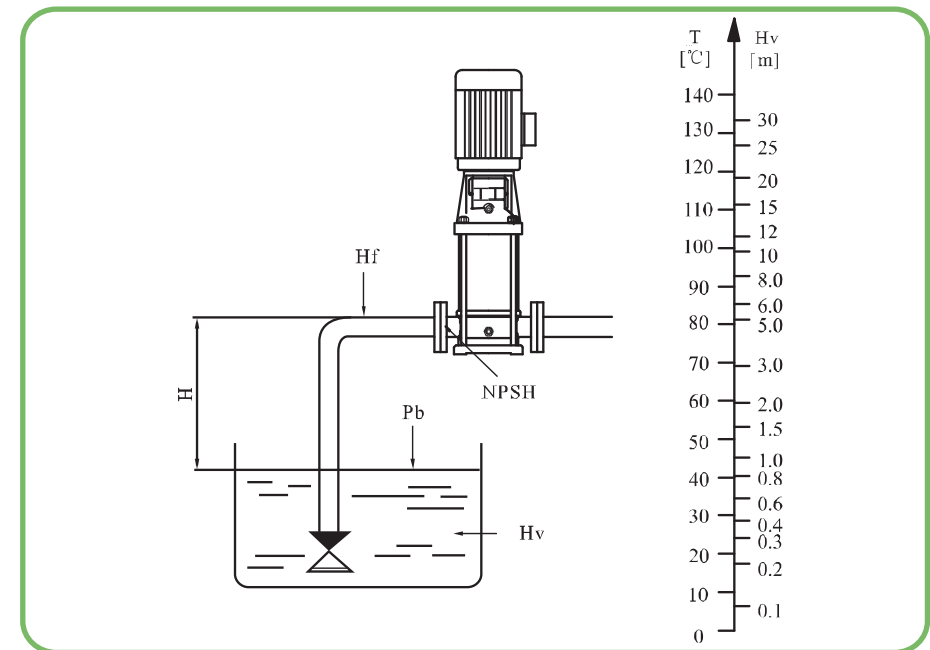
## Operation in parallel

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 flow system.

Increasing the possibility of water supply when the pump is in failure. Because in case of pump failure, only part of the system flow is effected.



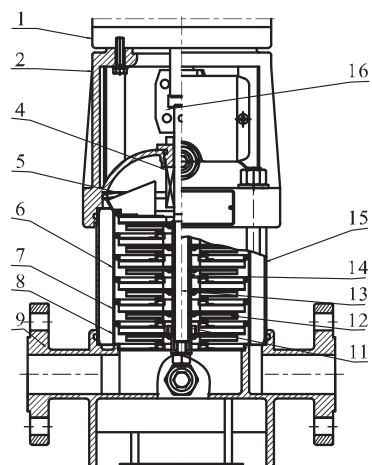
Two pumps or more can be connected in parallel running if necessary.



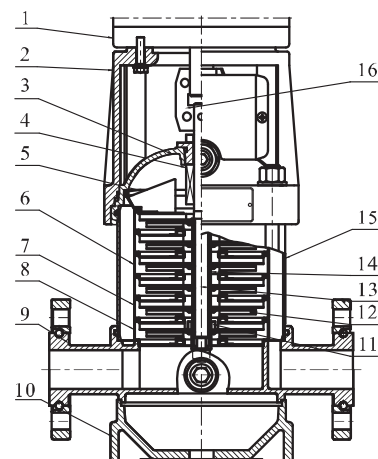
Check and ensure that the pump is not at cavitation state.

## Section drawing CDL/CDLF1,2,3,4

## Material CDL/CDLF1,2,3,4



CDL

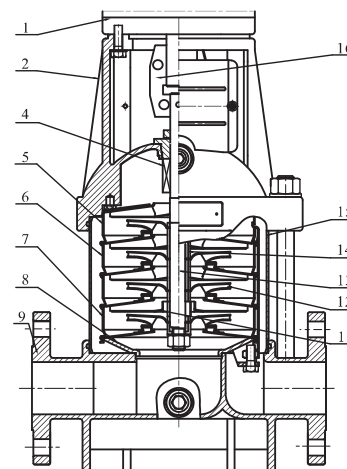


CDLF

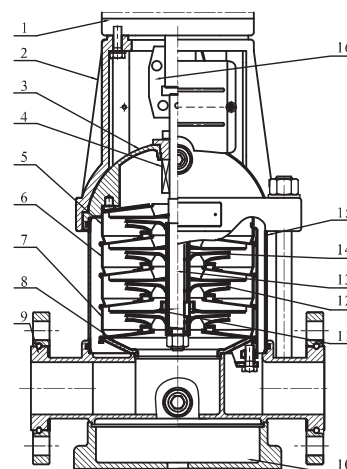
| No.  | Name                     | Material         | AISI/ASTM           |
|------|--------------------------|------------------|---------------------|
| 1    | Motor                    |                  |                     |
| 2    | Pump head                | Cast iron        | ASTM25B             |
| 4    | Mechanical seal          |                  |                     |
| 5    | Top diffuser             | Stainless steel  | AISI304             |
| 6    | Diffuser                 | Stainless steel  | AISI304             |
| 7    | Support diffuser         | Stainless steel  | AISI304             |
| 8    | Inducer                  | Stainless steel  | AISI304             |
| 11   | Bearing                  | Tungsten carbide |                     |
| 12   | Impeller                 | Stainless steel  | AISI304             |
| 13   | Shaft                    | Stainless steel  | AISI304<br>AISI316L |
| 14   | Impeller sleeve          | Stainless steel  | AISI304             |
| 15   | Cylinder                 | Stainless steel  | AISI304             |
| 16   | Coupling                 | Carbon steel     |                     |
| CDLF |                          |                  |                     |
| 3    | Seal base                | Stainless steel  | AISI304             |
| 9    | Inlet and outlet chamber | Stainless steel  | AISI304             |
| 10   | Base plate               | Cast iron        | ASTM25B             |
| CDL  |                          |                  |                     |
| 9    | Inlet and outlet chamber | Cast iron        | ASTM25B             |

## Section drawing CDLF8,10,12,15,20

## Material CDL/CDLF8,10,12,15,20



CDL

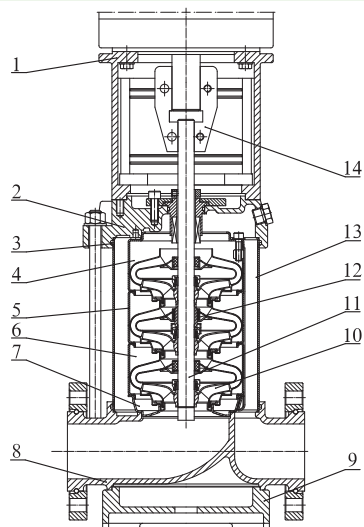


CDLF

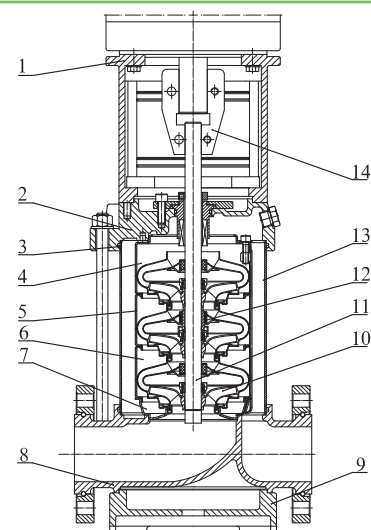
| No.  | Name                     | Material         | AISI/ASTM           |
|------|--------------------------|------------------|---------------------|
| 1    | Motor                    |                  |                     |
| 2    | Pump head                | Cast iron        | ASTM25B             |
| 4    | Mechanical seal          |                  |                     |
| 5    | Top diffuser             | Stainless steel  | AISI304             |
| 6    | Diffuser                 | Stainless steel  | AISI304             |
| 7    | Support diffuser         | Stainless steel  | AISI304             |
| 8    | Inducer                  | Stainless steel  | AISI304             |
| 11   | Bearing                  | Tungsten carbide |                     |
| 12   | Impeller                 | Stainless steel  | AISI304             |
| 13   | Shaft                    | Stainless steel  | AISI304<br>AISI316L |
| 14   | Impeller sleeve          | Stainless steel  | AISI304             |
| 15   | Cylinder                 | Stainless steel  | AISI304             |
| 16   | Coupling                 | Carbon steel     |                     |
| CDLF |                          |                  |                     |
| 3    | Seal base                | Stainless steel  | AISI304             |
| 9    | Inlet and outlet chamber | Stainless steel  | AISI304             |
| 10   | Base plate               | Cast iron        | ASTM25B             |
| CDL  |                          |                  |                     |
| 9    | Inlet and outlet chamber | Cast iron        | ASTM25B             |

## Section drawing CDL/CDLF32,42,65,85

## Material CDL/CDLF32,42,65,85



CDL

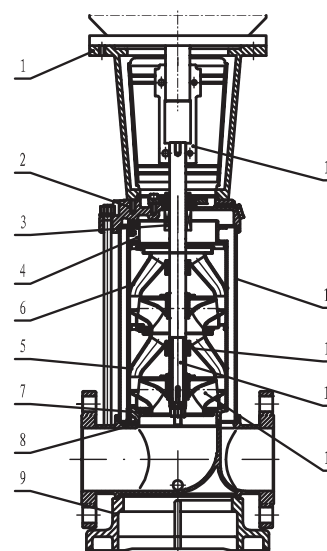


CDLF

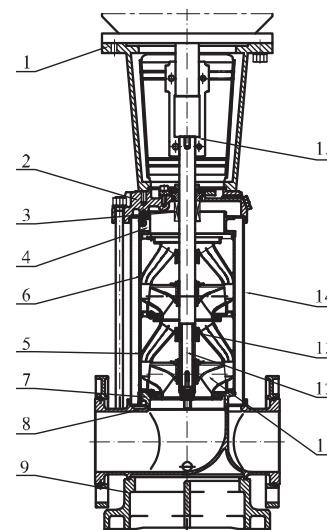
| NO.  | Name                     | Material         | AISI/ASTM                      |
|------|--------------------------|------------------|--------------------------------|
| 1    | Bracket                  | Cast iron        | ASTM25B                        |
| 3    | Mechanical seal          |                  |                                |
| 4    | Top diffuser             | Stainless steel  | AISI304                        |
| 5    | Support diffuser         | Stainless steel  | AISI304                        |
| 6    | Diffuser                 | 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  | AISI316L<br>AISI304<br>AISI431 |
| 13   | Intermediate bearing     | Tungsten carbide |                                |
| 14   | Cylinder                 | Stainless steel  | AISI304                        |
| 15   | Coupling                 | Carbon steel     |                                |
|      | Rubber parts             | NBR              |                                |
| CDL  |                          |                  |                                |
| 2    | Pump head                | Cast iron        | ASTM25B                        |
| 8    | Inlet and outlet chamber | Cast iron        | ASTM25B                        |
| CDLF |                          |                  |                                |
| 2    | Pump head                | Stainless steel  | AISI304                        |
| 8    | Inlet and outlet chamber | Stainless steel  | AISI304                        |

## Section drawing CDL/CDLF120,150,200

## Material CDL/CDLF120,150,200



CDL

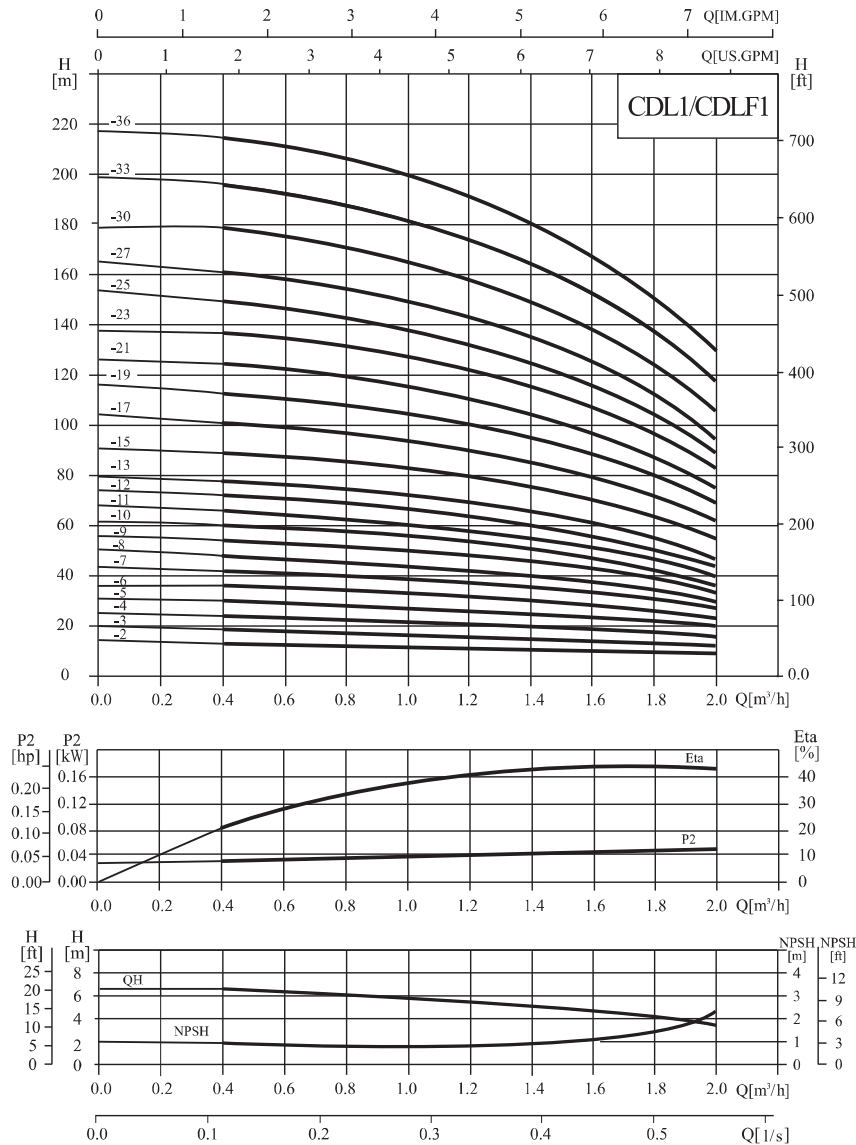


CDLF

| NO.  | Name                     | Material         | AISI/ASTM     |
|------|--------------------------|------------------|---------------|
| 1    | Bracket                  | Cast iron        | ASTM25B       |
| 3    | Mechanical seal          |                  |               |
| 4    | Top diffuser             | Stainless steel  | AISI304       |
| 5    | Support diffuser         | Stainless steel  | AISI304       |
| 6    | Diffuser                 | Stainless steel  | AISI304       |
| 7    | Inducer                  | Stainless steel  | AISI304       |
| 9    | Base plate               | Cast iron        | ASTM 80-55-06 |
| 11   | Impeller                 | Stainless steel  | AISI304       |
| 12   | Shaft                    | Stainless steel  | AISI304       |
| 13   | Bearing                  | Tungsten carbide |               |
| 14   | Cylinder                 | Stainless steel  | AISI304       |
| 15   | Coupling                 | Carbon steel     |               |
|      | Rubber parts             | NBR              |               |
| CDL  |                          |                  |               |
| 2    | Pump head                | Cast iron        | ASTM 80-55-06 |
| 8    | Inlet and outlet chamber | Cast iron        | ASTM 80-55-06 |
| CDLF |                          |                  |               |
| 2    | Pump head                | Stainless steel  | AISI304       |
| 8    | Inlet and outlet chamber | Stainless steel  | AISI304       |

