Wita

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The **dynamics** of water



VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

VDL, VDLF, VDLS SERIES
50 Hz





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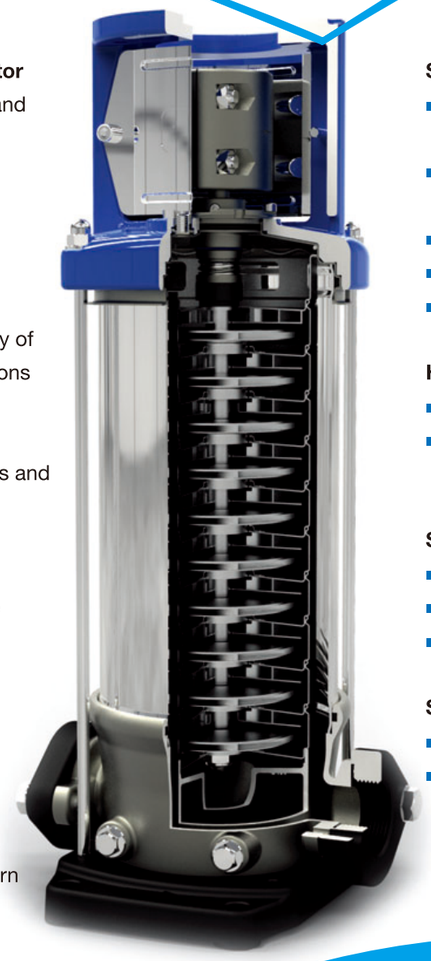
www.witapumpe.com

technical features choice

Maintenance-free electric motor
- Extensive choice of voltages and frequencies
- IP55
- Insulation class F
- Motor efficiency IE2
- Temperature safeguard, ≥ 3 kW PTC
- Can be equipped with a variety of motor types, -brands, or -options

Shaft seal
- Extensive choice of elastomers and shaft seals
- Exchangable without disassembling the pump
- Fixed, Easy Access, Cartridge

Versatile pump casing
- Cast material
- Easy to connect
- VC-design with rigid flanges
- V and VS design with collar flanges
- E-design with built-in non return valve
- Draining without residue



Smart plugs
- For filling, draining, de-aerating and measuring
- Separate measuring suction and discharge pressure (Δp)
- Stainless steel AISI 304 or 316
- By-pass possible
- Durable sealing

Hydraulic assembly
- Highest efficiency in the market
- High quality stainless steel AISI 304 or 316

Solid construction shroud
- Stainless steel, robust housing
- Standard pressure durability PN 40
- Low vibration and noise

Solid base plate
- Powder coated 100 µm
- Stainless steel optional

It is important to be responsible when it comes to man and the environment, we translate these values into important product characteristics.

Highest possible efficiency: Energy savings
- Unique hydraulic design: high pressure per impeller at high efficiency
- Efficiency up to 79%
- Standard high efficiency motor IE2
- Optimum flow fully attuned to standard pipe diameters
- Optimum coherence between models

Low NPSH
- Extended life span as a result of favourable suction conditions
- NPSH-level 0.6 up to 4.6 (m)

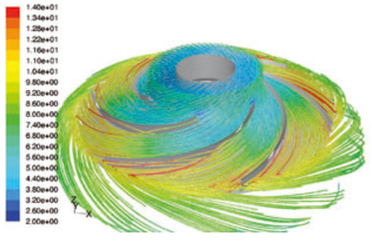
Modular construction
- Wide range of options
- All specials are standard
- Short delivery times

Durable solution
- High quality materials
- 100% adjustable to application; long life span
- Sustainable production process; modern welding and production techniques
- Production monitoring; ISO 9001 certified

Ecodesign
- High score within ErP guideline
- Sustainable material
- 100% recyclable
- Minimal waste production process
- ISO 14001 certified

Noise reduction
- Negligible noise as a result of optimisation of pump's flow profile and special design of motor cooling fan





Content

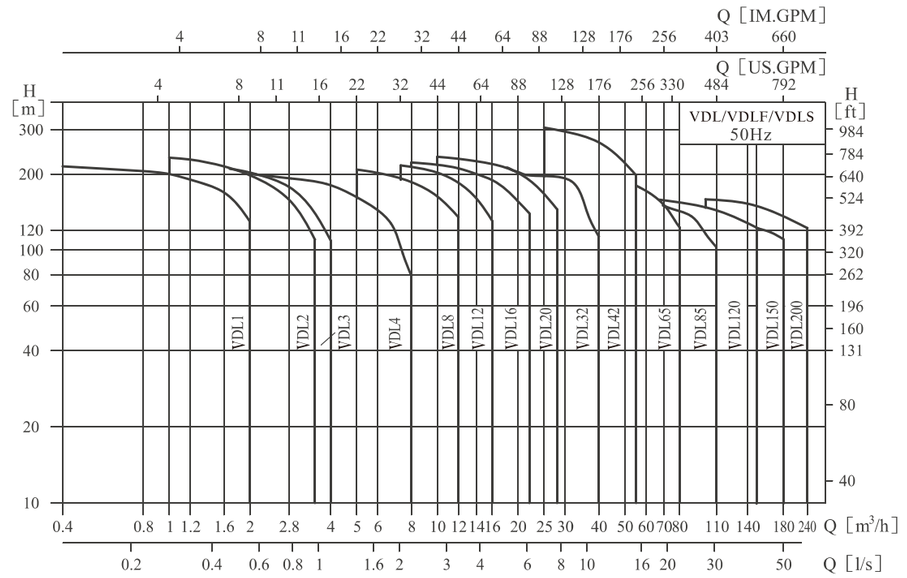
General Data

Performance scope ---- 2
Product range ---- 2
Pump ---- 3
Max. working pressure ---- 4
Max. Ambient temperature ---- 4
Curve illustration ---- 5
Performance curve ---- 5
Min. Inlet pressure NPSH ---- 6
Operation in parallel ---- 6
Material ---- 7

Technical Data

VDL/VDLF/VDLS 1,50Hz ---- 11
VDL/VDLF/VDLS 2,50Hz ---- 13
VDL/VDLF/VDLS 3,50Hz ---- 15
VDL/VDLF/VDLS 4,50Hz ---- 17
VDL/VDLF/VDLS 8,50Hz ---- 19
VDL/VDLF/VDLS 12,50Hz ---- 21
VDL/VDLF/VDLS 16,50Hz ---- 23
VDL/VDLF/VDLS 20,50Hz ---- 25
VDL/VDLF/VDLS 32,50Hz ---- 27
VDL/VDLF/VDLS 42,50Hz ---- 29
VDL/VDLF/VDLS 65,50Hz ---- 31
VDL/VDLF/VDLS 85,50Hz ---- 33
VDL/VDLF/VDLS 120,50Hz ---- 35
VDL/VDLF/VDLS 150,50Hz ---- 37
VDL/VDLF/VDLS 200,50Hz ---- 39