## Performance curve

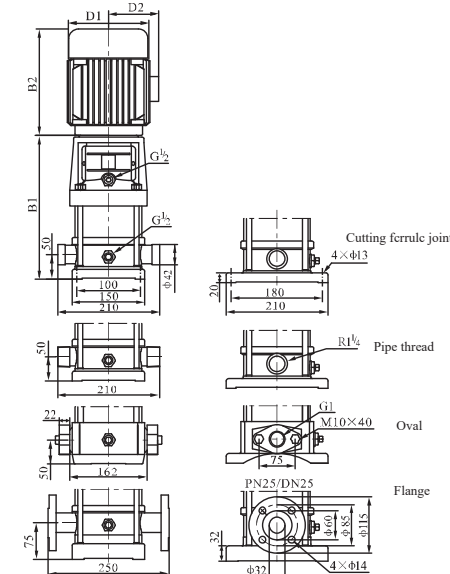
ISO9906 Annex A 2900rpm



## Performance table

| Model   | Driving motor (kW) | Q (m³/h) | 0.4 | 0.6  | 0.8  | 1.0  | 1.2  | 1.4  | 1.6 | 1.8 | 2.0 |
|---------|--------------------|----------|-----|------|------|------|------|------|-----|-----|-----|
| CDL1-2  | 0.37               | H (m)    | 13  | 12.5 | 12   | 11.5 | 11   | 10.5 | 10  | 9.5 | 9   |
| CDL1-3  | 0.37               |          | 19  | 18   | 17.5 | 17   | 16.5 | 16   | 15  | 14  | 12  |
| CDL1-4  | 0.37               |          | 24  | 23.5 | 23   | 22.5 | 21.5 | 21   | 19  | 18  | 16  |
| CDL1-5  | 0.37               |          | 30  | 29.6 | 29   | 28   | 27   | 26   | 24  | 22  | 20  |
| CDL1-6  | 0.37               |          | 36  | 35.5 | 35   | 33.5 | 33   | 31   | 28  | 26  | 23  |
| CDL1-7  | 0.37               |          | 42  | 41   | 40.5 | 39   | 38   | 36   | 33  | 30  | 27  |
| CDL1-8  | 0.55               |          | 48  | 47   | 46   | 45   | 43   | 41   | 38  | 34  | 30  |
| CDL1-9  | 0.55               |          | 54  | 53   | 52   | 51   | 49   | 46   | 43  | 39  | 33  |
| CDL1-10 | 0.55               |          | 60  | 59   | 58   | 57   | 54   | 51   | 48  | 43  | 36  |
| CDL1-11 | 0.55               |          | 66  | 65   | 63   | 61   | 59   | 56   | 52  | 47  | 40  |
| CDL1-12 | 0.75               |          | 72  | 71   | 69   | 67   | 64   | 61   | 57  | 51  | 44  |
| CDL1-13 | 0.75               |          | 78  | 77   | 75   | 73   | 69   | 66   | 62  | 55  | 47  |
| CDL1-15 | 0.75               |          | 89  | 88   | 86   | 84   | 79   | 76   | 71  | 63  | 55  |
| CDL1-17 | 1.1                |          | 101 | 99   | 97   | 95   | 89   | 86   | 80  | 71  | 62  |
| CDL1-19 | 1.1                |          | 113 | 110  | 108  | 106  | 99   | 96   | 89  | 79  | 69  |
| CDL1-21 | 1.1                |          | 124 | 122  | 120  | 117  | 110  | 106  | 98  | 87  | 75  |
| CDL1-23 | 1.1                |          | 137 | 133  | 131  | 128  | 121  | 116  | 107 | 96  | 82  |
| CDL1-25 | 1.5                |          | 149 | 145  | 143  | 139  | 131  | 126  | 116 | 104 | 89  |
| CDL1-27 | 1.5                |          | 161 | 157  | 155  | 150  | 141  | 136  | 125 | 112 | 95  |
| CDL1-30 | 1.5                |          | 178 | 175  | 171  | 166  | 157  | 150  | 139 | 124 | 106 |
| CDL1-33 | 2.2                |          | 196 | 192  | 188  | 183  | 173  | 165  | 154 | 137 | 118 |
| CDL1-36 | 2.2                |          | 214 | 210  | 205  | 200  | 190  | 181  | 169 | 151 | 130 |

## Installation sketch



## Size and weight

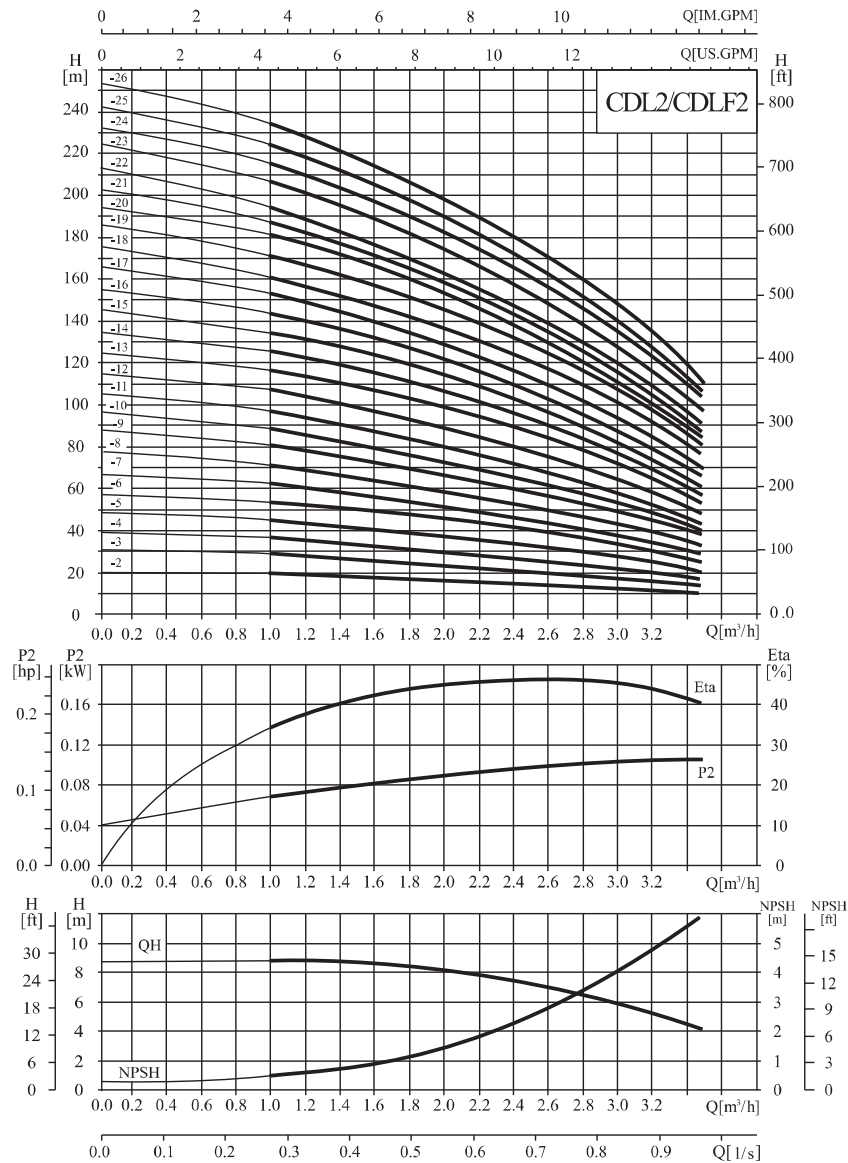
| Model   | Size (mm) |     |       |     |     | Weight (kg) |
|---------|-----------|-----|-------|-----|-----|-------------|
|         | B1        | B2  | B1+B2 | D1  | D2  |             |
| CDL1-2  | 258       | 225 | 483   | 148 | 117 | 23          |
| CDL1-3  | 276       | 225 | 501   | 148 | 117 | 23          |
| CDL1-4  | 294       | 225 | 519   | 148 | 117 | 24          |
| CDL1-5  | 312       | 225 | 537   | 148 | 117 | 24          |
| CDL1-6  | 330       | 225 | 555   | 148 | 117 | 25          |
| CDL1-7  | 348       | 225 | 573   | 148 | 117 | 25          |
| CDL1-8  | 366       | 225 | 591   | 148 | 117 | 28          |
| CDL1-9  | 384       | 225 | 609   | 148 | 117 | 28          |
| CDL1-10 | 402       | 225 | 627   | 148 | 117 | 29          |
| CDL1-11 | 420       | 225 | 645   | 148 | 117 | 30          |
| CDL1-12 | 448       | 245 | 693   | 170 | 142 | 33          |
| CDL1-13 | 466       | 245 | 711   | 170 | 142 | 34          |
| CDL1-15 | 502       | 245 | 747   | 170 | 142 | 35          |
| CDL1-17 | 538       | 245 | 783   | 170 | 142 | 36          |
| CDL1-19 | 574       | 245 | 819   | 170 | 142 | 37          |
| CDL1-21 | 610       | 245 | 855   | 170 | 142 | 38          |
| CDL1-23 | 646       | 245 | 891   | 170 | 142 | 38          |
| CDL1-25 | 692       | 290 | 982   | 190 | 155 | 44          |
| CDL1-27 | 728       | 290 | 1018  | 190 | 155 | 45          |
| CDL1-30 | 782       | 290 | 1072  | 190 | 155 | 46          |
| CDL1-33 | 836       | 290 | 1126  | 190 | 155 | 48          |
| CDL1-36 | 890       | 290 | 1180  | 190 | 155 | 49          |

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

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

Performance curve

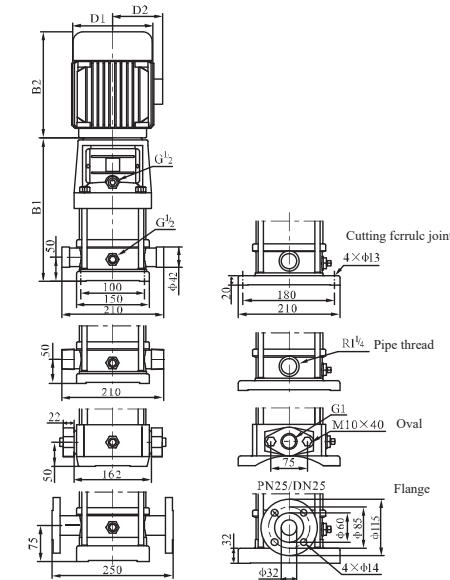
ISO9906 Annex A 2900rpm



Performance table

| Model   | Driving motor (kW) | Q (m³/h) | 1   | 1.2 | 1.6 | 2.0 | 2.4 | 2.8 | 3.2 | 3.5 |
|---------|--------------------|----------|-----|-----|-----|-----|-----|-----|-----|-----|
| CDL2-2  | 0.37               | H (m)    | 18  | 17  | 16  | 15  | 13  | 12  | 10  | 8   |
| CDL2-3  | 0.37               |          | 27  | 26  | 24  | 22  | 20  | 18  | 15  | 12  |
| CDL2-4  | 0.55               |          | 36  | 35  | 33  | 30  | 26  | 24  | 20  | 16  |
| CDL2-5  | 0.55               |          | 45  | 43  | 40  | 37  | 33  | 30  | 24  | 20  |
| CDL2-6  | 0.75               |          | 53  | 52  | 50  | 45  | 40  | 36  | 30  | 24  |
| CDL2-7  | 0.75               |          | 63  | 61  | 57  | 52  | 47  | 41  | 35  | 28  |
| CDL2-9  | 1.1                |          | 80  | 78  | 73  | 67  | 61  | 54  | 45  | 37  |
| CDL2-11 | 1.1                |          | 98  | 95  | 89  | 82  | 73  | 64  | 54  | 44  |
| CDL2-13 | 1.5                |          | 116 | 114 | 106 | 98  | 89  | 78  | 65  | 52  |
| CDL2-15 | 1.5                |          | 134 | 130 | 123 | 112 | 100 | 90  | 73  | 60  |
| CDL2-18 | 2.2                |          | 161 | 157 | 148 | 136 | 121 | 108 | 91  | 76  |
| CDL2-22 | 2.2                |          | 197 | 192 | 180 | 165 | 148 | 130 | 110 | 90  |
| CDL2-26 | 3.0                |          | 232 | 228 | 214 | 198 | 179 | 158 | 130 | 110 |

Installation sketch



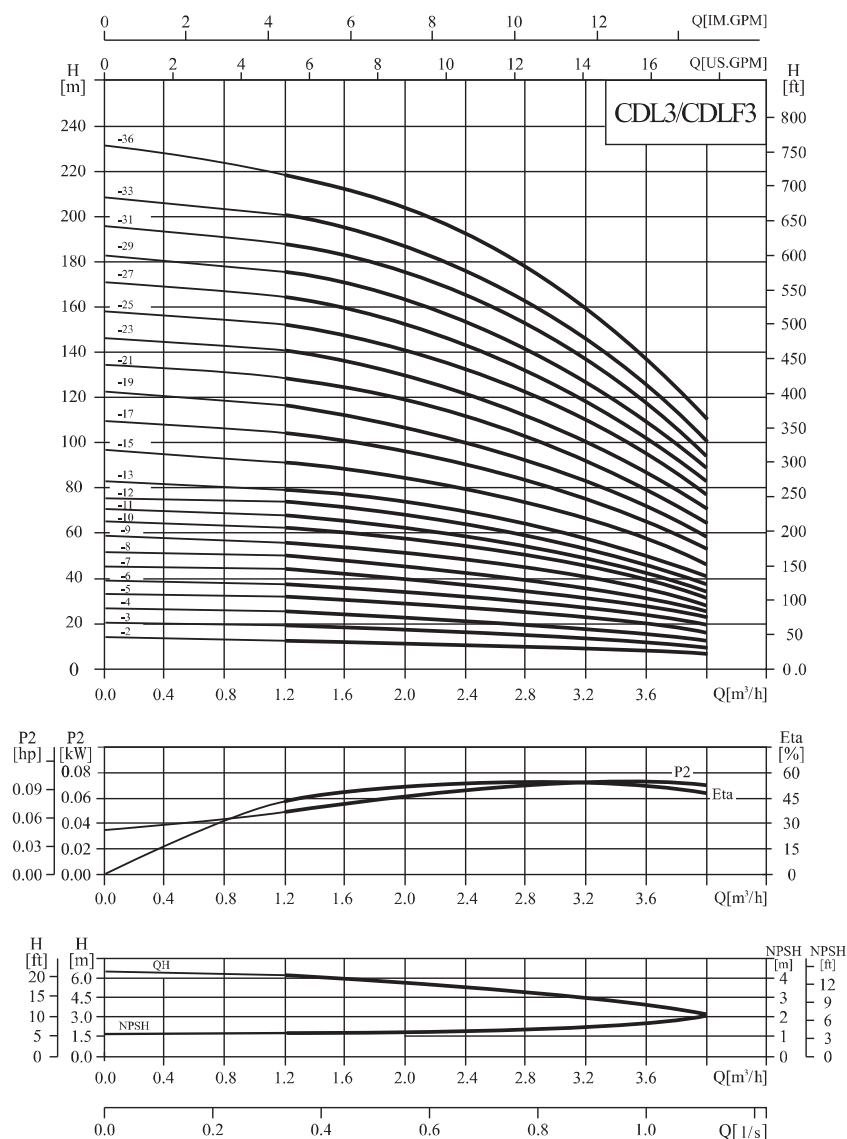
Size and weight

| Model   | Size (mm) |     |       |     |     | Weight (kg) |
|---------|-----------|-----|-------|-----|-----|-------------|
|         | B1        | B2  | B1+B2 | D1  | D2  |             |
| CDL2-2  | 258       | 225 | 483   | 148 | 117 | 24          |
| CDL2-3  | 276       | 225 | 501   | 148 | 117 | 24          |
| CDL2-4  | 294       | 225 | 519   | 148 | 117 | 25          |
| CDL2-5  | 312       | 225 | 537   | 148 | 117 | 26          |
| CDL2-6  | 340       | 245 | 585   | 170 | 142 | 30          |
| CDL2-7  | 358       | 245 | 603   | 170 | 142 | 30          |
| CDL2-9  | 394       | 245 | 639   | 170 | 142 | 33          |
| CDL2-11 | 430       | 245 | 675   | 170 | 142 | 34          |
| CDL2-13 | 476       | 290 | 766   | 190 | 155 | 40          |
| CDL2-15 | 512       | 290 | 802   | 190 | 155 | 42          |
| CDL2-18 | 566       | 290 | 856   | 190 | 155 | 46          |
| CDL2-22 | 638       | 290 | 928   | 190 | 155 | 47          |
| CDL2-26 | 720       | 345 | 1065  | 197 | 165 | 53          |

CDL2-18 ~2-26 sub-connection of pipeline has no oval flange connection.  
The overall dimensions of the single-phase motor and explosion-proof motor are a little different. Pls contact us for details.

## Performance curve

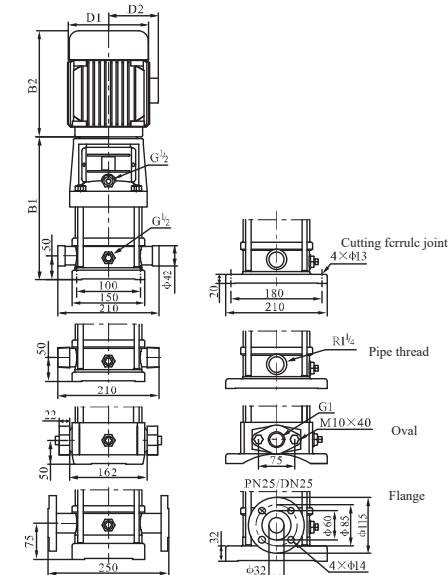
ISO9906 Annex A 2900rpm



## Performance table

| Model   | Driving motor (kW) | Q (m³/h) | 1.2  | 1.6  | 2.0  | 2.4  | 2.8 | 3.0 | 3.2 | 3.6 | 4.0 |
|---------|--------------------|----------|------|------|------|------|-----|-----|-----|-----|-----|
| CDL3-2  | 0.37               | H (m)    | 12.5 | 11.5 | 11   | 10.5 | 10  | 9   | 8   | 7   | 6   |
| CDL3-3  | 0.37               |          | 19   | 18.5 | 17.5 | 16.5 | 15  | 14  | 13  | 11  | 9   |
| CDL3-4  | 0.37               |          | 25   | 24   | 23   | 21.5 | 20  | 19  | 18  | 15  | 12  |
| CDL3-5  | 0.37               |          | 31   | 30   | 29   | 27   | 25  | 23  | 22  | 19  | 16  |
| CDL3-6  | 0.55               |          | 36   | 35   | 34   | 32   | 30  | 28  | 27  | 23  | 19  |
| CDL3-7  | 0.55               |          | 43   | 41   | 39   | 37   | 34  | 32  | 31  | 27  | 22  |
| CDL3-8  | 0.75               |          | 49   | 47   | 45   | 43   | 39  | 37  | 35  | 31  | 25  |
| CDL3-9  | 0.75               |          | 55   | 53   | 51   | 48   | 45  | 42  | 40  | 35  | 28  |
| CDL3-10 | 0.75               |          | 61   | 59   | 57   | 54   | 50  | 47  | 45  | 39  | 31  |
| CDL3-11 | 1.1                |          | 67   | 64   | 61   | 58   | 54  | 51  | 49  | 42  | 34  |
| CDL3-12 | 1.1                |          | 73   | 70   | 67   | 63   | 58  | 55  | 52  | 45  | 37  |
| CDL3-13 | 1.1                |          | 78   | 76   | 73   | 69   | 64  | 60  | 57  | 49  | 40  |
| CDL3-15 | 1.1                |          | 90   | 88   | 84   | 79   | 73  | 69  | 66  | 57  | 46  |
| CDL3-17 | 1.5                |          | 103  | 100  | 96   | 90   | 83  | 79  | 75  | 64  | 52  |
| CDL3-19 | 1.5                |          | 115  | 112  | 107  | 100  | 92  | 88  | 83  | 72  | 58  |
| CDL3-21 | 2.2                |          | 128  | 124  | 119  | 112  | 102 | 98  | 91  | 79  | 64  |
| CDL3-23 | 2.2                |          | 140  | 135  | 130  | 122  | 112 | 107 | 100 | 86  | 70  |
| CDL3-25 | 2.2                |          | 151  | 147  | 141  | 131  | 122 | 116 | 109 | 94  | 76  |
| CDL3-27 | 2.2                |          | 164  | 159  | 152  | 143  | 132 | 124 | 117 | 101 | 82  |
| CDL3-29 | 2.2                |          | 175  | 170  | 163  | 153  | 142 | 133 | 126 | 109 | 88  |
| CDL3-31 | 3.0                |          | 187  | 182  | 175  | 165  | 153 | 142 | 135 | 116 | 94  |
| CDL3-33 | 3.0                |          | 199  | 194  | 187  | 176  | 163 | 151 | 145 | 125 | 100 |
| CDL3-36 | 3.0                |          | 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       | 225 | 483   | 148 | 117 | 23          |
| CDL3-3  | 276       | 225 | 501   | 148 | 117 | 23          |
| CDL3-4  | 294       | 225 | 519   | 148 | 117 | 24          |
| CDL3-5  | 312       | 225 | 537   | 148 | 117 | 24          |
| CDL3-6  | 330       | 225 | 555   | 148 | 117 | 25          |
| CDL3-7  | 348       | 225 | 573   | 148 | 117 | 26          |
| CDL3-8  | 376       | 245 | 621   | 170 | 142 | 30          |
| CDL3-9  | 394       | 245 | 639   | 170 | 142 | 31          |
| CDL3-10 | 412       | 245 | 657   | 170 | 142 | 32          |
| CDL3-11 | 430       | 245 | 675   | 170 | 142 | 32          |
| CDL3-12 | 448       | 245 | 693   | 170 | 142 | 33          |
| CDL3-13 | 466       | 245 | 711   | 170 | 142 | 34          |
| CDL3-15 | 502       | 245 | 747   | 170 | 142 | 35          |
| CDL3-17 | 548       | 290 | 838   | 190 | 155 | 41          |
| CDL3-19 | 584       | 290 | 874   | 190 | 155 | 42          |
| CDL3-21 | 620       | 290 | 910   | 190 | 155 | 45          |
| CDL3-23 | 656       | 290 | 946   | 190 | 155 | 46          |
| CDL3-25 | 692       | 290 | 982   | 190 | 155 | 47          |
| CDL3-27 | 728       | 290 | 1018  | 190 | 155 | 48          |
| CDL3-29 | 764       | 290 | 1054  | 190 | 155 | 49          |
| CDL3-31 | 810       | 345 | 1155  | 197 | 165 | 57          |
| CDL3-33 | 846       | 345 | 1191  | 197 | 165 | 58          |
| CDL3-36 | 900       | 345 | 1245  | 197 | 165 | 60          |

CDL3-25 ~3-36 sub-connection of pipeline has no oval flange connection.

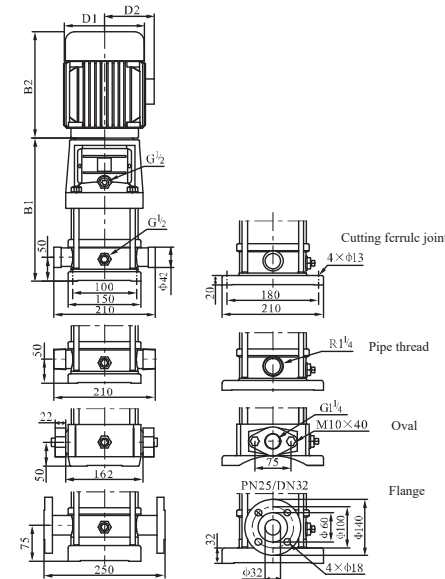
The overall dimensions of the single-phase motor and explosion-proof motor are a little different. Pls contact us for details.

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

## Size and weight

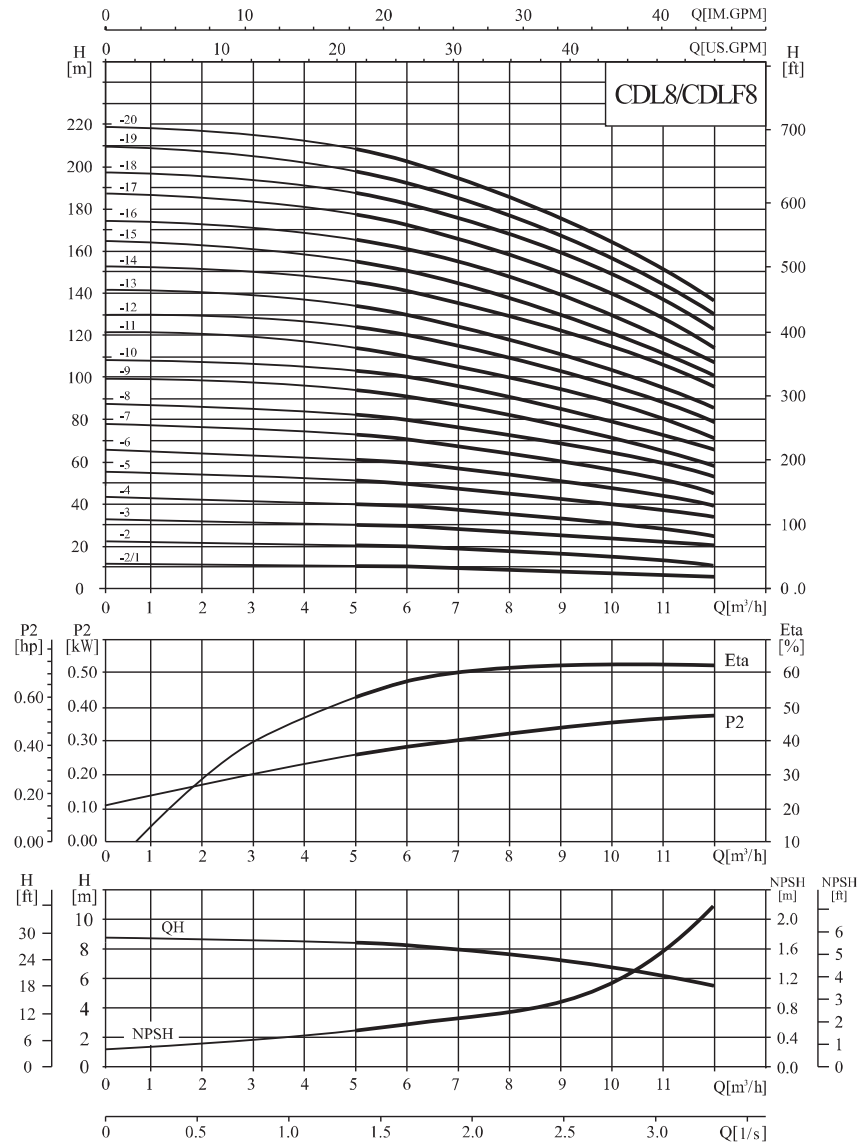


| Model   | Size (mm) |     |       |     |     | Weight (kg) |
|---------|-----------|-----|-------|-----|-----|-------------|
|         | B1        | B2  | B1+B2 | D1  | D2  |             |
| CDL4-2  | 276       | 225 | 501   | 148 | 117 | 22          |
| CDL4-3  | 303       | 225 | 528   | 148 | 117 | 24          |
| CDL4-4  | 340       | 245 | 585   | 170 | 142 | 30          |
| CDL4-5  | 367       | 245 | 612   | 170 | 142 | 32          |
| CDL4-6  | 394       | 245 | 639   | 170 | 142 | 33          |
| CDL4-7  | 431       | 290 | 721   | 190 | 155 | 39          |
| CDL4-8  | 458       | 290 | 748   | 190 | 155 | 40          |
| CDL4-10 | 512       | 290 | 802   | 190 | 155 | 43          |
| CDL4-12 | 566       | 290 | 856   | 190 | 155 | 44          |
| CDL4-14 | 630       | 345 | 975   | 197 | 165 | 52          |
| CDL4-16 | 684       | 345 | 1029  | 197 | 165 | 54          |
| CDL4-19 | 765       | 355 | 1120  | 230 | 188 | 56          |
| CDL4-22 | 846       | 355 | 1201  | 230 | 188 | 59          |

CDL4-19 ~4-22 sub-connection of pipeline has no oval flange connection.  
The overall dimensions of the single-phase motor and explosion-proof motor are a little different. Pls contact us for details.

## Performance curve

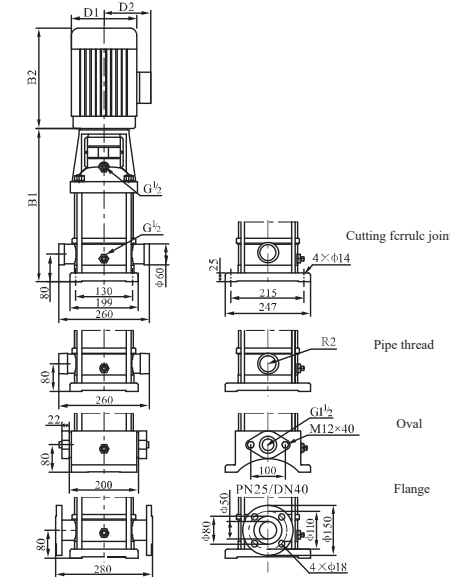
ISO9906 Annex A 2900rpm



## Performance table

| Model    | Driving motor (kW) | Q (m³/h) | 5   | 6    | 7    | 8   | 9   | 10  | 11  | 12  |
|----------|--------------------|----------|-----|------|------|-----|-----|-----|-----|-----|
| CDL8-2/1 | 0.75               | H (m)    | 10  | 9.5  | 9.3  | 9   | 8.5 | 8   | 7   | 6   |
| CDL8-2   | 0.75               |          | 20  | 19.5 | 19   | 18  | 17  | 16  | 14  | 13  |
| CDL8-3   | 1.1                |          | 30  | 29.5 | 28.5 | 27  | 25  | 24  | 21  | 19  |
| CDL8-4   | 1.5                |          | 41  | 39.5 | 38   | 36  | 34  | 32  | 28  | 26  |
| CDL8-5   | 2.2                |          | 52  | 50   | 48   | 45  | 42  | 40  | 36  | 32  |
| CDL8-6   | 2.2                |          | 62  | 60   | 57   | 54  | 51  | 48  | 43  | 39  |
| CDL8-8   | 3.0                |          | 83  | 80   | 77   | 73  | 69  | 65  | 58  | 52  |
| CDL8-10  | 4.0                |          | 104 | 100  | 97   | 92  | 87  | 81  | 73  | 65  |
| CDL8-12  | 4.0                |          | 124 | 120  | 116  | 111 | 104 | 92  | 87  | 78  |
| CDL8-14  | 5.5                |          | 145 | 141  | 136  | 130 | 122 | 113 | 102 | 92  |
| CDL8-16  | 5.5                |          | 166 | 161  | 156  | 148 | 139 | 130 | 118 | 106 |
| CDL8-18  | 7.5                |          | 187 | 182  | 175  | 167 | 157 | 146 | 134 | 120 |
| CDL8-20  | 7.5                |          | 208 | 202  | 195  | 186 | 175 | 163 | 150 | 135 |

## Installation sketch



## Size and weight

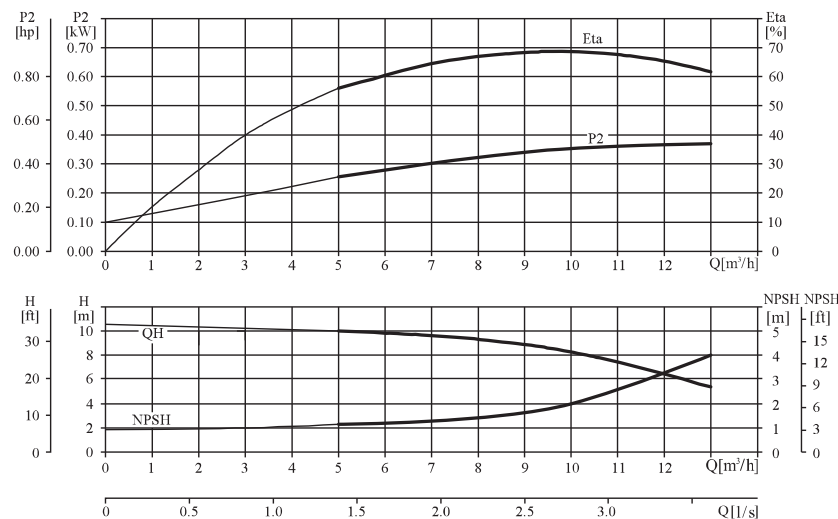
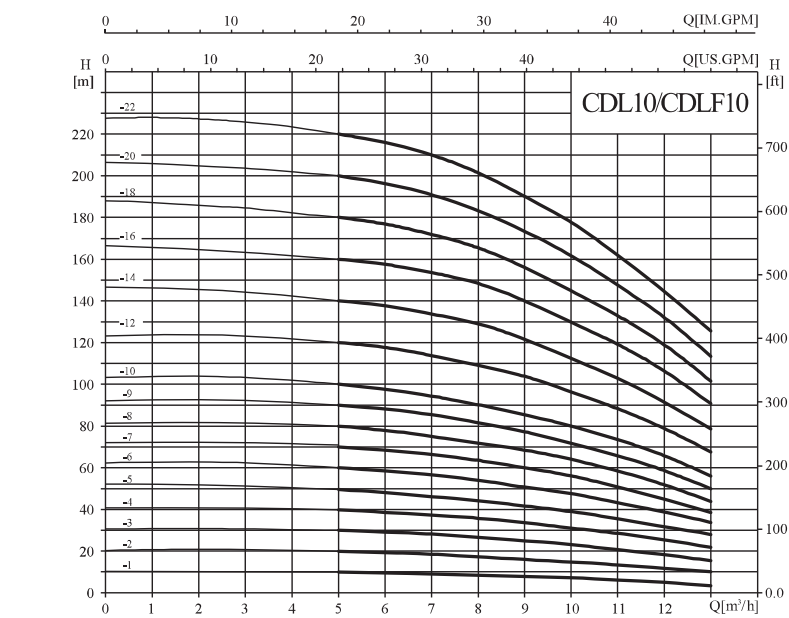
| Model    | Size (mm) |     |       |     |     | Weight (kg) |
|----------|-----------|-----|-------|-----|-----|-------------|
|          | B1        | B2  | B1+B2 | D1  | D2  |             |
| CDL8-2/1 | 347       | 245 | 592   | 170 | 142 | 33          |
| CDL8-2   | 347       | 245 | 592   | 170 | 142 | 33          |
| CDL8-3   | 377       | 245 | 622   | 170 | 142 | 35          |
| CDL8-4   | 417       | 290 | 707   | 190 | 155 | 42          |
| CDL8-5   | 447       | 290 | 737   | 190 | 155 | 46          |
| CDL8-6   | 477       | 290 | 767   | 190 | 155 | 47          |
| CDL8-8   | 547       | 345 | 892   | 197 | 165 | 55          |
| CDL8-10  | 607       | 355 | 962   | 230 | 188 | 67          |
| CDL8-12  | 667       | 355 | 1022  | 230 | 188 | 70          |
| CDL8-14  | 747       | 390 | 1137  | 260 | 208 | 85          |
| CDL8-16  | 807       | 390 | 1197  | 260 | 208 | 88          |
| CDL8-18  | 867       | 390 | 1257  | 260 | 208 | 98          |
| CDL8-20  | 927       | 390 | 1317  | 260 | 208 | 99          |

CDL8-14 ~8-20 sub-connection of pipeline has no oval flange connection.