Performance scope



Product range

Description	VDL1	VDL2	VDL3	VDL4	VDL8	VDL12	VDL16	VDL20	VDL32	VDL42	VDL65	VDL85	VDL120	VDL150	VDL200
Rated flow [m³/h]	1	2	3	4	8	12	16	20	32	42	65	85	120	150	200
Rated flow [l/s]	0.28	0.56	0.83	1.1	2.2	3.3	4.4	5.6	8.9	11.7	18	24	33	41.6	55.6
Flow range [m³/h]	0.4-2	1-3.5	1.2-4	1.5-7	5-12	7-16	8-22	10-28	16-40	25-55	30-80	50-110	60-150	80-180	100-240
Flow range [l/s]	0.11-0.56	0.28-0.97	0.33-1.1	0.42-1.9	1.4-3.3	1.9-4.4	2.2-6.1	2.8-7.8	4.4-11.1	6.9-15.3	8.3-22.2	3.8-30.5	16.7-41.7	22-50	27.8-66.7
Max. pressure [bar]	21	23	22	21	21	22	22	23	26	30	22	17	16	16	16
Motor power [kW]	0.37-2.2	0.37-3	0.37-3	0.37 4	0.75-7.5	1.5-11	2.2-15	1.1-18.5	1.5-30	3.0-45	4.0-45	5.5-45	1-75	I 1-75	18.5-110
Temperature range [℃]	-15~+120														
Max. efficiency [%]	44	46	54	57	62	63	66	69	73	75	76	77	74	73	79
Type															
VDL	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
VDLF/VDLS	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
VDL Pipe connection															
DIN Flange	DN25	DN25	DN25	DN32	DN40	DN50	DN50	DN50	DN65	DN80	DN100	DN100	DN125	DN125	DN150
Oval Flange	G1	G1	GI	G1¼	G1½										
VDLF/VDLS Pipe connection															
DIN Flange	DN25	DN25	DN25	DN32	DN40	DN50	DN50	DN50	DN65	DN80	DN100	DN100	DN125	DN125	DN150
Cutting Ferrule joint	DN32	DN32	DN32	DN32	DN50	DN50	DN50	DN50							
pipe thread	ZG1¼	ZG1¼	ZG1¼	ZG1¼	ZG2	ZG2	ZG2	ZG2							

Pump

VDL/VDLF/VDLS 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 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

01. Full enclosed air blast two pole standard motor
02. Protection class: IP55
03. Insulation class: F
04. Standard voltage:50Hz: 1 × 220–230/240V
    3 × 200–220/346–380V
    3 × 220–240/380–415V
    3 × 380–415V

Application

VDL/VDLF/VDLS 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. VDL type is applicable to conveying non corrosive liquid, while VDLF/VDLS is suitable for slightly corrosive liquid.

01. Water supply: Water filter and transport in Waterworks, boosting of main pipeline, boosting in high rise buildings.
02. Industrial boosting: Process flow water system, cleaning system, high pressure washing system, fire fighting system.
03. Industrial liquid conveying: Cooling and air conditioning system, boiler water supply and condensing system, machine associated purpose, acids and alkali.
04. Water treatment: U1trafiltration system, reverse osmosis system, distillation system, separator, swimming pool.
05. Irrigation: Farmland irrigation, spray irrigation, drip ping irrigation.

Operation conditions

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

Definition of Model

VDL/VDLF/VDLS 1,2,3,4,8,12,16 and 20

VDL F 8 - 2 / 1

- 1 — Number of impeller
- 2 — Stage
- 8 — Rated flow(m^3/h)
- F — (Common type omitted)Flow passage components are of stainless steel 304(F) or 316L(S)
- VDL — Light vertical multistage centrifugal pump

VDL/VDLF/VDLS 32,42,65,85,120 and 150

VDL F 32 - 30 - 2

- 2 — Number of impeller
- 30 — Stage X 10
- 32 — Rated flow(m^3/h)
- F — (Common type omitted)Flow passage components are of stainless steel 304(F) or 316L(S)
- VDL — Light vertical multistage centrifugal pump

VDL/VDLF/VDLS 200

VDL F 200 -30- 2A- B

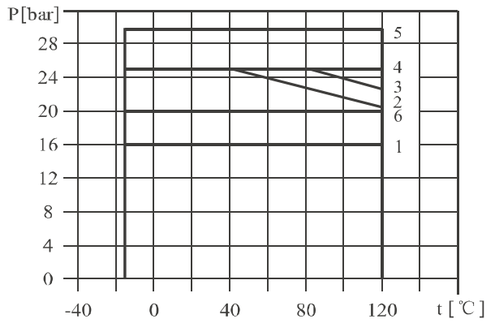
- B — One small impeller B
- 2A — Two small impellers A
- 30 — Stage X 10
- 200 — Rated flow(m^3/h)
- F — (Common type omitted)Flow passage components are of stainless steel 304(F) or 316L(S)
- VDL — Light vertical multistage centrifugal pump

Max. Working pressure

Model	Gurve number
VDL1,2,3,4 Flange	2
VDL1,2,3,4 Oval Flange	1
VDLF/VDLS 1,2,3,4	2
VDL8,12,16,20 Flange	3
VDL8 Oval Flange	1
VDLF/VDLS 8,12,16,20	3
VDL,VDLF/VDLS 32	
32-10-1~32-70 32-80-2~32-120 32-130~32-140	1(*) 4(*) 5
VDL,VDLF/VDLS 42	
42-10-1--42-60 42-70-2~42-90 42-100-2~42-130-2	1(*) 4(*) 5
VDL,VDLF/VDLS 65	
65-10-1~65-50 65-60-2~65-80-1	1(**) 4
VDL,VDLF/VDLS 85	
85-10-1~85-50-2 85-50~85-60	1(**) 4
VDL,VDLF/VDLS120,150,200	6

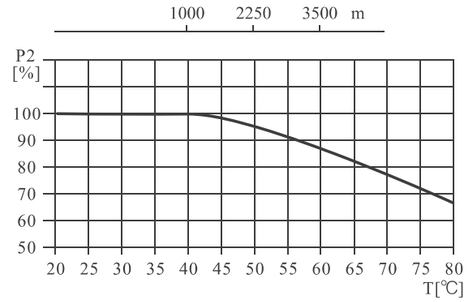
*: For curve 5, need to specify especially;
**: For curve 4, need to specify especially.