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

## Performance curve

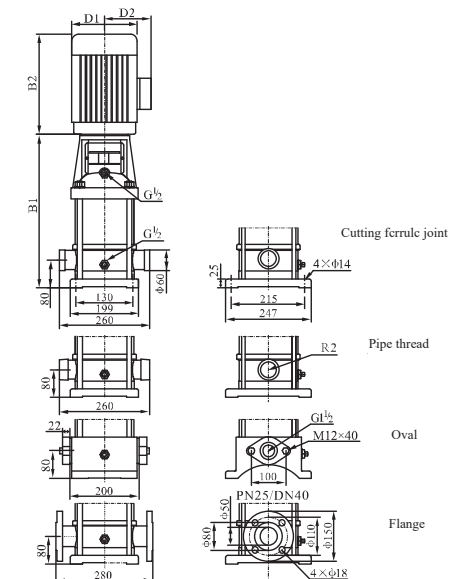
ISO9906 Annex A 2900rpm



## Performance table

| Model    | Driving motor<br>(kW) | Q<br>(m <sup>3</sup> /h) | 5    | 6    | 7    | 8   | 9   | 10  | 11   | 12   | 13  |
|----------|-----------------------|--------------------------|------|------|------|-----|-----|-----|------|------|-----|
| CDL10-1  | 0.75                  | H<br>(m)                 | 9.7  | 9.3  | 8.9  | 8.3 | 7.7 | 7   | 6    | 5    | 4   |
| CDL10-2  | 0.75                  |                          | 19.5 | 19   | 18   | 17  | 16  | 15  | 13.5 | 11.5 | 10  |
| CDL10-3  | 1.1                   |                          | 29.5 | 29   | 28   | 27  | 25  | 23  | 21   | 18   | 16  |
| CDL10-4  | 1.5                   |                          | 39.5 | 38.5 | 37.5 | 36  | 34  | 31  | 28   | 25   | 22  |
| CDL10-5  | 2.2                   |                          | 49.5 | 48.5 | 47   | 44  | 42  | 39  | 35   | 32   | 28  |
| CDL10-6  | 2.2                   |                          | 60   | 58   | 56   | 54  | 51  | 48  | 43   | 39   | 34  |
| CDL10-7  | 3                     |                          | 70   | 68   | 66   | 63  | 60  | 56  | 51   | 45   | 39  |
| CDL10-8  | 3                     |                          | 80   | 78   | 75   | 73  | 69  | 64  | 58   | 52   | 44  |
| CDL10-9  | 3                     |                          | 90   | 87   | 85   | 81  | 77  | 72  | 66   | 58   | 50  |
| CDL10-10 | 4                     |                          | 100  | 97   | 95   | 90  | 85  | 80  | 74   | 66   | 56  |
| CDL10-12 | 4                     |                          | 120  | 117  | 114  | 109 | 104 | 96  | 89   | 79   | 68  |
| CDL10-14 | 5.5                   |                          | 140  | 137  | 134  | 129 | 122 | 113 | 103  | 92   | 79  |
| CDL10-16 | 5.5                   |                          | 160  | 158  | 153  | 148 | 140 | 129 | 119  | 106  | 91  |
| CDL10-18 | 7.5                   |                          | 180  | 177  | 172  | 166 | 156 | 145 | 133  | 119  | 102 |
| CDL10-20 | 7.5                   |                          | 200  | 196  | 191  | 184 | 173 | 162 | 147  | 132  | 114 |
| CDL10-22 | 7.5                   |                          | 220  | 216  | 210  | 202 | 190 | 178 | 162  | 145  | 126 |

## Installation sketch



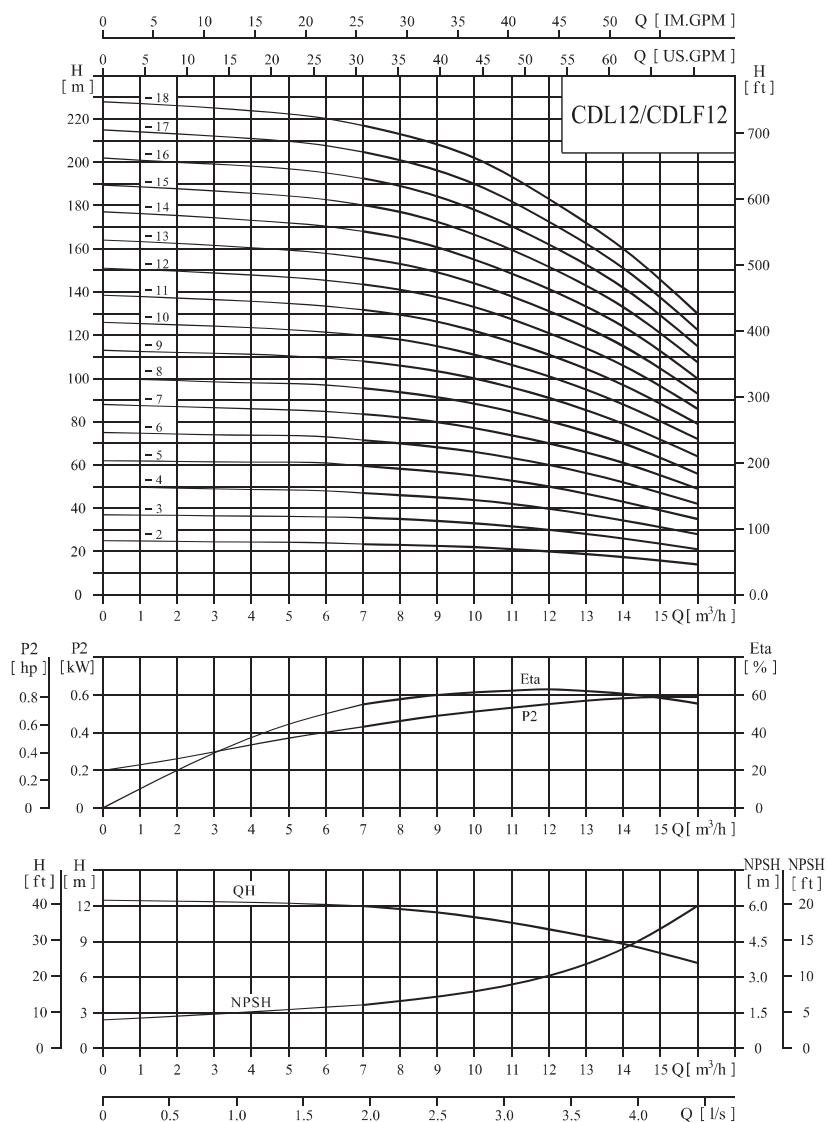
## Size and weight

| Model    | Size (mm) |     |       |     |     | Weight (kg) |
|----------|-----------|-----|-------|-----|-----|-------------|
|          | B1        | B2  | B1+B2 | D1  | D2  |             |
| CDLI0-1  | 347       | 245 | 592   | 170 | 142 | 40          |
| CDLI0-2  | 347       | 245 | 592   | 170 | 142 | 41          |
| CDLI0-3  | 377       | 245 | 622   | 170 | 142 | 43          |
| CDLI0-4  | 417       | 290 | 707   | 190 | 155 | 49          |
| CDLI0-5  | 447       | 290 | 737   | 190 | 155 | 53          |
| CDLI0-6  | 477       | 290 | 767   | 190 | 155 | 54          |
| CDLI0-7  | 517       | 345 | 862   | 197 | 165 | 64          |
| CDLI0-8  | 547       | 345 | 892   | 197 | 165 | 65          |
| CDLI0-9  | 577       | 345 | 922   | 197 | 165 | 66          |
| CDLI0-10 | 607       | 355 | 962   | 230 | 188 | 74          |
| CDLI0-12 | 667       | 355 | 1022  | 230 | 188 | 76          |
| CDLI0-14 | 747       | 390 | 1137  | 260 | 208 | 100         |
| CDLI0-16 | 807       | 390 | 1197  | 260 | 208 | 102         |
| CDLI0-18 | 867       | 390 | 1257  | 260 | 208 | 107         |
| CDLI0-20 | 927       | 390 | 1317  | 260 | 208 | 109         |
| CDLI0-22 | 987       | 390 | 1377  | 260 | 208 | 111         |

CDL10-16 ~10-22 sub-connection of pipeline has no oval flange connection.  
The overall dimensions of the single-phase motor and explosion-proof motor are a little different. Pls contact us for details.

## Performance curve

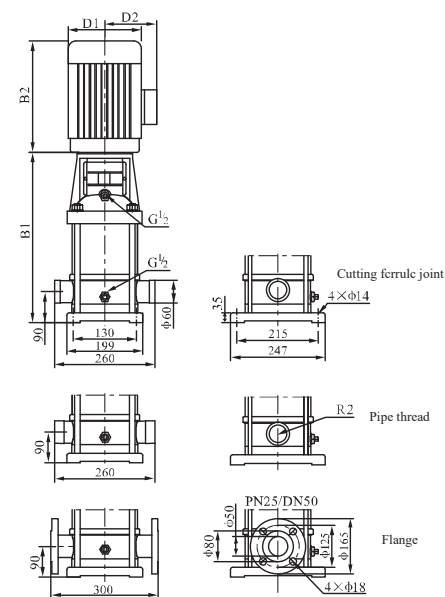
ISO9906 Annex A 2900rpm



## Performance table

| Model    | Driving motor (kW) | Q (m³/h) | 7     | 8   | 9     | 10  | 11    | 12  | 13    | 14  | 15    | 16  |
|----------|--------------------|----------|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|
| CDL12-2  | 1.5                | H (m)    | 23.5  | 23  | 22.5  | 22  | 21    | 20  | 18.5  | 17  | 15.5  | 14  |
| CDL12-3  | 2.2                |          | 35.5  | 35  | 34    | 33  | 31.5  | 30  | 28    | 26  | 23.5  | 21  |
| CDL12-4  | 3                  |          | 47    | 46  | 45    | 44  | 42    | 40  | 37    | 34  | 31    | 28  |
| CDL12-5  | 3                  |          | 59.5  | 58  | 56.5  | 55  | 52.5  | 50  | 46.5  | 43  | 39    | 35  |
| CDL12-6  | 4                  |          | 71.5  | 70  | 68    | 66  | 63    | 60  | 56    | 52  | 47    | 42  |
| CDL12-7  | 5.5                |          | 83.5  | 82  | 79.5  | 77  | 73.5  | 70  | 65.5  | 61  | 55    | 49  |
| CDL12-8  | 5.5                |          | 95.5  | 94  | 91    | 88  | 84    | 80  | 75    | 70  | 63    | 56  |
| CDL12-9  | 5.5                |          | 108   | 106 | 103   | 100 | 95.5  | 91  | 85    | 79  | 71.5  | 64  |
| CDL12-10 | 7.5                |          | 120   | 118 | 114.5 | 111 | 106   | 101 | 94.5  | 88  | 80    | 72  |
| CDL12-12 | 7.5                |          | 143.5 | 141 | 137   | 133 | 127   | 121 | 113.5 | 106 | 96    | 86  |
| CDL12-14 | 11                 |          | 168   | 165 | 160   | 155 | 148   | 141 | 132.5 | 124 | 112   | 100 |
| CDL12-16 | 11                 |          | 192.5 | 189 | 183.5 | 178 | 170   | 162 | 152   | 142 | 128.5 | 115 |
| CDL12-18 | 11                 |          | 217   | 213 | 207.5 | 202 | 192.5 | 183 | 171.5 | 160 | 145   | 130 |

## Installation sketch



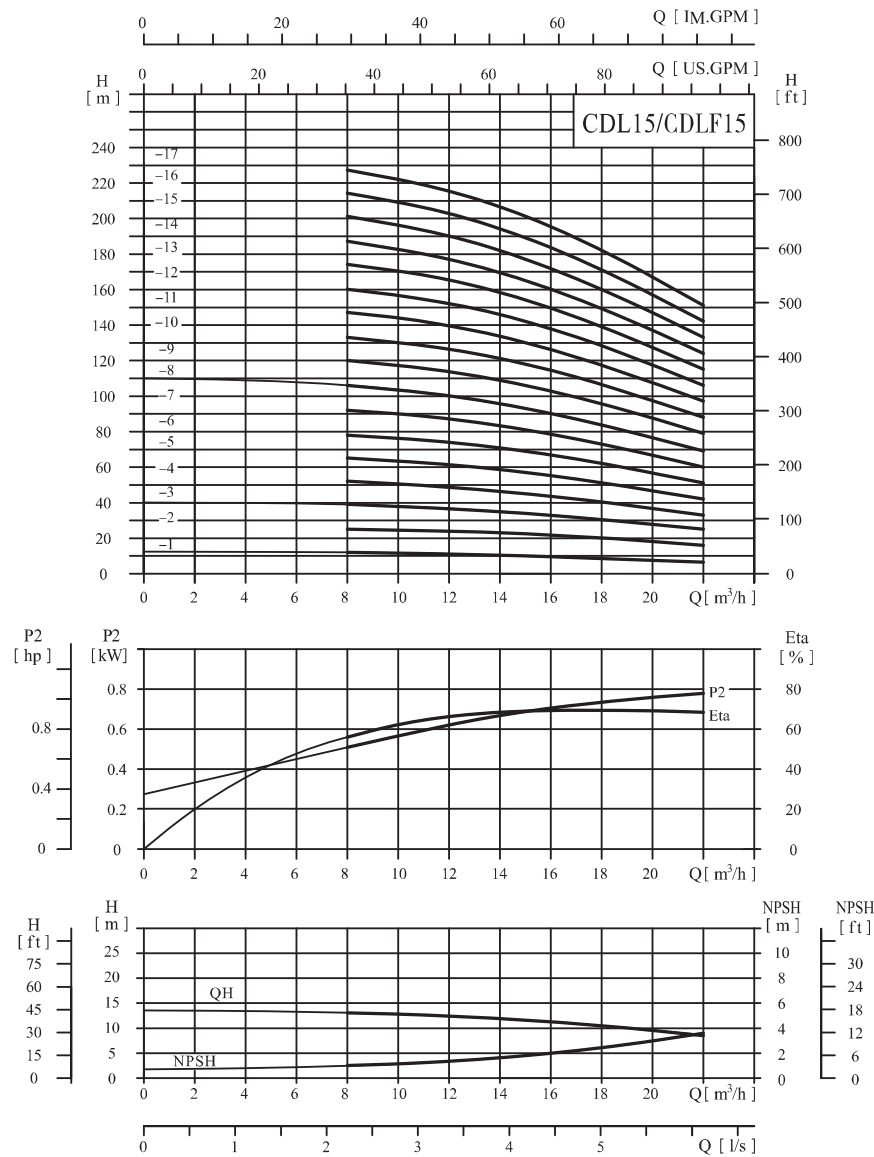
## Size and weight

| Model    | Size (mm) |     |       |     |     | Weight (kg) |
|----------|-----------|-----|-------|-----|-----|-------------|
|          | B1        | B2  | B1+B2 | D1  | D2  |             |
| CDL12-2  | 367       | 290 | 657   | 190 | 155 | 40          |
| CDL12-3  | 397       | 290 | 687   | 190 | 155 | 45          |
| CDL12-4  | 437       | 345 | 782   | 197 | 165 | 55          |
| CDL12-5  | 467       | 345 | 812   | 197 | 165 | 57          |
| CDL12-6  | 497       | 355 | 852   | 230 | 188 | 66          |
| CDL12-7  | 547       | 390 | 937   | 260 | 208 | 77          |
| CDL12-8  | 577       | 390 | 967   | 260 | 208 | 78          |
| CDL12-9  | 607       | 390 | 997   | 260 | 208 | 80          |
| CDL12-10 | 637       | 390 | 1027  | 260 | 208 | 88          |
| CDL12-12 | 697       | 390 | 1087  | 260 | 208 | 92          |
| CDL12-14 | 845       | 500 | 1345  | 330 | 255 | 162         |
| CDL12-16 | 905       | 500 | 1405  | 330 | 255 | 167         |
| CDL12-18 | 965       | 500 | 1465  | 330 | 255 | 168         |

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

## Performance curve

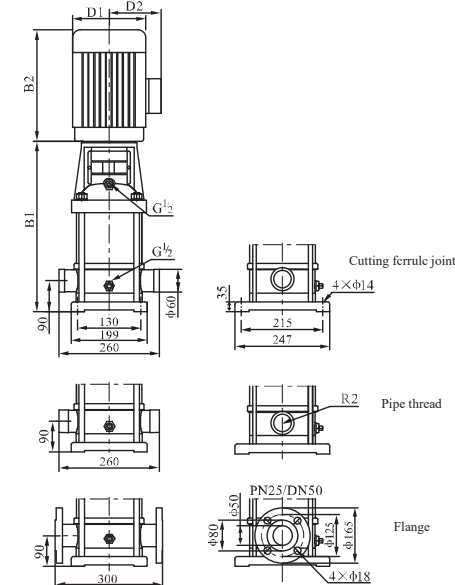
ISO9906 Annex A 2900rpm



## Performance table

| Model    | Driving motor (kW) | Q (m³/h) | 8   | 10   | 12  | 14   | 15   | 16   | 18  | 20  | 22  |
|----------|--------------------|----------|-----|------|-----|------|------|------|-----|-----|-----|
| CDL15-1  | 1.1                | H (m)    | 12  | 11.5 | 11  | 10.5 | 10   | 9.5  | 8.5 | 7.5 | 6.5 |
| CDL15-2  | 2.2                |          | 25  | 24.5 | 24  | 23   | 22.5 | 21.5 | 20  | 18  | 16  |
| CDL15-3  | 3                  |          | 39  | 38   | 37  | 35   | 34   | 33   | 30  | 28  | 25  |
| CDL15-4  | 4                  |          | 52  | 51   | 49  | 46   | 45   | 44   | 40  | 37  | 33  |
| CDL15-5  | 4                  |          | 65  | 63   | 61  | 59   | 57   | 55   | 51  | 47  | 42  |
| CDL15-6  | 5.5                |          | 78  | 76   | 74  | 71   | 69   | 67   | 62  | 57  | 51  |
| CDL15-7  | 5.5                |          | 92  | 90   | 87  | 83   | 81   | 79   | 73  | 67  | 60  |
| CDL15-8  | 7.5                |          | 106 | 103  | 100 | 96   | 93   | 90   | 84  | 77  | 69  |
| CDL15-9  | 7.5                |          | 120 | 117  | 114 | 109  | 106  | 103  | 95  | 87  | 79  |
| CDL15-10 | 11                 |          | 133 | 130  | 126 | 121  | 118  | 114  | 106 | 97  | 88  |
| CDL15-12 | 11                 |          | 160 | 157  | 152 | 146  | 142  | 138  | 128 | 117 | 106 |
| CDL15-14 | 11                 |          | 187 | 182  | 177 | 169  | 165  | 160  | 149 | 137 | 124 |
| CDL15-17 | 15                 |          | 227 | 222  | 215 | 206  | 201  | 195  | 182 | 167 | 151 |

## Installation sketch



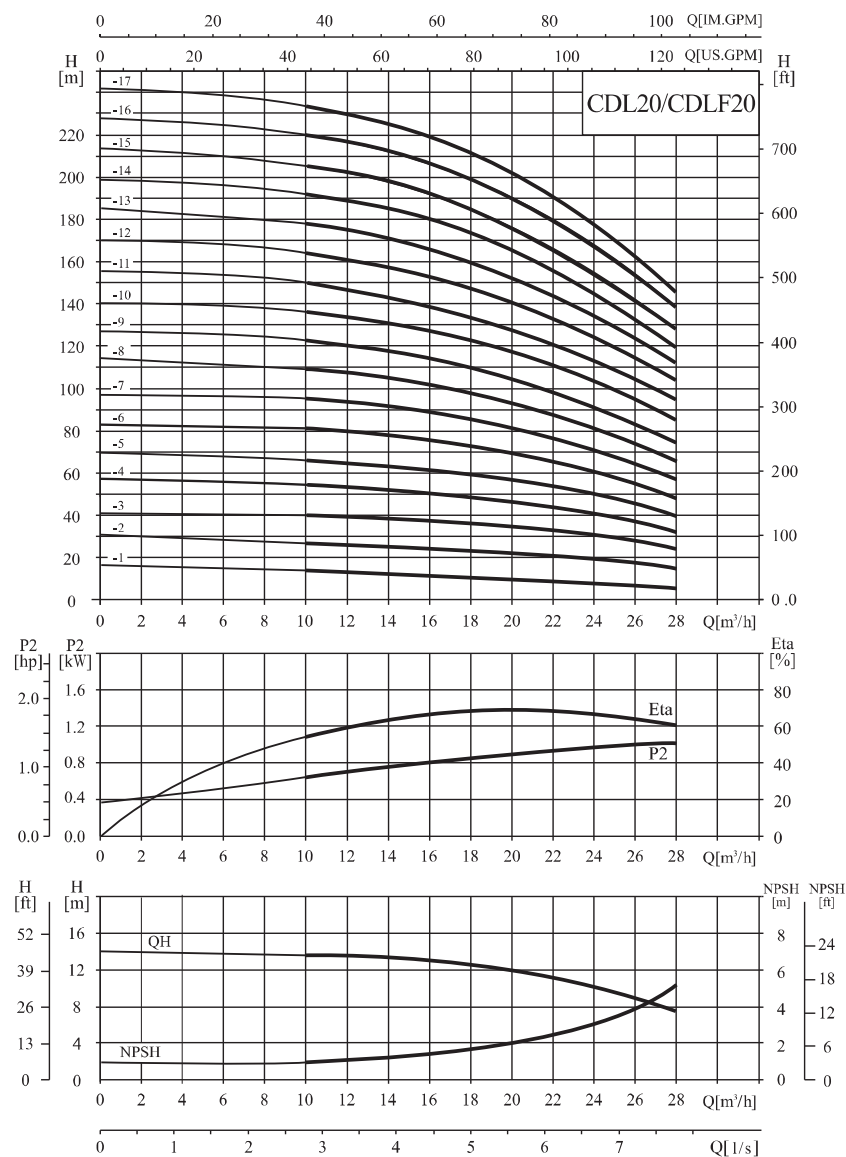
## Size and weight

| Model    | Size (mm) |     |       |     |     | Weight (kg) |
|----------|-----------|-----|-------|-----|-----|-------------|
|          | B1        | B2  | B1+B2 | D1  | D2  |             |
| CDL15-1  | 387       | 245 | 632   | 170 | 142 | 33          |
| CDL15-2  | 397       | 290 | 687   | 190 | 155 | 42          |
| CDL15-3  | 452       | 345 | 797   | 197 | 165 | 51          |
| CDL15-4  | 497       | 355 | 852   | 230 | 188 | 60          |
| CDL15-5  | 542       | 355 | 897   | 230 | 188 | 62          |
| CDL15-6  | 607       | 390 | 997   | 260 | 208 | 78          |
| CDL15-7  | 652       | 390 | 1042  | 260 | 208 | 80          |
| CDL15-8  | 697       | 390 | 1087  | 260 | 208 | 86          |
| CDL15-9  | 742       | 390 | 1132  | 260 | 208 | 88          |
| CDL15-10 | 875       | 500 | 1375  | 330 | 255 | 166         |
| CDL15-12 | 965       | 500 | 1465  | 330 | 255 | 170         |
| CDL15-14 | 1055      | 500 | 1555  | 330 | 255 | 173         |
| CDL15-17 | 1190      | 500 | 1690  | 330 | 255 | 186         |

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

# Performance curve

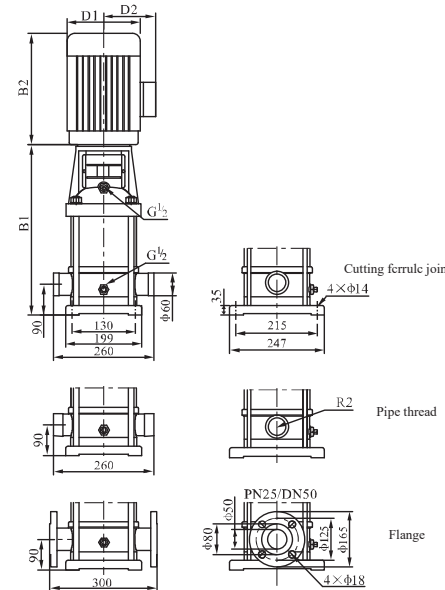
ISO9906 Annex A 2900rpm



# Performance table

| Model    | Driving motor (kW) | Q (m³/h) | 10   | 12   | 14   | 16  | 18  | 20  | 22  | 24  | 26  | 28  |
|----------|--------------------|----------|------|------|------|-----|-----|-----|-----|-----|-----|-----|
| CDL20-1  | 1.1                | H (m)    | 13.5 | 13   | 12.5 | 12  | 11  | 10  | 9   | 8   | 7   | 6   |
| CDL20-2  | 2.2                |          | 27   | 26.5 | 26   | 25  | 24  | 23  | 22  | 20  | 18  | 15  |
| CDL20-3  | 4.0                |          | 40   | 39.5 | 39   | 38  | 37  | 35  | 33  | 30  | 27  | 24  |
| CDL20-4  | 5.5                |          | 54   | 53   | 52   | 51  | 49  | 47  | 44  | 41  | 37  | 33  |
| CDL20-5  | 5.5                |          | 67   | 66   | 64   | 62  | 60  | 58  | 55  | 50  | 45  | 40  |
| CDL20-6  | 7.5                |          | 81   | 79   | 77   | 75  | 73  | 70  | 66  | 61  | 55  | 49  |
| CDL20-7  | 7.5                |          | 95   | 93   | 91   | 89  | 86  | 82  | 77  | 71  | 65  | 58  |
| CDL20-8  | 11                 |          | 109  | 107  | 105  | 102 | 99  | 94  | 89  | 82  | 75  | 67  |
| CDL20-10 | 11                 |          | 136  | 134  | 131  | 128 | 124 | 118 | 111 | 103 | 95  | 85  |
| CDL20-12 | 15                 |          | 164  | 162  | 158  | 154 | 149 | 142 | 133 | 124 | 114 | 102 |
| CDL20-14 | 15                 |          | 192  | 189  | 185  | 180 | 174 | 166 | 156 | 145 | 133 | 119 |
| CDL20-17 | 18.5               |          | 234  | 230  | 225  | 219 | 212 | 202 | 190 | 177 | 162 | 145 |

# Installation sketch



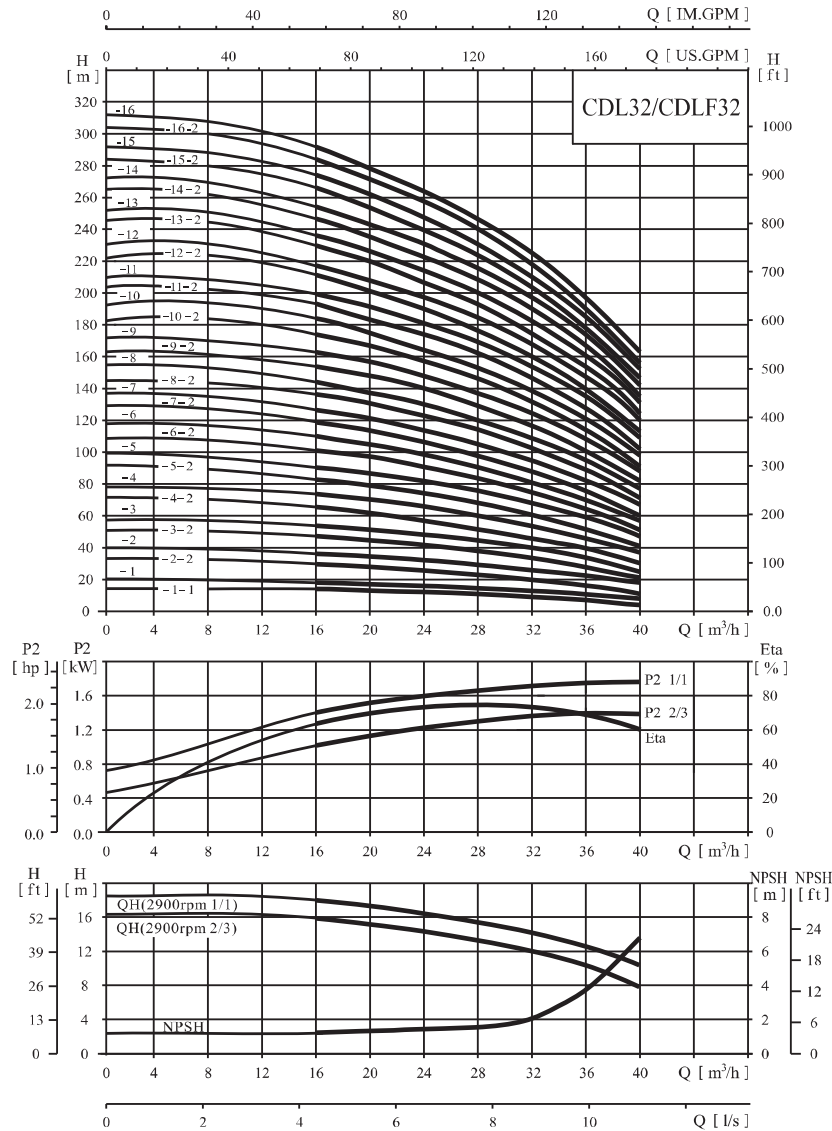
# Size and weight

| Model    | Size(mm) |     |       |     |     | Weight (kg) |
|----------|----------|-----|-------|-----|-----|-------------|
|          | B1       | B2  | B1+B2 | D1  | D2  |             |
| CDL20-1  | 387      | 245 | 632   | 170 | 142 | 33          |
| CDL20-2  | 397      | 290 | 687   | 190 | 155 | 42          |
| CDL20-3  | 452      | 355 | 807   | 230 | 188 | 58          |
| CDL20-4  | 517      | 390 | 907   | 260 | 208 | 74          |
| CDL20-5  | 562      | 390 | 952   | 260 | 208 | 75          |
| CDL20-6  | 607      | 390 | 997   | 260 | 208 | 84          |
| CDL20-7  | 652      | 390 | 1042  | 260 | 208 | 86          |
| CDL20-8  | 785      | 500 | 1285  | 330 | 255 | 157         |
| CDL20-10 | 875      | 500 | 1375  | 330 | 255 | 162         |
| CDL20-12 | 965      | 500 | 1465  | 330 | 255 | 176         |
| CDL20-14 | 1055     | 500 | 1555  | 330 | 255 | 178         |
| CDL20-17 | 1190     | 550 | 1740  | 330 | 255 | 201         |

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

Performance curve

ISO9906 Annex A 2900rpm

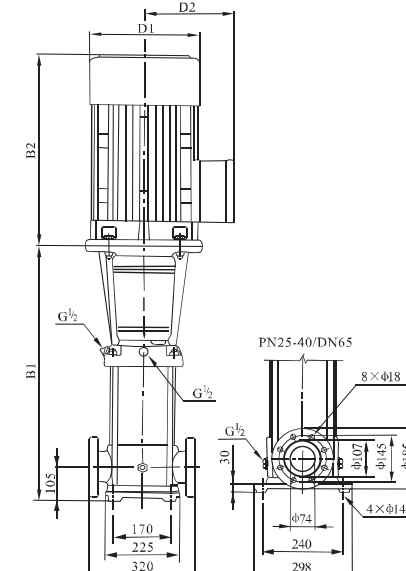


Performance table

| Model     | Driving motor (kW) | Q (m³/h) | 16  | 20  | 24  | 28  | 32  | 36 | 40 |
|-----------|--------------------|----------|-----|-----|-----|-----|-----|----|----|
| CDL32-1-1 | 1.5                | H (m)    | 14  | 13  | 12  | 11  | 9   | 7  | 4  |
| CDL32-1   | 2.2                |          | 18  | 17  | 15  | 14  | 13  | 11 | 8  |
| CDL32-2-2 | 3.0                |          | 29  | 28  | 26  | 23  | 20  | 16 | 11 |
| CDL32-2   | 4.0                |          | 36  | 34  | 32  | 29  | 27  | 23 | 18 |
| CDL32-3-2 | 5.5                |          | 47  | 44  | 41  | 38  | 33  | 28 | 21 |
| CDL32-3   | 5.5                |          | 54  | 51  | 48  | 44  | 40  | 35 | 27 |
| CDL32-4-2 | 7.5                |          | 65  | 62  | 58  | 53  | 46  | 40 | 30 |
| CDL32-4   | 7.5                |          | 72  | 69  | 65  | 59  | 53  | 47 | 37 |
| CDL32-5-2 | 11                 |          | 83  | 79  | 74  | 68  | 60  | 52 | 41 |
| CDL32-5   | 11                 |          | 90  | 86  | 81  | 74  | 67  | 59 | 47 |
| CDL32-6-2 | 11                 |          | 101 | 97  | 90  | 83  | 74  | 65 | 51 |
| CDL32-6   | 11                 |          | 108 | 104 | 97  | 90  | 81  | 72 | 57 |
| CDL32-7-2 | 15                 |          | 119 | 114 | 107 | 98  | 88  | 78 | 60 |
| CDL32-7   | 15                 |          | 126 | 121 | 113 | 105 | 95  | 85 | 67 |
| CDL32-8-2 | 15                 |          | 136 | 131 | 123 | 114 | 102 | 90 | 71 |
| CDL32-8   | 15                 |          | 144 | 138 | 130 | 120 | 109 | 97 | 77 |

| Model      | Driving motor (kW) | Q (m³/h) | 16  | 20  | 24  | 28  | 32  | 36  | 40  |
|------------|--------------------|----------|-----|-----|-----|-----|-----|-----|-----|
| CDL32-9-2  | 18.5               | H (m)    | 154 | 148 | 140 | 129 | 117 | 102 | 82  |
| CDL32-9    | 18.5               |          | 162 | 156 | 147 | 136 | 124 | 109 | 88  |
| CDL32-10-2 | 18.5               |          | 175 | 166 | 157 | 146 | 131 | 115 | 91  |
| CDL32-10   | 18.5               |          | 182 | 173 | 164 | 152 | 138 | 122 | 98  |
| CDL32-11-2 | 22                 |          | 193 | 184 | 173 | 164 | 146 | 128 | 102 |
| CDL32-11   | 22                 |          | 200 | 191 | 180 | 168 | 153 | 135 | 109 |
| CDL32-12-2 | 22                 |          | 211 | 201 | 189 | 178 | 160 | 140 | 113 |
| CDL32-12   | 22                 |          | 218 | 208 | 196 | 184 | 167 | 147 | 120 |
| CDL32-13-2 | 30                 |          | 230 | 218 | 206 | 193 | 174 | 153 | 124 |
| CDL32-13   | 30                 |          | 237 | 225 | 213 | 200 | 181 | 160 | 131 |
| CDL32-14-2 | 30                 |          | 247 | 235 | 222 | 210 | 189 | 165 | 135 |
| CDL32-14   | 30                 |          | 255 | 242 | 229 | 216 | 196 | 172 | 142 |
| CDL32-15-2 | 30                 |          | 266 | 253 | 239 | 224 | 203 | 178 | 145 |
| CDL32-15   | 30                 |          | 274 | 260 | 246 | 231 | 210 | 185 | 152 |
| CDL32-16-2 | 30                 |          | 284 | 270 | 255 | 240 | 218 | 190 | 156 |
| CDL32-16   | 30                 |          | 292 | 277 | 262 | 246 | 225 | 197 | 163 |