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

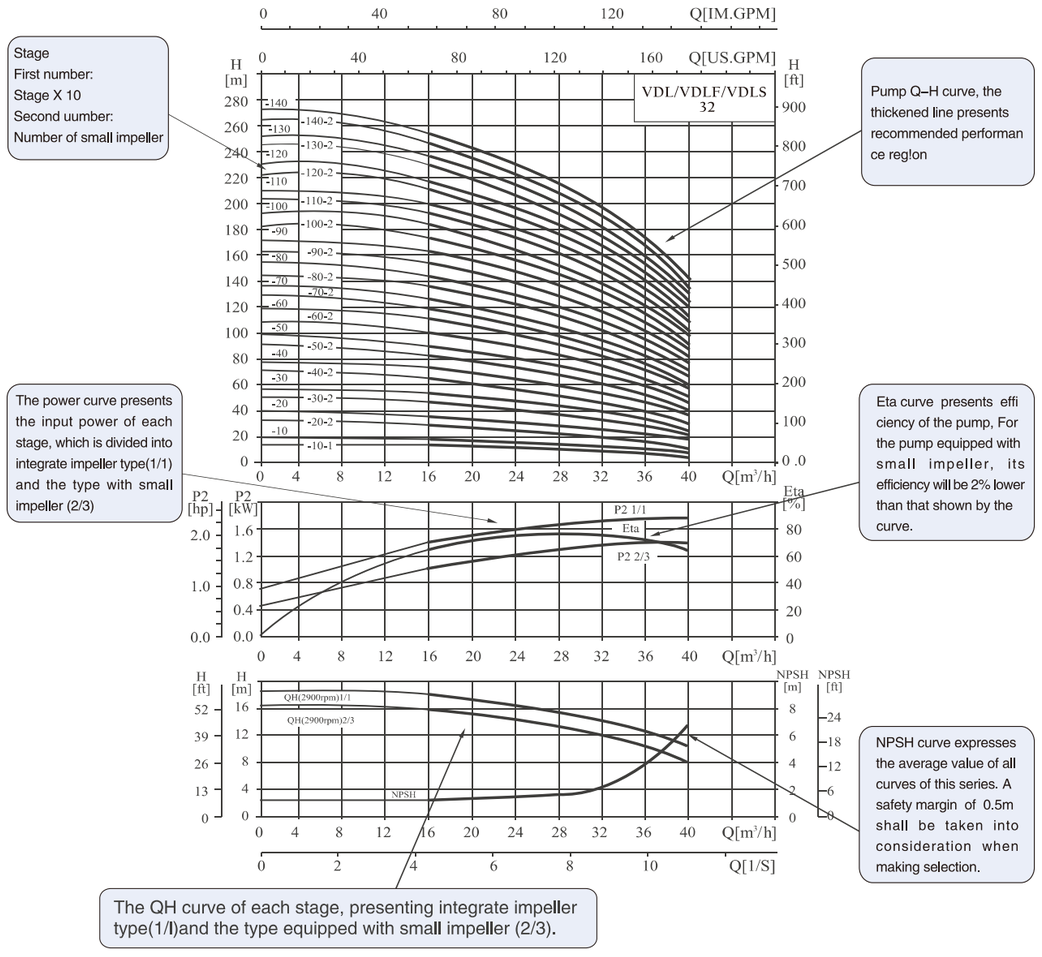


Max. Ambient temperature

When the pump operates under ambient temperature higher than 40℃ or under altitude higher than l000m,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 abovesaid conditions, it should be equipped with motor of higher power.



Curve illustration



Performance curve

Following conditions are suitable for the performance curves shown bellow:

01. All curves are based on the measured values of 50Hz: constant motor speed 2900rpm or 2950rpm.
02. Curve tolerance in conformity with ISO9906 Annex A.
03. Measurement is done with 20℃ air free water, kinematic viscosity of 1mm²/sec.
04. The operation of pump shall refer to the performance region indicated by the thickened curve to prevent overheating due to too small flow rate or overload of motor due to too large flow rate.

Minimum inlet pressure NPSH

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

H=Pb X 10.2–NPSH–Hf–Hv–Hs

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

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

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

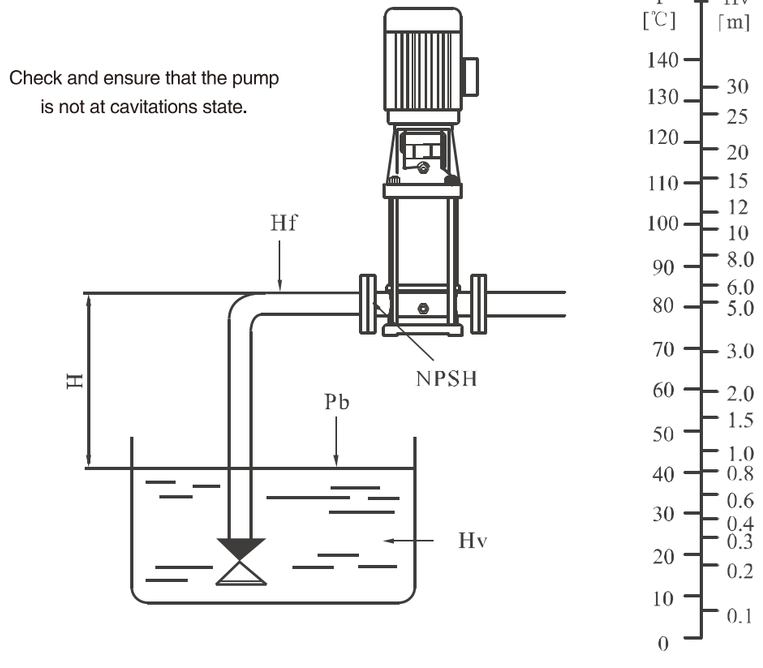
Hf=Pipeline loss at the inlet [m]

Hv=Steam pressure [m]

Hs=Safety margin=Minimum 0.5m delivery head

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

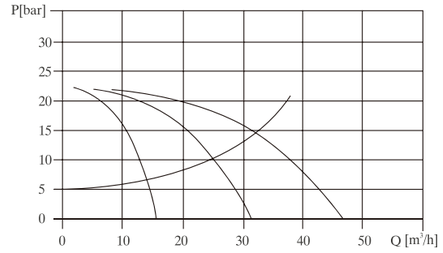
In case the calculated result H is negative, a delivery head of min. Inlet pressure is necessary.



Operation in parallel

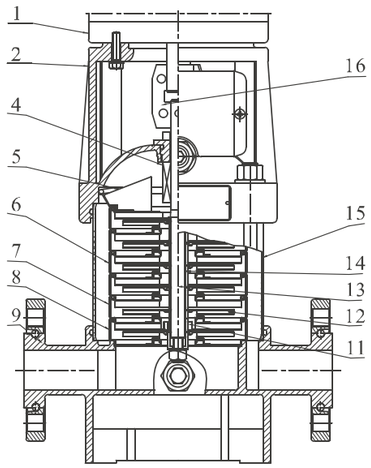
Connecting several pumps in parallel running will benefit much more than running a single large pump.

01. Applicable to different working states necessary in avariable flow system.
02. Increasing the possibility of water supply when the pump is in failure. Because in case of pump failure, onlypart of the system flow is effected.

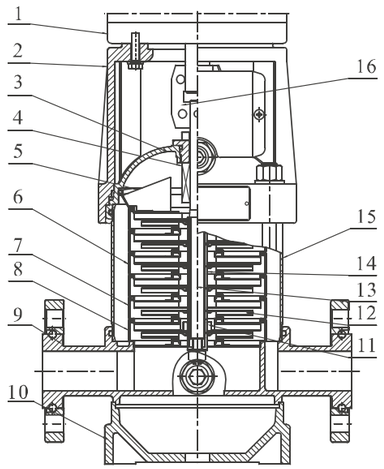


Two pumps or more can be connected in parallel running if necessary.

Sectional drawing VDL/VDLF/VDLS 1,2,3,4



VDL

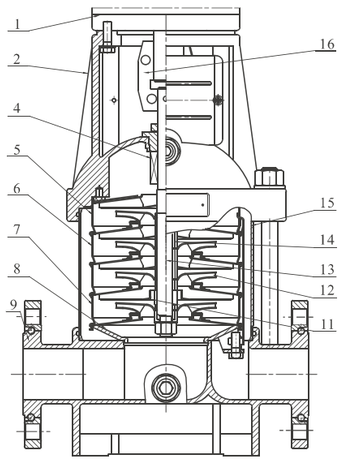


VDLF/VDLS

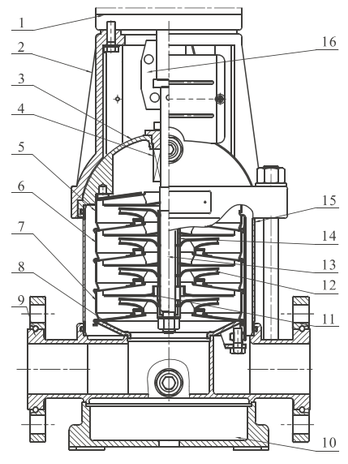
Material VDL/VDLF/VDLS 1,2,3,4

NO	Name	Material	AISI/ASTM
1	Motor	Cast iron	
2	Pump head	Cast iron	ASTM25B
4	Mechanical seal	Silicon carbide	
5	Top diffuser	Stainless steel	AISI304 for VDL/VDLF AISI316L for VDLS
6	Diffuser	Stainless steel	AISI304 for VDL/VDLF AISI316L for VDLS
7	Support diffuser	Stainless steel	AISI304 for VDL/VDLF AISI316L for VDLS
8	Inducer	Stainless steel	AISI304 for VDL/VDLF AISI316L for VDLS
11	Bearing	Tungsten carbide	
12	Impeller	Stainless steel	AISI304 for VDL/VDLF AISI316L for VDLS
13	Shaft	Stainless steel	AISI431
14	Impeller sleeve	Stainless steel	AISI304 for VDL/VDLF AISI316L for VDLS
15	Cylinder	Stainless steel	AISI304 for VDL/VDLF AISI316L for VDLS
16	Coupling	Carbon steel	
3	Seal base	Stainless steel	AISI304 for VDL/VDLF AISI316L for VDLS
9	Inlet and outlet chamber	Cast iron / Stainless steel	ASTM25B for VDL AISI304 for VDLF AISI316L for VDLS
10	Base plate	Cast iron	ASTM25B

Sectional drawing VDL/VDLF/VDLS 8,12,16,20



VDL

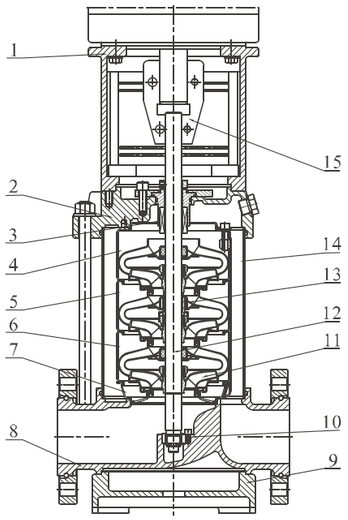


VDLF/VDLS

Material VDL/VDLF/VDLS 8,12,16,20

NO	Name	Material	AISI/ASTM
1	Motor	Cast iron	
2	Pump head	Cast iron	ASTM25B
4	Mechanical seal	Silicon carbide	
5	Top diffuser	Stainless steel	AISI304 for VDL/VDLF AISI316L for VDLS
6	Diffuser	Stainless steel	AISI304 for VDL/VDLF AISI316L for VDLS
7	Support diffuser	Stainless steel	AISI304 for VDL/VDLF AISI316L for VDLS
8	Inducer	Stainless steel	AISI304 for VDL/VDLF AISI316L for VDLS
11	Bearing	Tungsten carbide	
12	Impeller	Stainless steel	AISI304 for VDL/VDLF AISI316L for VDLS
13	Shaft	Stainless steel	AISI431
14	Impeller sleeve	Stainless steel	AISI304 for VDL/VDLF AISI316L for VDLS
15	Cylinder	Stainless steel	AISI304 for VDL/VDLF AISI316L for VDLS
16	Coupling	Carbon steel	
3	Seal base	Stainless steel	AISI304 for VDL/VDLF AISI316L for VDLS
9	Inlet and outlet chamber	Stainless steel	ASTM25B for VDL AISI304 for VDLF AISI316L for VDLS
10	Base plate	Cast iron	ASTM25B

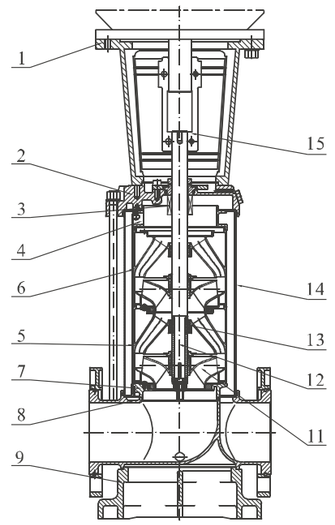
Sectional drawing VDL/VDLF/VDLS 32,42,65,85



Material VDL/VDLF/VDLS 32,42,65,85

NO	Name	Material	AISI/ASTM
1	Bracket	Cast iron	ASTM25B
3	Mechanical seal	Silicon carbide	
4	Top diffuser	Stainless steel	AISI304 for VDL/VDLF AISI316L for VDLS
5	Support diffuser	Stainless steel	AISI304 for VDL/VDLF AISI316L for VDLS
6	Diffuser	Stainless steel	AISI304 for VDL/VDLF AISI316L for VDLS
7	Inducer	Stainless steel	AISI304 for VDL/VDLF AISI316L for VDLS
9	Base plate	Cast iron	ASTM25B
10	Bottom bearing	Tungsten carbide	
11	Impeller	Stainless steel	AISI304 for VDL/VDLF AISI316L for VDLS
12	Shaft	Stainless steel	AISI431
13	Intermediate bearing	Tungsten carbide	
14	Cylinder	Stainless steel	AISI304 for VDL/VDLF AISI316L for VDLS
15	Coupling	Carbon steel	
	Rubber parts	NBR	
2	Pump head	Cast iron / Stainless steel	ASTM25B for VDL AISI304 for VDLF AISI316L for VDLS
8	Inlet and outlet chamber	Cast iron / Stainless steel	ASTM25B for VDL AISI304 for VDLF AISI316L for VDLS