Installation sketch



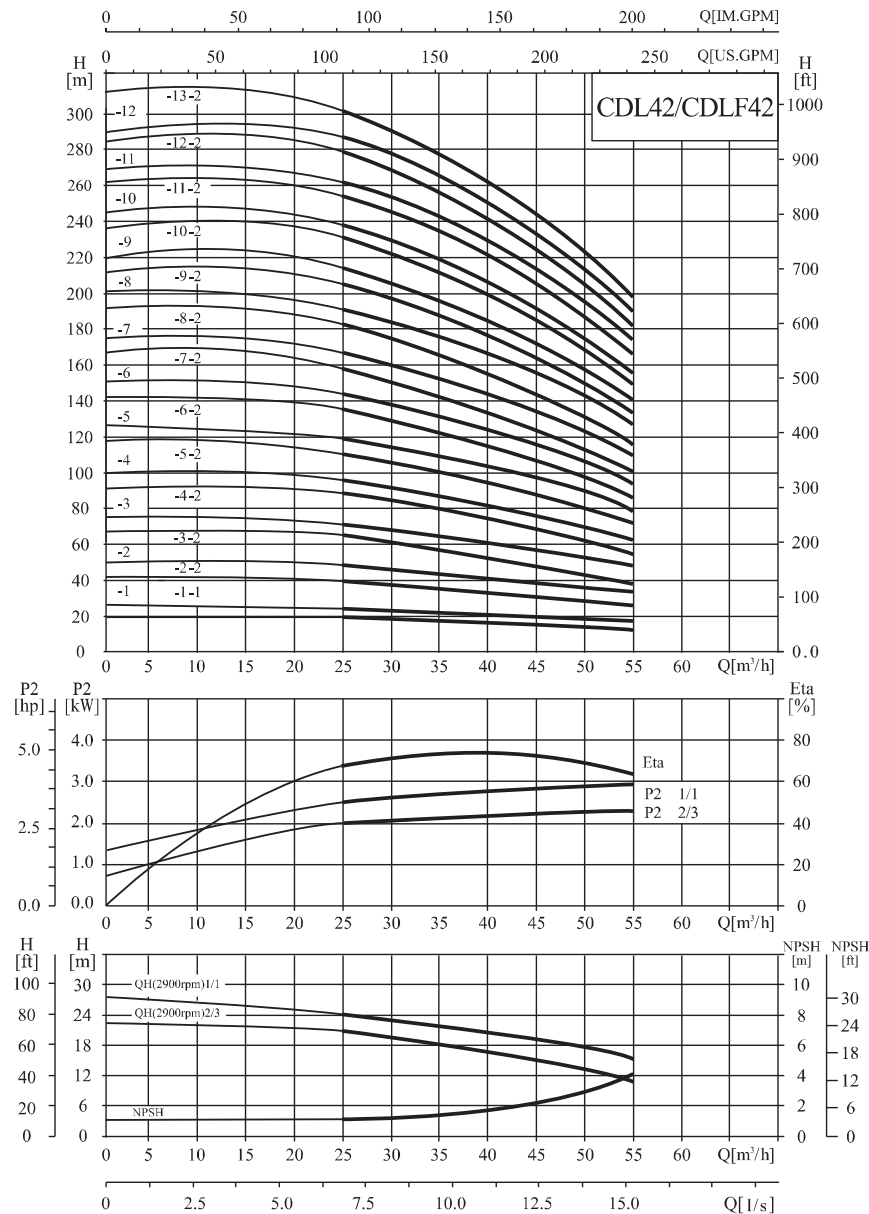
The overall dimensions of the single-phase motor and explosion-proof motor are a little different. Pls contact us for details.

Size and weight

| Model               | Size(mm) |         |         |         |         | Weight (kg) |
|---------------------|----------|---------|---------|---------|---------|-------------|
|                     | B1       | B2      | B1+B2   | D1      | D2      |             |
| CDL32-1-1/CDL32-1   | 505      | 290     | 795     | 190     | 155     | 63/67       |
| CDL32-2-2/CDL32-2   | 575      | 345/355 | 920/930 | 197/230 | 165/180 | 76/84       |
| CDL32-3-2/CDL32-3   | 645      | 390     | 1035    | 260     | 208     | 99          |
| CDL32-4-2/CDL32-4   | 715      | 390     | 1105    | 260     | 208     | 108         |
| CDL32-5-2/CDL32-5   | 890      | 500     | 1390    | 330     | 255     | 187         |
| CDL32-6-2/CDL32-6   | 960      | 500     | 1460    | 330     | 255     | 193         |
| CDL32-7-2/CDL32-7   | 1030     | 500     | 1530    | 330     | 255     | 205         |
| CDL32-8-2/CDL32-8   | 1100     | 500     | 1600    | 330     | 255     | 207         |
| CDL32-9-2/CDL32-9   | 1170     | 550     | 1720    | 330     | 255     | 226         |
| CDL32-10-2/CDL32-10 | 1240     | 550     | 1790    | 330     | 255     | 232         |
| CDL32-11-2/CDL32-11 | 1310     | 575     | 1885    | 360     | 285     | 278         |
| CDL32-12-2/CDL32-12 | 1380     | 575     | 1955    | 360     | 285     | 282         |
| CDL32-13-2/CDL32-13 | 1450     | 650     | 2100    | 400     | 310     | 343         |
| CDL32-14-2/CDL32-14 | 1520     | 650     | 2170    | 400     | 310     | 347         |
| CDL32-15-2/CDL32-15 | 1590     | 650     | 2240    | 400     | 310     | 350         |
| CDL32-16-2/CDL32-16 | 1660     | 650     | 2310    | 400     | 310     | 356         |

Performance curve

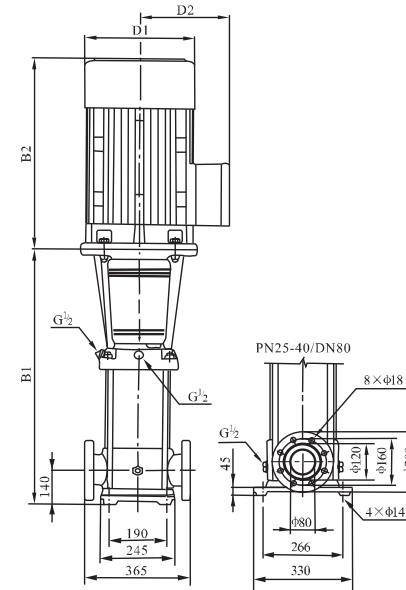
ISO9906 Annex A 2900rpm



Performance table

| Model      | Driving motor (kW) | Q (m³/h) | 25  | 30  | 35  | 40  | 42  | 45  | 50  | 55  |
|------------|--------------------|----------|-----|-----|-----|-----|-----|-----|-----|-----|
| CDL42-1-1  | 3.0                | H (m)    | 20  | 19  | 18  | 17  | 16  | 15  | 13  | 11  |
| CDL42-1    | 4.0                |          | 24  | 23  | 22  | 21  | 20  | 19  | 18  | 16  |
| CDL42-2-2  | 5.5                |          | 40  | 38  | 36  | 33  | 32  | 30  | 27  | 23  |
| CDL42-2    | 7.5                |          | 48  | 46  | 44  | 42  | 41  | 39  | 35  | 31  |
| CDL42-3-2  | 11                 |          | 63  | 61  | 58  | 54  | 52  | 50  | 44  | 38  |
| CDL42-3    | 11                 |          | 71  | 69  | 66  | 63  | 61  | 58  | 53  | 47  |
| CDL42-4-2  | 15                 |          | 87  | 84  | 80  | 75  | 73  | 69  | 62  | 54  |
| CDL42-4    | 15                 |          | 95  | 92  | 88  | 84  | 81  | 78  | 71  | 62  |
| CDL42-5-2  | 18.5               |          | 111 | 107 | 102 | 96  | 93  | 88  | 80  | 69  |
| CDL42-5    | 18.5               |          | 119 | 115 | 110 | 105 | 101 | 97  | 88  | 78  |
| CDL42-6-2  | 22                 |          | 135 | 130 | 124 | 117 | 113 | 108 | 97  | 85  |
| CDL42-6    | 22                 |          | 143 | 138 | 132 | 125 | 122 | 116 | 106 | 93  |
| CDL42-7-2  | 30                 |          | 158 | 152 | 146 | 138 | 134 | 127 | 115 | 100 |
| CDL42-7    | 30                 |          | 166 | 161 | 154 | 146 | 142 | 135 | 124 | 109 |
| CDL42-8-2  | 30                 |          | 182 | 175 | 168 | 159 | 154 | 146 | 133 | 116 |
| CDL42-8    | 30                 |          | 190 | 184 | 176 | 167 | 162 | 154 | 141 | 124 |
| CDL42-9-2  | 30                 |          | 205 | 198 | 190 | 180 | 174 | 166 | 150 | 132 |
| CDL42-9    | 37                 |          | 214 | 207 | 198 | 188 | 183 | 174 | 159 | 140 |
| CDL42-10-2 | 37                 |          | 230 | 221 | 212 | 200 | 194 | 185 | 168 | 147 |
| CDL42-10   | 37                 |          | 238 | 230 | 220 | 209 | 203 | 193 | 177 | 155 |
| CDL42-11-2 | 45                 |          | 255 | 246 | 236 | 223 | 217 | 206 | 188 | 165 |
| CDL42-11   | 45                 |          | 263 | 255 | 244 | 232 | 225 | 214 | 196 | 173 |
| CDL42-12-2 | 45                 |          | 280 | 270 | 259 | 245 | 238 | 226 | 206 | 181 |
| CDL42-12   | 45                 |          | 289 | 280 | 268 | 255 | 247 | 236 | 216 | 190 |
| CDL42-13-2 | 45                 |          | 305 | 294 | 282 | 267 | 259 | 247 | 225 | 198 |

Installation sketch



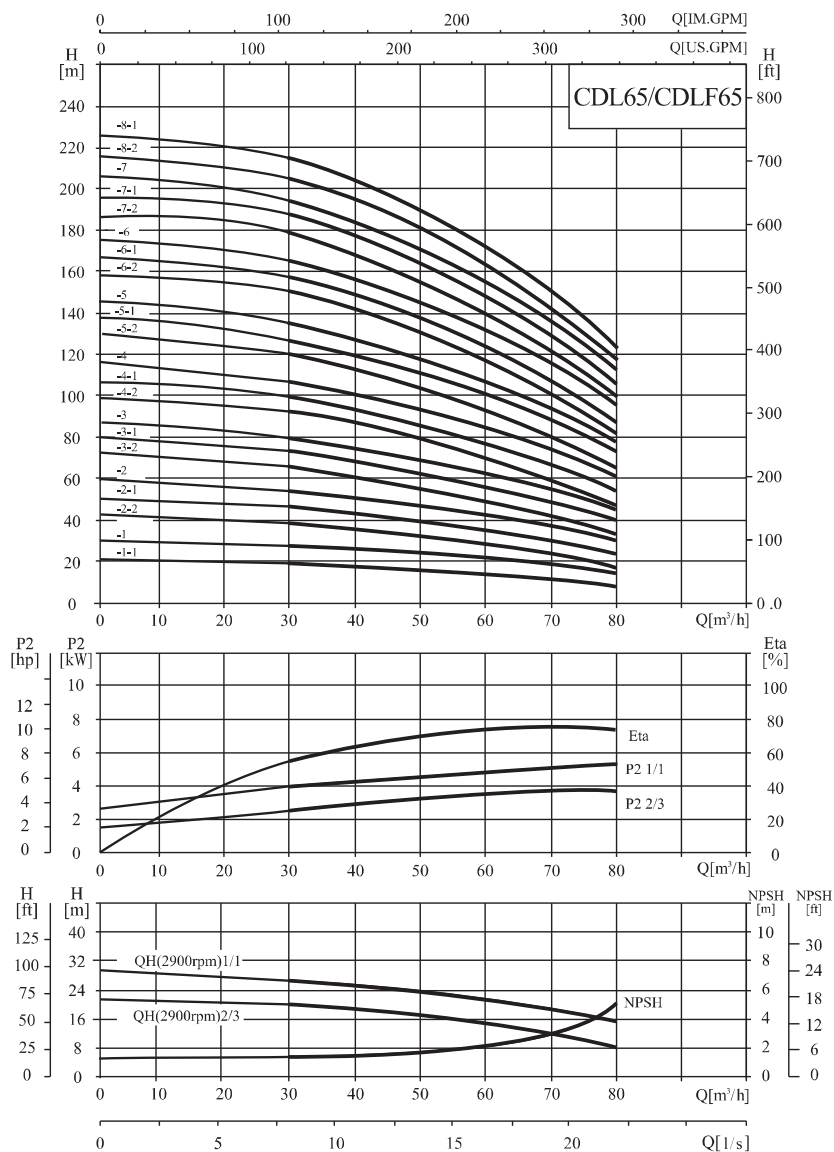
Size and weight

| Model      | Size(mm) |         |         |         |         | Weight (kg) |
|------------|----------|---------|---------|---------|---------|-------------|
|            | B1       | B2      | B1+B2   | D1      | D2      |             |
| CDL42-1-1  | 561      | 345/355 | 906/916 | 197/230 | 165/188 | 84/91       |
| CDL42-1    |          |         |         |         |         |             |
| CDL42-2-2  | 641      | 390     | 1031    | 260     | 208     | 106/111     |
| CDL42-2    |          |         |         |         |         |             |
| CDL42-3-2  | 826      | 500     | 1326    | 330     | 255     | 187         |
| CDL42-3    |          |         |         |         |         |             |
| CDL42-4-2  | 906      | 500     | 1406    | 330     | 255     | 203         |
| CDL42-4    |          |         |         |         |         |             |
| CDL42-5-2  | 986      | 550     | 1536    | 330     | 255     | 225         |
| CDL42-5    |          |         |         |         |         |             |
| CDL42-6-2  | 1066     | 575     | 1641    | 360     | 285     | 266         |
| CDL42-6    |          |         |         |         |         |             |
| CDL42-7-2  | 1146     | 650     | 1796    | 400     | 310     | 326         |
| CDL42-7    |          |         |         |         |         |             |
| CDL42-8-2  | 1226     | 650     | 1876    | 400     | 310     | 330         |
| CDL42-8    |          |         |         |         |         |             |
| CDL42-9-2  | 1306     | 650     | 1956    | 400     | 310     | 334         |
| CDL42-9    |          |         |         |         |         |             |
| CDL42-10-2 | 1386     | 650     | 2036    | 400     | 310     | 360         |
| CDL42-10   |          |         |         |         |         |             |
| CDL42-11-2 | 1466     | 685     | 2151    | 450     | 345     | 430         |
| CDL42-11   |          |         |         |         |         |             |
| CDL42-12-2 | 1546     | 685     | 2231    | 450     | 345     | 438         |
| CDL42-12   |          |         |         |         |         |             |
| CDL42-13-2 | 1626     | 685     | 2311    | 450     | 345     | 444         |

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

## Performance curve

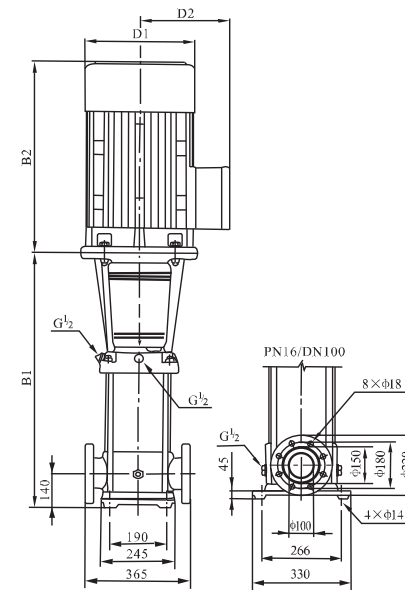
ISO9906 Annex A 2900rpm



## Performance table

| Model     | Driving motor (kW) | Q (m³/h) | 30  | 40  | 50  | 60  | 65  | 70  | 80  |
|-----------|--------------------|----------|-----|-----|-----|-----|-----|-----|-----|
| CDL65-1-1 | 4.0                | H (m)    | 19  | 18  | 16  | 14  | 13  | 11  | 8   |
| CDL65-1   | 5.5                |          | 27  | 25  | 23  | 21  | 20  | 18  | 15  |
| CDL65-2-2 | 7.5                |          | 39  | 36  | 33  | 29  | 26  | 23  | 17  |
| CDL65-2-1 | 11                 |          | 46  | 44  | 40  | 36  | 33  | 30  | 24  |
| CDL65-2   | 11                 |          | 53  | 51  | 47  | 43  | 40  | 37  | 30  |
| CDL65-3-2 | 15                 |          | 66  | 62  | 56  | 50  | 46  | 41  | 32  |
| CDL65-3-1 | 15                 |          | 73  | 69  | 63  | 57  | 53  | 48  | 39  |
| CDL65-3   | 18.5               |          | 80  | 76  | 70  | 64  | 60  | 55  | 46  |
| CDL65-4-2 | 18.5               |          | 92  | 87  | 80  | 71  | 66  | 60  | 47  |
| CDL65-4-1 | 22                 |          | 100 | 94  | 87  | 78  | 73  | 67  | 54  |
| CDL65-4   | 22                 |          | 107 | 101 | 94  | 85  | 80  | 74  | 61  |
| CDL65-5-2 | 30                 |          | 121 | 114 | 105 | 95  | 88  | 80  | 64  |
| CDL65-5-1 | 30                 |          | 128 | 121 | 112 | 102 | 95  | 87  | 71  |
| CDL65-5   | 30                 |          | 136 | 129 | 119 | 109 | 102 | 94  | 78  |
| CDL65-6-2 | 30                 |          | 150 | 142 | 131 | 118 | 110 | 101 | 81  |
| CDL65-6-1 | 37                 |          | 157 | 149 | 138 | 125 | 117 | 108 | 88  |
| CDL65-6   | 37                 |          | 164 | 156 | 145 | 132 | 124 | 115 | 95  |
| CDL65-7-2 | 37                 |          | 179 | 169 | 156 | 141 | 132 | 121 | 99  |
| CDL65-7-1 | 37                 |          | 186 | 176 | 163 | 148 | 139 | 128 | 106 |
| CDL65-7   | 45                 |          | 193 | 183 | 170 | 155 | 146 | 135 | 112 |
| CDL65-8-2 | 45                 |          | 207 | 196 | 182 | 164 | 154 | 142 | 116 |
| CDL65-8-1 | 45                 |          | 215 | 203 | 189 | 171 | 161 | 149 | 123 |

## Installation sketch



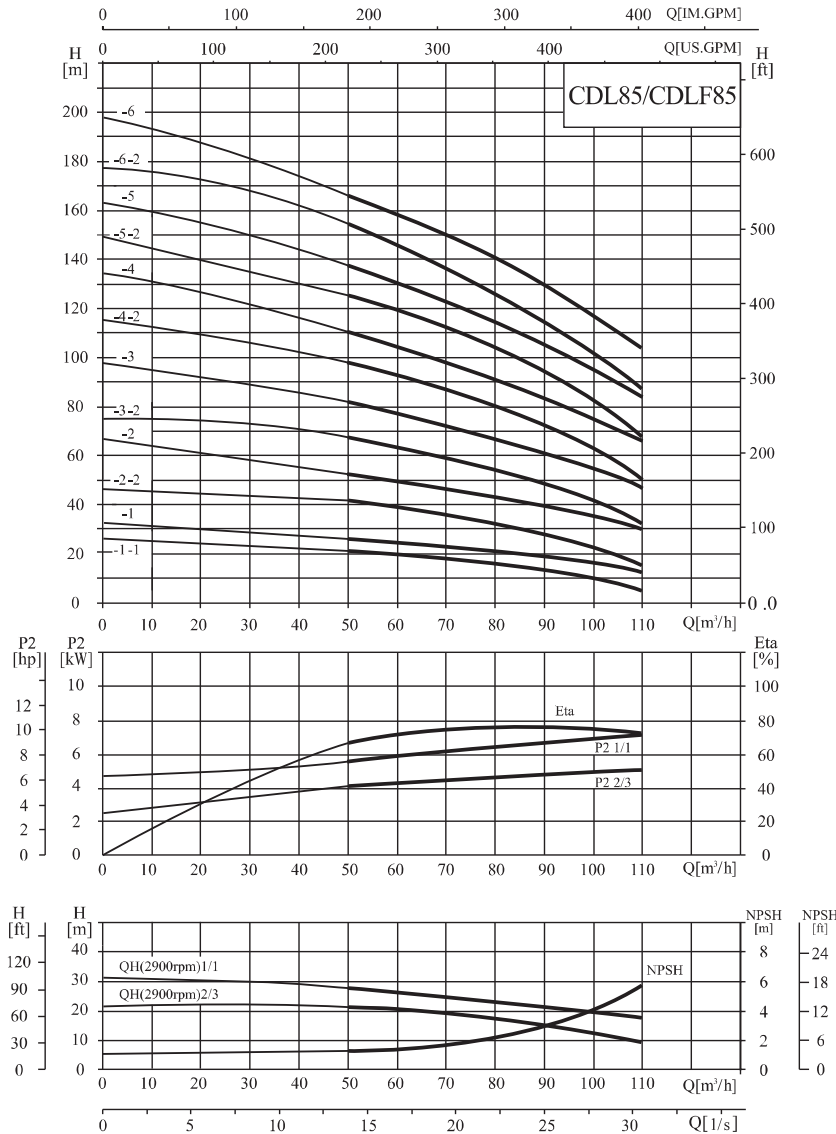
## Size and weight

| Model     | Size(mm) |     |       |     |     | Weight (kg) |
|-----------|----------|-----|-------|-----|-----|-------------|
|           | B1       | B2  | B1+B2 | D1  | D2  |             |
| CDL65-1-1 | 561      | 355 | 916   | 230 | 188 | 98          |
| CDL65-1   | 561      | 390 | 951   | 260 | 208 | 110         |
| CDL65-2-2 | 644      | 390 | 1034  | 260 | 208 | 115         |
| CDL65-2-1 | 754      | 500 | 1254  | 330 | 255 | 197         |
| CDL65-2   | 754      | 500 | 1254  | 330 | 255 | 197         |
| CDL65-3-2 | 836      | 500 | 1336  | 330 | 255 | 206         |
| CDL65-3-1 | 836      | 500 | 1336  | 330 | 255 | 207         |
| CDL65-3   | 836      | 550 | 1386  | 330 | 255 | 232         |
| CDL65-4-2 | 919      | 550 | 1469  | 330 | 255 | 239         |
| CDL65-4-1 | 919      | 575 | 1494  | 360 | 285 | 272         |
| CDL65-4   | 919      | 575 | 1494  | 360 | 285 | 272         |
| CDL65-5-2 | 1001     | 650 | 1651  | 400 | 310 | 334         |
| CDL65-5-1 | 1001     | 650 | 1651  | 400 | 310 | 334         |
| CDL65-5   | 1001     | 650 | 1651  | 400 | 310 | 335         |
| CDL65-6-2 | 1084     | 650 | 1734  | 400 | 310 | 340         |
| CDL65-6-1 | 1084     | 650 | 1734  | 400 | 310 | 365         |
| CDL65-6   | 1084     | 650 | 1734  | 400 | 310 | 365         |
| CDL65-7-2 | 1166     | 650 | 1816  | 400 | 310 | 370         |
| CDL65-7-1 | 1166     | 650 | 1816  | 400 | 310 | 370         |
| CDL65-7   | 1166     | 685 | 1851  | 460 | 340 | 437         |
| CDL65-8-2 | 1248     | 685 | 1933  | 460 | 340 | 440         |
| CDL65-8-1 | 1248     | 685 | 1933  | 460 | 340 | 440         |

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

Performance curve

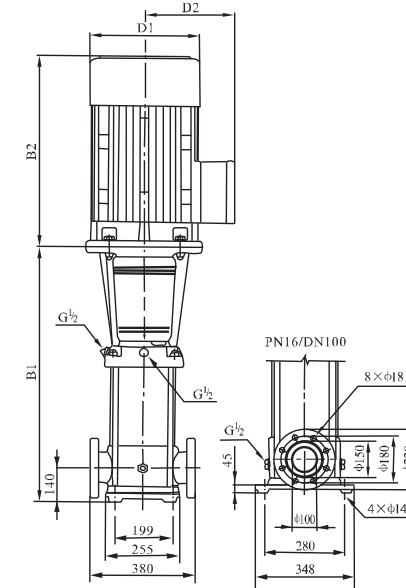
ISO9906 Annex A 2900rpm



Performance table

| Model     | Driving motor (kW) | Q (m³/h) | 50  | 60  | 70  | 80  | 85  | 90  | 100 | 110 |
|-----------|--------------------|----------|-----|-----|-----|-----|-----|-----|-----|-----|
| CDL85-1-1 | 5.5                | H (m)    | 22  | 19  | 17  | 16  | 14  | 13  | 10  | 6   |
| CDL85-1   | 7.5                |          | 25  | 24  | 22  | 21  | 20  | 19  | 16  | 12  |
| CDL85-2-2 | 11                 |          | 41  | 39  | 36  | 32  | 30  | 28  | 22  | 15  |
| CDL85-2   | 15                 |          | 53  | 50  | 47  | 44  | 41  | 40  | 36  | 30  |
| CDL85-3-2 | 18.5               |          | 68  | 65  | 60  | 55  | 52  | 49  | 41  | 32  |
| CDL85-3   | 22                 |          | 81  | 77  | 72  | 67  | 64  | 62  | 55  | 48  |
| CDL85-4-2 | 30                 |          | 98  | 93  | 87  | 80  | 75  | 72  | 62  | 50  |
| CDL85-4   | 30                 |          | 110 | 105 | 100 | 92  | 86  | 84  | 76  | 66  |
| CDL85-5-2 | 37                 |          | 126 | 120 | 113 | 104 | 98  | 93  | 81  | 68  |
| CDL85-5   | 37                 |          | 139 | 131 | 124 | 115 | 110 | 106 | 94  | 83  |
| CDL85-6-2 | 45                 |          | 155 | 148 | 139 | 129 | 122 | 117 | 102 | 86  |
| CDL85-6   | 45                 |          | 168 | 160 | 150 | 141 | 134 | 130 | 117 | 103 |

Installation sketch



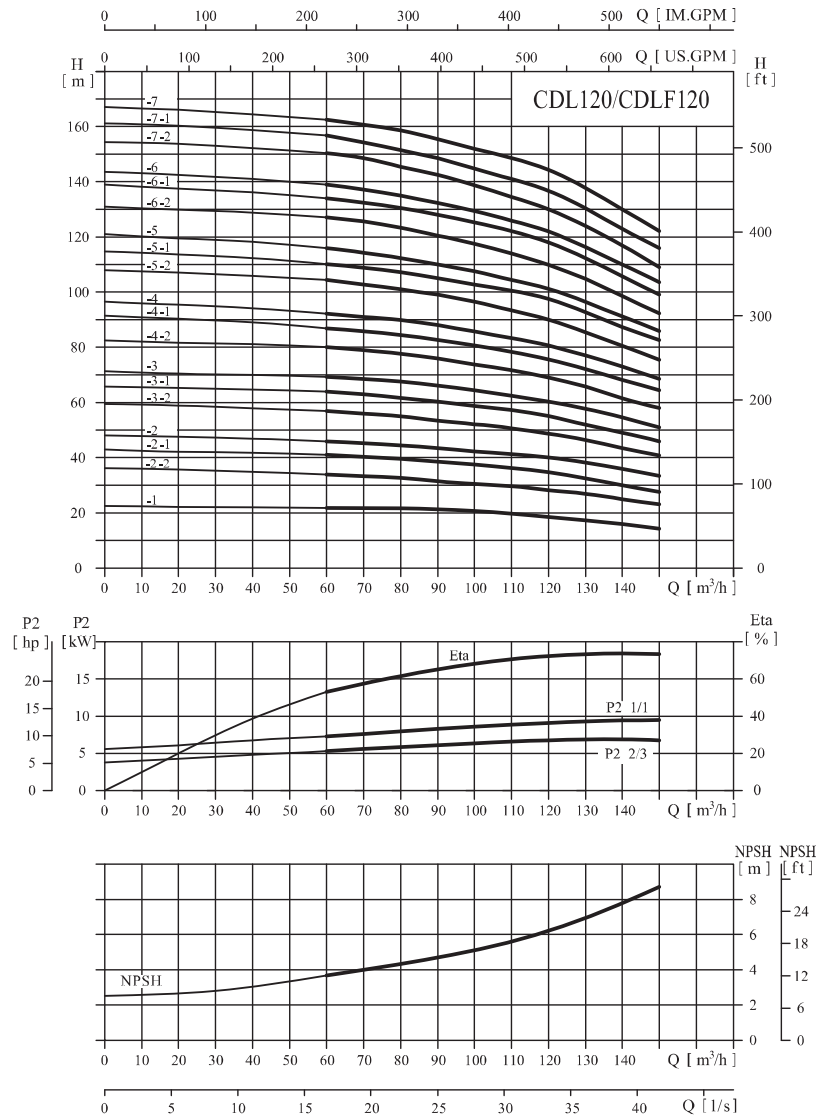
Size and weight

| Model     | Size(mm) |     |       |     |     | Weight (kg) |
|-----------|----------|-----|-------|-----|-----|-------------|
|           | B1       | B2  | B1+B2 | D1  | D2  |             |
| CDL85-1-1 | 571      | 390 | 961   | 260 | 208 | 109         |
| CDL85-1   | 571      | 390 | 961   | 260 | 208 | 115         |
| CDL85-2-2 | 773      | 500 | 1273  | 330 | 255 | 185         |
| CDL85-2   | 773      | 500 | 1273  | 330 | 255 | 202         |
| CDL85-3-2 | 865      | 550 | 1415  | 330 | 255 | 225         |
| CDL85-3   | 865      | 575 | 1440  | 360 | 285 | 268         |
| CDL85-4-2 | 957      | 650 | 1607  | 400 | 310 | 328         |
| CDL85-4   | 957      | 650 | 1607  | 400 | 310 | 328         |
| CDL85-5-2 | 1049     | 650 | 1699  | 400 | 310 | 351         |
| CDL85-5   | 1049     | 650 | 1699  | 400 | 310 | 351         |
| CDL85-6-2 | 1141     | 685 | 1826  | 460 | 340 | 428         |
| CDL85-6   | 1141     | 685 | 1826  | 460 | 340 | 428         |

The overall dimensions of explosion-proof motor is a little different. Pls contact us for details.  
(For CDL85 series, PN25-40/DN100 standard flange is also available if required)

## Performance curve

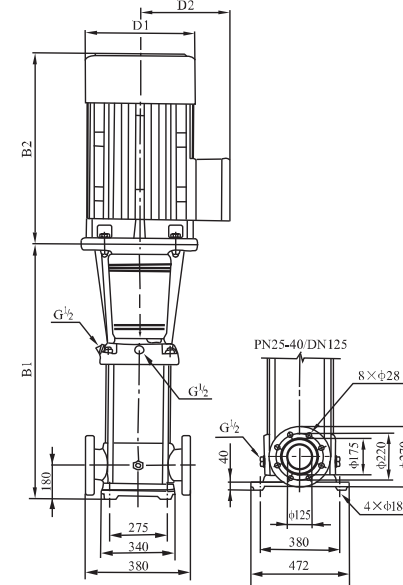
ISO9906 Annex A 2950rpm



## Performance table

| Model      | Driving motor (kW) | Q (m³/h) | 60    | 70    | 80    | 90    | 100   | 110   | 120   | 130   | 140   | 150   |
|------------|--------------------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| CDL120-1   | 11                 | H (m)    | 22    | 21.8  | 21.6  | 21    | 20.5  | 19.5  | 18.5  | 17    | 16    | 15    |
| CDL120-2-2 | 15                 |          | 34    | 33.6  | 33    | 31    | 30.2  | 30    | 28.5  | 27    | 25    | 24    |
| CDL120-2-1 | 18.5               |          | 41    | 40    | 39.5  | 38.5  | 37    | 36.5  | 34.5  | 32.5  | 30    | 27.5  |
| CDL120-2   | 22                 |          | 46    | 45    | 44.5  | 43.5  | 42.4  | 41    | 40    | 38    | 36    | 33.5  |
| CDL120-3-2 | 30                 |          | 57    | 56    | 55    | 53.5  | 52    | 51    | 49    | 46.5  | 43.5  | 41    |
| CDL120-3-1 | 30                 |          | 64    | 63    | 62    | 60    | 58.5  | 57.5  | 55.5  | 52    | 49    | 46    |
| CDL120-3   | 30                 |          | 69.5  | 68.5  | 67.5  | 66    | 64.4  | 62.5  | 61    | 57.5  | 54.5  | 51    |
| CDL120-4-2 | 37                 |          | 80.5  | 79    | 78    | 76    | 73.5  | 72    | 69    | 66    | 61.5  | 58    |
| CDL120-4-1 | 37                 |          | 87    | 86    | 84.5  | 82    | 80    | 78    | 76    | 72    | 68    | 64.5  |
| CDL120-4   | 45                 |          | 92.5  | 91    | 90    | 88    | 85.5  | 83    | 81    | 77    | 73    | 68.5  |
| CDL120-5-2 | 45                 |          | 104.5 | 103   | 101   | 99    | 96    | 93    | 90    | 85.5  | 80.5  | 75.5  |
| CDL120-5-1 | 45                 |          | 110.5 | 109   | 107.5 | 105   | 102   | 100   | 97    | 92    | 86.5  | 83    |
| CDL120-5   | 55                 |          | 115.5 | 114   | 113   | 110   | 107.5 | 104.5 | 101.5 | 96    | 91    | 86    |
| CDL120-6-2 | 55                 |          | 128   | 125.5 | 123   | 121   | 117.3 | 113.5 | 110   | 104.5 | 98.5  | 92.5  |
| CDL120-6-1 | 55                 |          | 134   | 132   | 130.5 | 127   | 124   | 121   | 118   | 111   | 105   | 100   |
| CDL120-6   | 75                 |          | 139   | 137   | 135   | 132   | 128.8 | 126   | 123   | 116   | 110   | 104   |
| CDL120-7-2 | 75                 |          | 151   | 148   | 145.5 | 143   | 138.6 | 134   | 130   | 123.5 | 116.5 | 109   |
| CDL120-7-1 | 75                 |          | 156.5 | 154   | 152   | 148.5 | 144.5 | 141   | 137.5 | 130   | 123   | 116.5 |
| CDL120-7   | 75                 |          | 162.5 | 160.5 | 158.5 | 155   | 151   | 148   | 145   | 137   | 129   | 123   |