Sectional drawing VDL/VDLF/VDLS 120,150,200

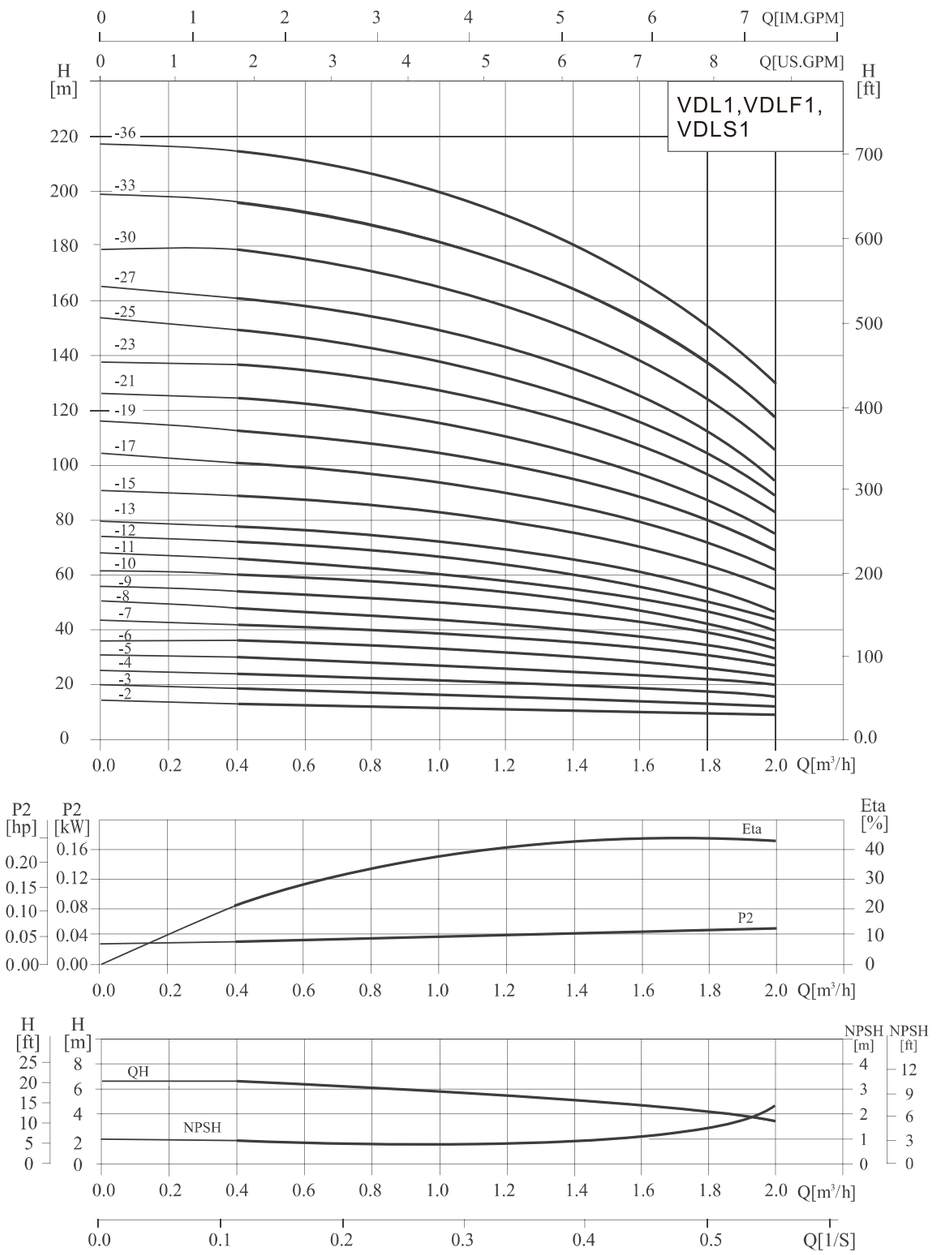


Material VDL/VDLF/VDLS 120,150,200

NO	Name	Material	AISI/ASTM
1	Bracket	Cast iron	ASTM25B
3	Mechanical seal	Silicon carbide	
4	Discgarge	Stainless steel	AISI304 for VDL/VDLF AISI316L for VDLS
5	Support diffuser	Stainless steel	AISI304 for VDL/VDLF AISI316L for VDLS
6	Diffuser	Stainless steel	AISI304 for VDL/VDLF AISI316L for VDLS
7	Inducer	Stainless steel	AISI304 for VDL/VDLF AISI316L for VDLS
9	Base plate	Cast iron	ASTM 80-55-06
10	Impeller	Stainless steel	AISI304 for VDL/VDLF AISI316L for VDLS
11	Shaft	Stainless steel	AISI431
13	Bearing	Tungsten carbide	
14	Cylinder	Stainless steel	AISI304 for VDL/VDLF AISI316L for VDLS
15	Coupling	Carbon steel	
	Rubber parts	NBR	
2	Pump head	Cast iron / Stainless steel	ASTM80-55-06 for VDL AISI304 for VDLF AISI316L for VDLS
8	Inlet and outlet chamber	Cast iron / Stainless steel	ASTM80-55-06 for VDL AISI304 for VDLF AISI316L for VDLS

Performance curve

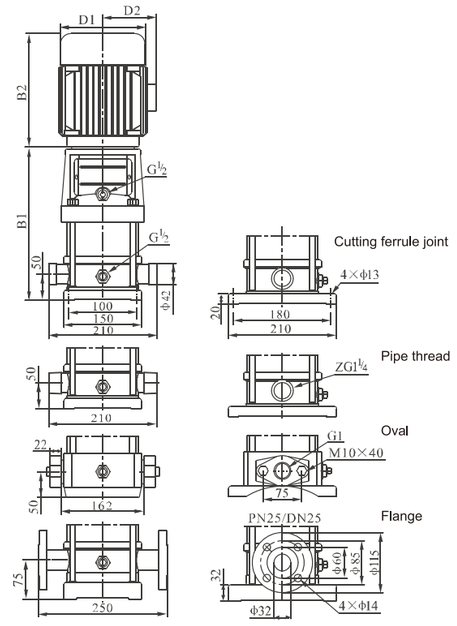
ISO9906 Annex A 2900rpm



Performance table

Model	Driving motor (kW)	Driving motor (hp)	Q (m^3/h)	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.0
VDL1-2	0.37	0.5	H (m)	13	12.5	12	11.5	11	10.5	10	9.5	9
VDL1-3	0.37	0.5		19	18	17.5	17	16.5	16	15	14	12
VDL1-4	0.37	0.5		24	23.5	23	22.5	21.5	21	19	18	16
VDL1-5	0.37	0.5		30	29.6	29	28	27	26	24	22	20
VDL1-6	0.37	0.5		36	35.5	35	33.5	33	31	28	26	23
VDL1-7	0.37	0.5		42	41	40.5	39	38	36	33	30	27
VDL1-8	0.55	0.75		48	47	46	45	43	41	38	34	30
VDL1-9	0.55	0.75		54	53	52	51	49	46	43	39	33
VDL1-10	0.55	0 75		60	59	58	57	54	51	48	43	36
VDL1-11	0.55	075		66	65	63	61	59	56	52	47	40
VDL1-12	0.75	1		72	71	69	67	64	61	57	51	44
VDL1-13	0.75	1		78	77	75	73	69	66	62	55	47
VDL1-15	0.75	1		89	88	86	84	79	76	71	63	55
VDL1-17	1.1	1.5		I01	99	97	95	89	86	80	71	62
VDL1-19	1.1	1.5		113	110	108	106	99	96	89	79	69
VDL1-21	1.1	1.5		124	122	120	117	110	106	98	87	75
VDL1-23	1.1	1.5		137	133	131	128	121	116	I07	96	82
VDL1-25	1.5	2		149	145	143	139	131	126	116	104	89
VDL1-27	1.5	2		161	157	155	150	141	136	125	112	95
VDL1-30	1.5	2		178	175	17I	166	157	150	139	124	106
VDL1-33	2.2	3		196	192	188	183	173	165	154	137	118
VDL1-36	2.2	3		214	210	205	200	190	181	169	151	130

Installation sketck



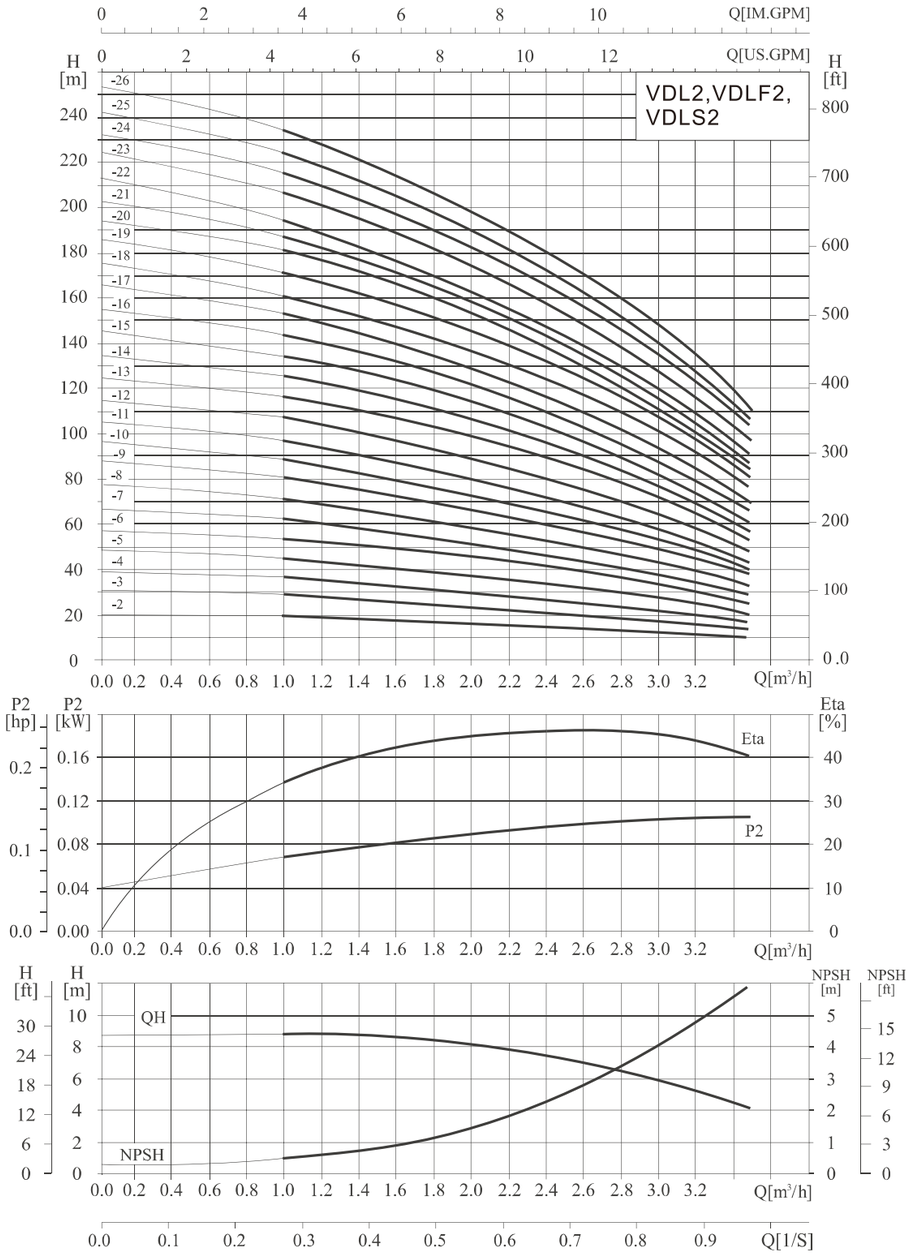
VDL1-25 ~ 1-36 sub-connection of pipeline has no oval flange connection.
The overall dimensions of the single-phase motor and explosion-proof motor are a little different. Pls contact us for details.

Size and weight

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

Performance curve

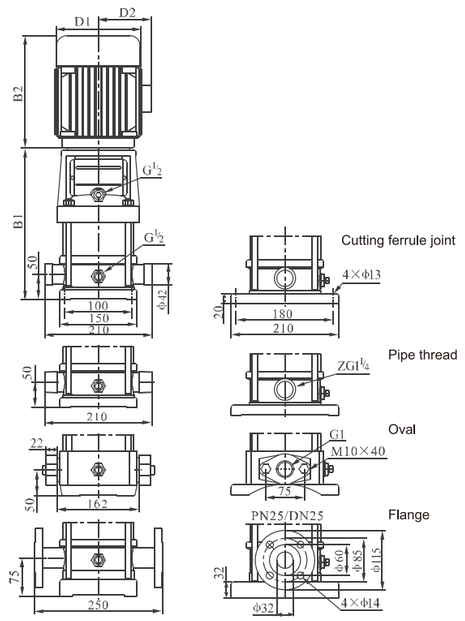
ISO9906 Annex A 2900rpm



Performance table

Model	Driving motor (kW)	Driving motor (hp)	Q (m^3/h)	1	1.2	1.3	2.0	2.4	2.8	3.2	3.5
VDL2-2	0.37	0.5	H (m)	18	17	16	15	13	12	10	8
VDL2-3	0.37	0.5		27	26	24	22	20	18	15	12
VDL2-4	0.55	0.75		36	35	33	30	26	24	20	16
VDL2-5	0.55	0.75		45	43	40	37	33	30	24	20
VDL2-6	075	1		53	52	50	45	40	36	30	24
VDL2-7	0.75	1		63	61	57	52	47	41	35	28
VDL2-9	1.1	1.5		80	78	73	67	61	54	45	37
VDL2-11	1.1	1.5		98	95	89	82	73	64	54	44
VDL2-13	1.5	2		116	114	106	98	89	78	65	52
VDL2-15	1.5	2		134	130	123	112	100	90	73	60
VDL2-18	2.2	3		161	157	148	136	121	108	91	76
VDL2-22	2.2	3		197	192	180	165	148	130	110	90
VDL2-26	3.0	4		232	228	214	198	179	158	130	110