## Installation sketch



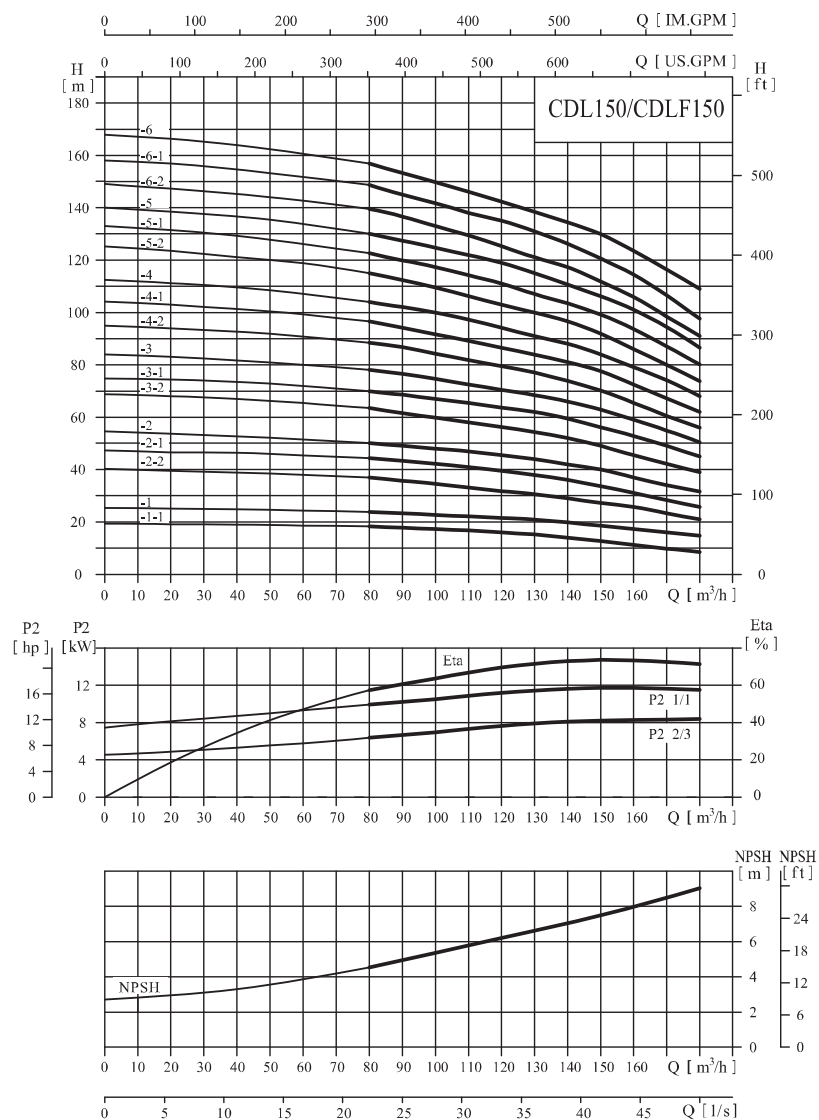
## Size and weight

| Model      | Size(mm) |     |       |     |     | Weight (kg) |
|------------|----------|-----|-------|-----|-----|-------------|
|            | B1       | B2  | B1+B2 | D1  | D2  |             |
| CDL120-1   | 840      | 500 | 1340  | 330 | 255 | 226         |
| CDL120-2-2 | 1000     | 500 | 1500  | 330 | 255 | 250         |
| CDL120-2-1 | 1000     | 550 | 1550  | 330 | 255 | 263         |
| CDL120-2   | 1000     | 575 | 1575  | 360 | 285 | 310         |
| CDL120-3-2 | 1160     | 650 | 1810  | 400 | 310 | 375         |
| CDL120-3-1 | 1160     | 650 | 1810  | 400 | 310 | 375         |
| CDL120-3   | 1160     | 650 | 1810  | 400 | 310 | 375         |
| CDL120-4-2 | 1320     | 650 | 1970  | 400 | 310 | 405         |
| CDL120-4-1 | 1320     | 650 | 1970  | 400 | 310 | 405         |
| CDL120-4   | 1320     | 685 | 2005  | 460 | 340 | 501         |
| CDL120-5-2 | 1480     | 685 | 2165  | 460 | 340 | 509         |
| CDL120-5-1 | 1480     | 685 | 2165  | 460 | 340 | 509         |
| CDL120-5   | 1510     | 760 | 2270  | 540 | 370 | 632         |
| CDL120-6-2 | 1670     | 760 | 2430  | 540 | 370 | 641         |
| CDL120-6-1 | 1670     | 760 | 2430  | 540 | 370 | 641         |
| CDL120-6   | 1670     | 845 | 2515  | 580 | 410 | 757         |
| CDL120-7-2 | 1830     | 845 | 2675  | 580 | 410 | 766         |
| CDL120-7-1 | 1830     | 845 | 2675  | 580 | 410 | 766         |
| CDL120-7   | 1830     | 845 | 2675  | 580 | 410 | 766         |

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

# Performance curve

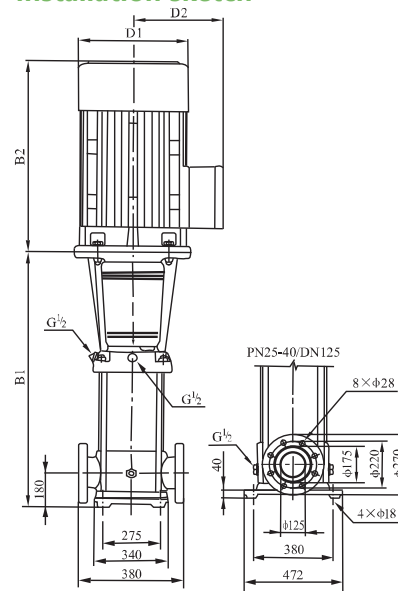
ISO9906 Annex A 2950rpm



# Performance table

| Model      | Driving motor (kW) | Q (m³/h) | 80    | 90    | 100   | 110   | 120   | 130   | 140   | 150   | 160   | 170   | 180  |
|------------|--------------------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| CDL150-1-1 | 11                 | H (m)    | 18.3  | 17.8  | 17.3  | 17    | 16    | 15    | 14    | 12.5  | 11    | 10    | 8.5  |
| CDL150-1   | 15                 |          | 24    | 23    | 22.5  | 22    | 21.5  | 20.5  | 20    | 18.5  | 17    | 16    | 15   |
| CDL150-2-2 | 18.5               |          | 37    | 35.5  | 34    | 33    | 32    | 31    | 29    | 27.5  | 26    | 23    | 21   |
| CDL150-2-1 | 22                 |          | 44.3  | 43    | 42    | 40    | 39    | 38.5  | 37.5  | 35    | 33    | 30    | 27   |
| CDL150-2   | 30                 |          | 50    | 49    | 48    | 47    | 45.5  | 44    | 42    | 40    | 37    | 34    | 32   |
| CDL150-3-2 | 30                 |          | 63.5  | 61    | 59    | 57.5  | 56    | 54.5  | 53    | 49    | 45.5  | 42    | 39   |
| CDL150-3-1 | 37                 |          | 70    | 68    | 67    | 65    | 63    | 62    | 60    | 56    | 53    | 49    | 45   |
| CDL150-3   | 37                 |          | 78    | 76.5  | 75    | 73    | 70.5  | 68    | 66    | 63    | 59    | 55    | 50.5 |
| CDL150-4-2 | 45                 |          | 89    | 87    | 84    | 81.5  | 79    | 77    | 74.5  | 70.5  | 65.5  | 60    | 56   |
| CDL150-4-1 | 45                 |          | 96.5  | 94    | 91.5  | 89    | 86.5  | 84    | 81.5  | 77    | 72.5  | 67    | 62   |
| CDL150-4   | 55                 |          | 104   | 102   | 100   | 97    | 95    | 91    | 88    | 84    | 79.5  | 74    | 68   |
| CDL150-5-2 | 55                 |          | 115.5 | 112   | 109   | 106   | 102.5 | 100   | 97    | 92    | 86    | 79    | 73.5 |
| CDL150-5-1 | 75                 |          | 122.5 | 119.5 | 117   | 113.5 | 111.5 | 107.5 | 104.5 | 99    | 93.5  | 87    | 80   |
| CDL150-5   | 75                 |          | 130   | 127.5 | 125   | 121   | 119   | 115   | 111.5 | 106.5 | 101   | 94.5  | 86.5 |
| CDL150-6-2 | 75                 |          | 140   | 137   | 133   | 130   | 126   | 121   | 118   | 112   | 106   | 98    | 91   |
| CDL150-6-1 | 75                 |          | 148.5 | 145   | 141.7 | 137.5 | 135   | 131   | 127   | 120.5 | 114.5 | 106.5 | 97.5 |
| CDL150-6   | 75                 |          | 157   | 153   | 149   | 145   | 142   | 139.5 | 137   | 130   | 123.5 | 116   | 109  |

# Installation sketch



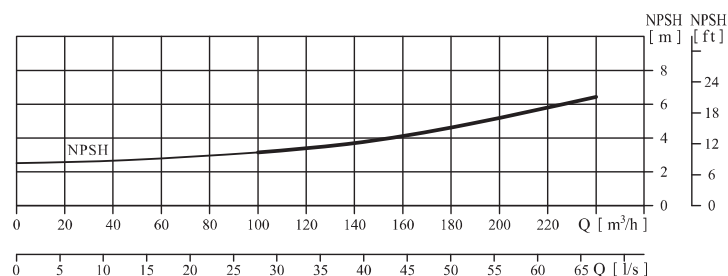
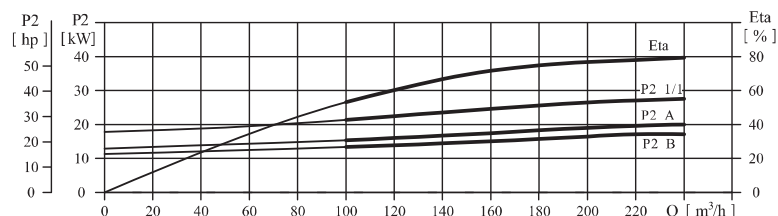
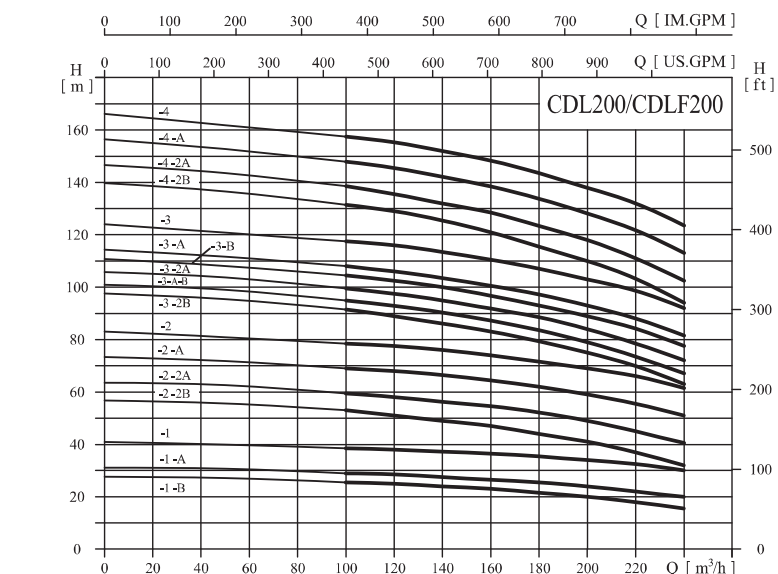
# Size and weight

| Model      | Size(mm) |     |       |     |     | Weight (kg) |
|------------|----------|-----|-------|-----|-----|-------------|
|            | B1       | B2  | B1+B2 | D1  | D2  |             |
| CDL150-1-1 | 840      | 500 | 1340  | 330 | 255 | 227         |
| CDL150-1   | 840      | 500 | 1340  | 330 | 255 | 240         |
| CDL150-2-2 | 1000     | 550 | 1550  | 330 | 255 | 263         |
| CDL150-2-1 | 1000     | 575 | 1575  | 360 | 285 | 311         |
| CDL150-2   | 1000     | 650 | 1650  | 400 | 310 | 364         |
| CDL150-3-2 | 1160     | 650 | 1810  | 400 | 310 | 374         |
| CDL150-3-1 | 1160     | 650 | 1810  | 400 | 310 | 395         |
| CDL150-3   | 1160     | 650 | 1810  | 400 | 310 | 395         |
| CDL150-4-2 | 1320     | 685 | 2005  | 460 | 340 | 502         |
| CDL150-4-1 | 1320     | 685 | 2005  | 460 | 340 | 502         |
| CDL150-4   | 1350     | 760 | 2110  | 540 | 370 | 625         |
| CDL150-5-2 | 1510     | 760 | 2270  | 540 | 370 | 636         |
| CDL150-5-1 | 1510     | 845 | 2355  | 580 | 410 | 752         |
| CDL150-5   | 1510     | 845 | 2355  | 580 | 410 | 752         |
| CDL150-6-2 | 1670     | 845 | 2515  | 580 | 410 | 762         |
| CDL150-6-1 | 1670     | 845 | 2515  | 580 | 410 | 762         |
| CDL150-6   | 1670     | 845 | 2515  | 580 | 410 | 762         |

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

# Performance curve

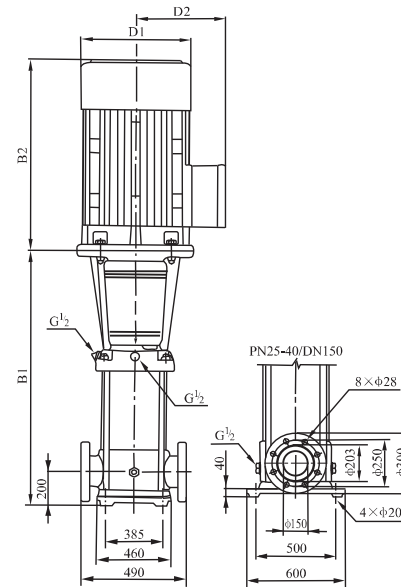
ISO9906 Annex A 2950rpm



# Performance table

| Model        | Driving motor (kW) | Q (m³/h) | 100   | 120   | 140   | 160   | 180   | 200 | 220   | 240   |
|--------------|--------------------|----------|-------|-------|-------|-------|-------|-----|-------|-------|
| CDL200-1-B   | 18.5               | H (m)    | 25.5  | 25    | 24    | 23    | 21.5  | 20  | 18    | 15.5  |
| CDL200-1-A   | 22                 |          | 29    | 28.5  | 27.5  | 26.5  | 25.5  | 24  | 22    | 20    |
| CDL200-1     | 30                 |          | 38.5  | 38    | 37.5  | 36.5  | 35    | 34  | 32.5  | 30    |
| CDL200-2-2B  | 37                 |          | 53    | 51    | 49    | 47    | 44    | 41  | 37    | 32    |
| CDL200-2-2A  | 45                 |          | 59.5  | 58    | 56    | 54    | 52.5  | 49  | 44.5  | 40.5  |
| CDL200-2-A   | 55                 |          | 69    | 68    | 66    | 64    | 62    | 59  | 55.5  | 51    |
| CDL200-2     | 55                 |          | 78.5  | 77.5  | 76    | 74    | 71.5  | 69  | 66    | 61.5  |
| CDL200-3-2B  | 75                 |          | 91.5  | 89    | 86.5  | 83.5  | 79    | 75  | 70    | 63    |
| CDL200-3-A-B | 75                 |          | 95    | 93    | 90    | 87    | 83.5  | 79  | 73.5  | 67    |
| CDL200-3-2A  | 75                 |          | 99.5  | 97.5  | 94.5  | 91.5  | 89    | 84  | 78.5  | 72    |
| CDL200-3-B   | 75                 |          | 104.5 | 102.5 | 100   | 97    | 93    | 89  | 84.5  | 77.5  |
| CDL200-3-A   | 75                 |          | 108   | 106   | 103.5 | 100.5 | 97.5  | 93  | 88    | 81.5  |
| CDL200-3     | 90                 |          | 117.5 | 116   | 113.5 | 110.5 | 107   | 103 | 99    | 92    |
| CDL200-4-2B  | 90                 |          | 131.5 | 129   | 125.5 | 121   | 115.5 | 110 | 103.5 | 94    |
| CDL200-4-2A  | 110                |          | 138.5 | 136   | 132   | 128   | 124   | 118 | 111   | 102.5 |
| CDL200-4-A   | 110                |          | 148   | 145.5 | 142.5 | 138   | 134   | 128 | 122   | 113   |
| CDL200-4     | 110                |          | 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  | D2  |             |
| CDL200-1-B   | 907      | 550  | 1457  | 330 | 255 | 343         |
| CDL200-1-A   | 907      | 575  | 1482  | 360 | 285 | 390         |
| CDL200-1     | 907      | 650  | 1557  | 400 | 310 | 443         |
| CDL200-2-2B  | 1101     | 650  | 1751  | 400 | 310 | 482         |
| CDL200-2-2A  | 1101     | 685  | 1786  | 460 | 340 | 578         |
| CDL200-2-A   | 1131     | 760  | 1891  | 540 | 370 | 710         |
| CDL200-2     | 1131     | 760  | 1891  | 540 | 370 | 710         |
| CDL200-3-2B  | 1325     | 845  | 2170  | 580 | 410 | 845         |
| CDL200-3-A-B | 1325     | 845  | 2170  | 580 | 410 | 845         |
| CDL200-3-2A  | 1325     | 845  | 2170  | 580 | 410 | 845         |
| CDL200-3-B   | 1325     | 845  | 2170  | 580 | 410 | 845         |
| CDL200-3-A   | 1325     | 845  | 2170  | 580 | 410 | 845         |
| CDL200-3     | 1325     | 895  | 2220  | 580 | 410 | 921         |
| CDL200-4-2B  | 1519     | 895  | 2414  | 580 | 410 | 938         |
| CDL200-4-2A  | 1519     | 1140 | 2659  | 645 | 550 | 1148        |
| CDL200-4-A   | 1519     | 1140 | 2659  | 645 | 550 | 1148        |
| CDL200-4     | 1519     | 1140 | 2659  | 645 | 550 | 1148        |

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

MEMO

Handwriting practice lines on the left page. The page contains 28 horizontal dashed lines for writing. A solid horizontal line is positioned between the 14th and 15th dashed lines, serving as a section separator.

MEMO

Handwriting practice lines on the right page. The page contains 28 horizontal dashed lines for writing. A solid horizontal line is positioned between the 14th and 15th dashed lines, serving as a section separator.