Installation sketck



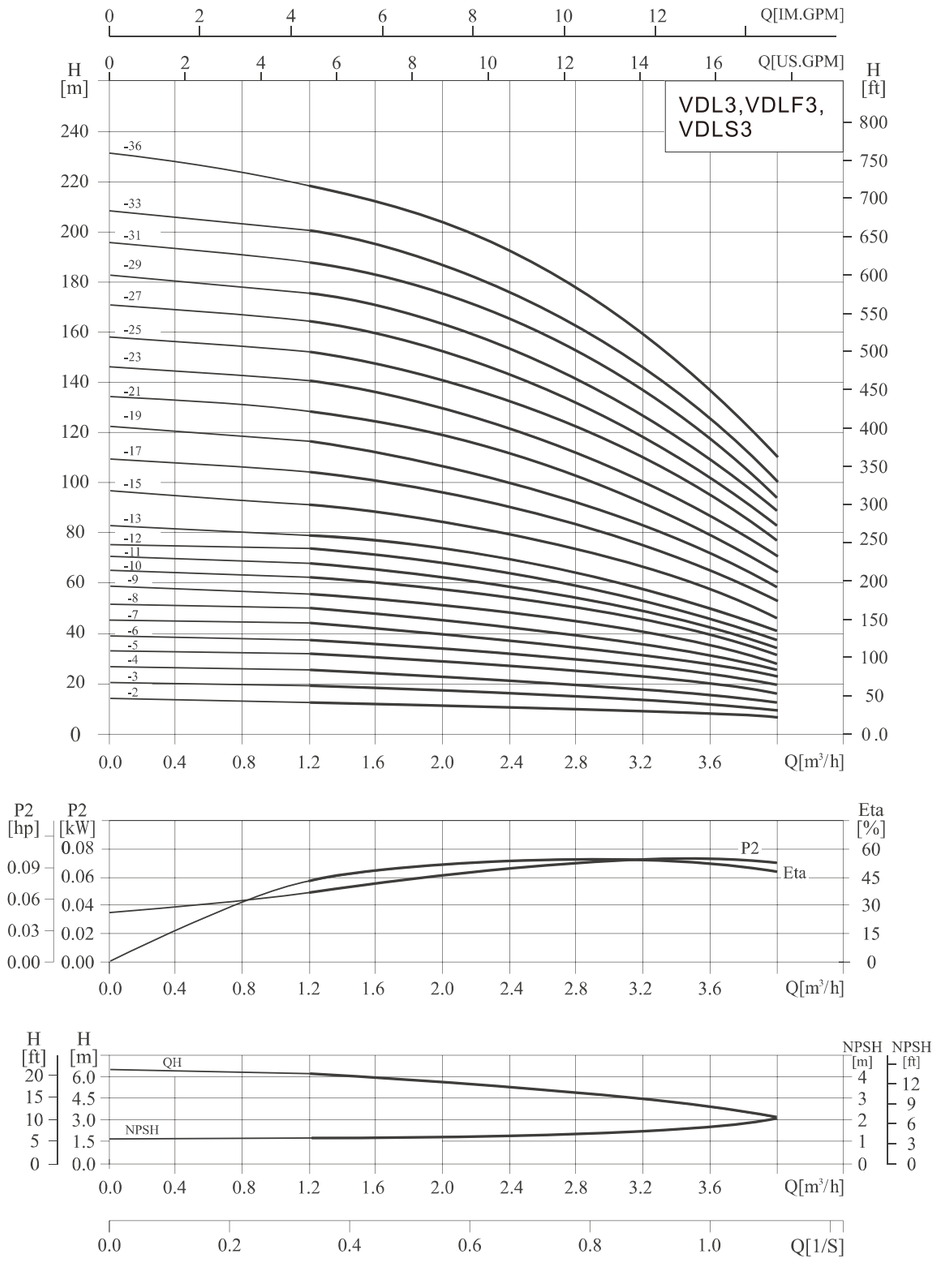
Size and weight

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

VDL2-18 ~ 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

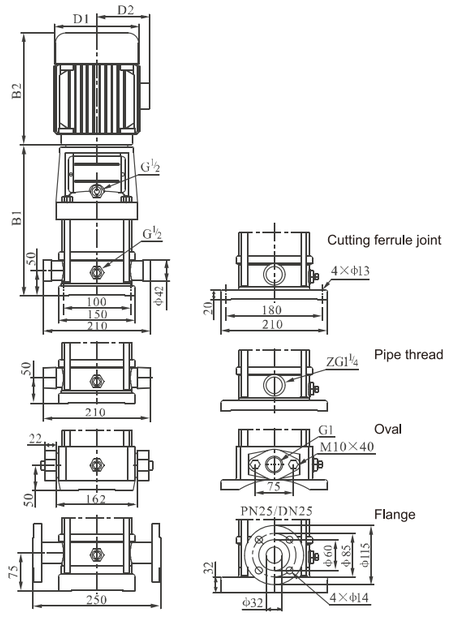
ISO9906 Annex A 2900rpm



Performance table

Model	Driving motor (kW)	Driving motor (hp)	Q (m^3/h)	1.2	1.6	2.0	2.4	2.8	3.0	3.2	3.6	4.0
VDL3-2	0.37	0.5	H (m)	12.5	11.5	11	10.5	10	9	8	7	6
VDL3-3	0.37	0.5		19	18.5	17.5	16.5	15	14	13	11	9
VDL3-4	0.37	0.5		25	24	23	21.5	20	19	18	15	12
VDL3-5	0.37	0.5		31	30	29	27	25	23	22	19	16
VDL3-6	0.55	0.75		36	35	34	32	30	28	27	23	19
VDL3-7	0.55	0.75		43	41	39	37	34	32	31	27	22
VDL3 -8	0.75	1		49	47	45	43	39	37	35	31	25
VDL3-9	0.75	1		55	53	51	48	45	42	4O	35	28
VDL3-10	0.75	1		61	59	57	54	50	47	45	39	31
VDL3-11	1.1	1.5		67	64	61	58	54	51	49	42	34
VDL3-12	1.1	1.5		73	70	67	63	58	55	52	45	37
VDL3-13	1.1	1.5		78	76	73	69	64	60	57	49	40
VDL3-15	1.1	1.5		90	88	84	79	73	69	66	57	46
VDL3-17	1.5	2		103	100	96	90	83	79	75	64	52
VDL3-19	1.5	2		115	112	107	100	92	88	83	72	58
VDL3-21	2.2	3		128	124	119	112	102	98	91	79	64
VDL3-23	2.2	3		140	135	130	122	112	107	100	86	70
VDL3-25	2.2	3		151	147	141	131	122	116	109	94	76
VDL3-27	2.2	3		164	159	152	143	132	124	117	101	82
VDL3-29	2.2	3		175	170	163	153	142	133	126	109	88
VDL3-31	3.0	4		187	182	175	165	153	142	135	116	94
VDL3-33	3.0	4		199	194	187	176	163	151	145	125	100
VDL3-36	3.0	4		218	212	204	192	178	168	159	137	109

Installation sketck



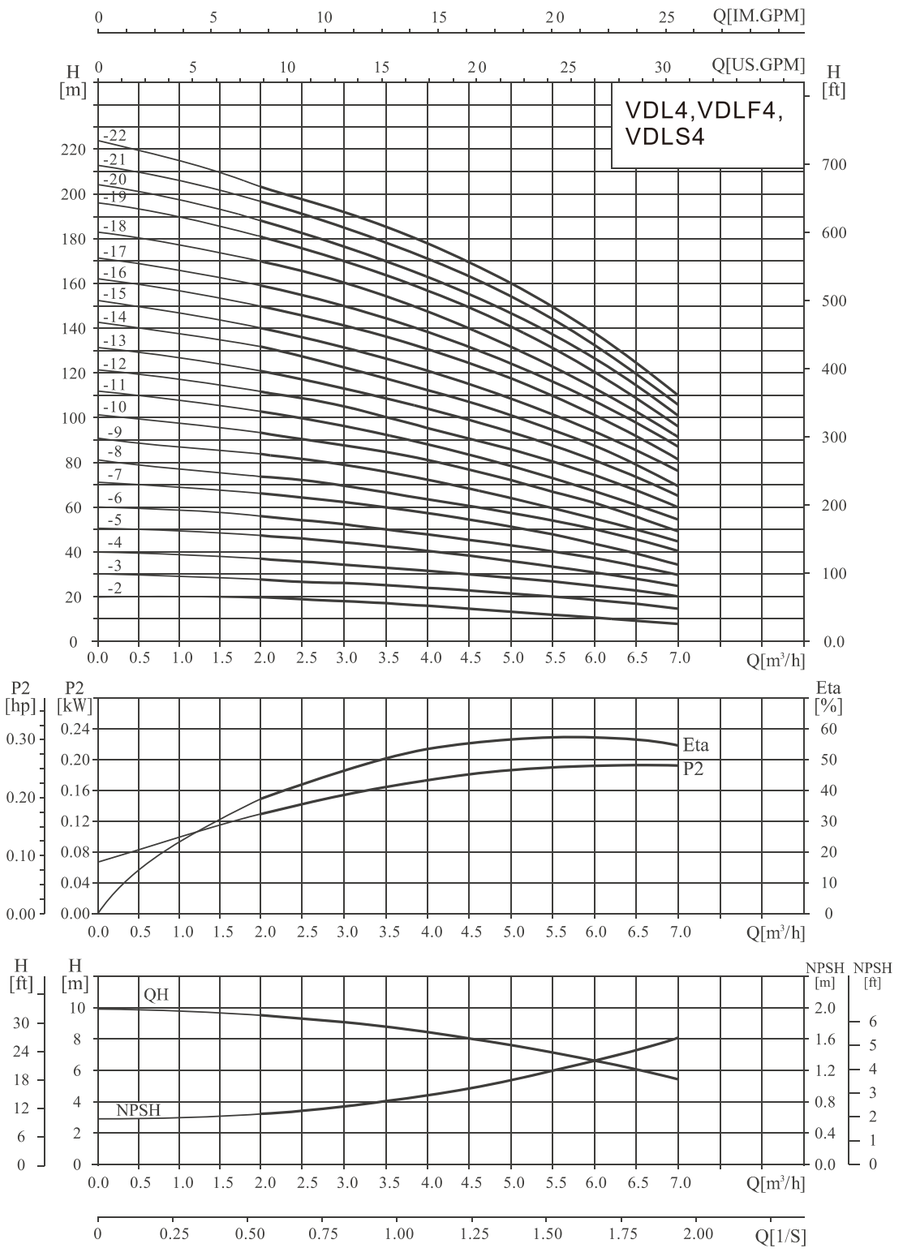
Size and weight

Model	Size (mm) B1	B2	B1+B2	D1	D2	Weight (kg)
VDL3-2	258	210	468	148	117	20
VDL3-3	276	210	486	148	117	20
VDL3-4	294	210	504	148	117	21
VDL3-5	312	210	522	148	117	21
VDL3-6	330	210	540	148	117	23
VDL3-7	348	210	558	148	117	24
VDL3 -8	376	245	621	170	142	27
VDL3-9	394	245	639	170	142	28
VDL3-10	412	245	657	170	142	28
VDL3-11	430	245	675	170	142	29
VDL3-12	448	245	693	170	142	30
VDL3-13	466	245	711	170	142	31
VDL3-15	502	245	747	170	142	32
VDL3-17	548	290	838	190	155	38
VDL3-19	584	290	874	190	155	39
VDL3-21	620	290	910	190	155	42
VDL3-23	656	290	946	190	155	43
VDL3-25	692	290	982	190	155	44
VDL3-27	728	290	1018	190	155	45
VDL3-29	764	290	1054	190	155	46
VDL3-31	810	315	1125	197	165	54
VDL3-33	846	315	1161	197	165	55
VDL3-36	900	315	1215	197	165	57

VDL3-25 ~ 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.

Performance curve

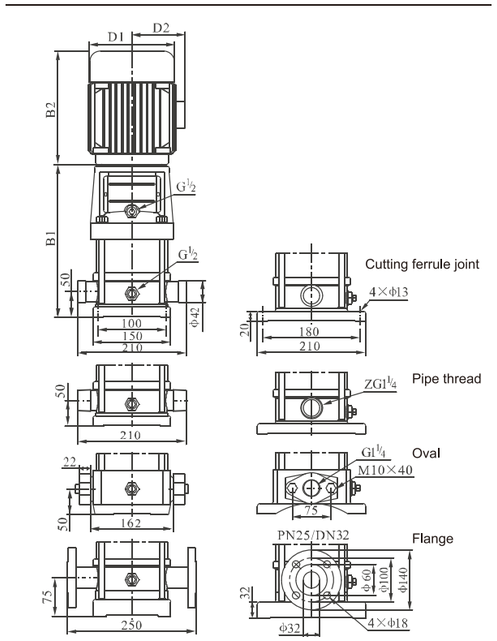
ISO9906 Annex A 2900rpm



Performance table

Model	Driving motor (kW)	Driving motor (hp)	Q (m^3/h)	1.5	2.0	3.0	4.0	5.0	6.0	7.0
VDL4-2	0.37	0.5	H (m)	19	18	17	15	13	10	8
VDL4-3	0.55	0.75		28	27	26	24	20	18	13
VDL4-4	0.75	1		38	36	34	32	27	24	19
VDL4-5	1.1	1.5		47	45	43	40	34	31	23
VDL4-6	1.1	1.5		56	54	52	48	41	37	28
VDL4-7	1.5	2		66	63	61	56	48	43	33
VDL4-8	1.5	2		74	72	70	64	55	50	38
VDL4-10	2.2	3		96	90	87	81	71	62	48
VDL4-12	2.2	3		114	108	104	95	85	75	58
VDL4-14	3.0	4		136	126	122	112	101	89	68
VDL4-16	3.0	4		152	144	140	129	115	101	78
VDL4-19	4.0	5.5		183	171	168	153	137	122	93
VDL4-22	4.0	5.5		211	200	192	178	160	138	108

Installation sketck



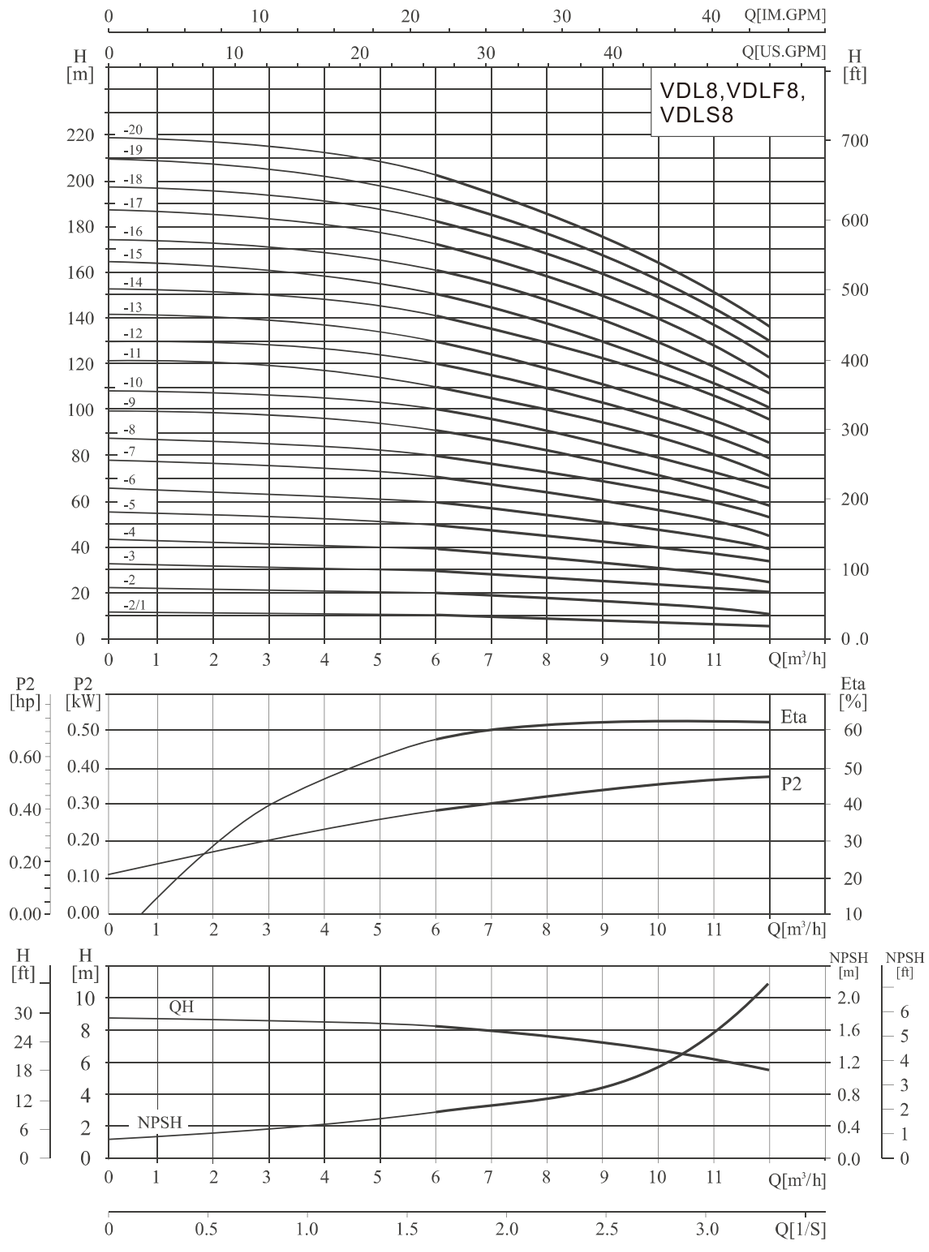
VDL4-19 ~ 4-22 sub-connection of pipeline has no oval flange connection.
The overall dimensions of the single-phase motor and explosion-proof motor are a little different. Pls contact us for details.

Size and weight

Model	Size (mm) B1	B2	B1+B2	D1	D2	Weight (kg)
VDL4-2	276	210	486	148	117	21
VDL4-3	303	210	513	148	117	22
VDL4-4	340	245	585	170	142	25
VDL4-5	367	245	612	170	142	27
VDL4-6	394	245	639	170	142	27
VDL4-7	431	290	721	190	155	33
VDL4-8	458	290	748	190	155	33
VDL4-10	512	290	802	190	155	37
VDL4-12	566	290	856	190	155	38
VDL4-14	630	315	945	197	165	46
VDL4-16	684	315	999	197	165	48
VDL4-19	765	335	1100	230	188	57
VDL4-22	846	335	1181	230	188	59

Performance curve

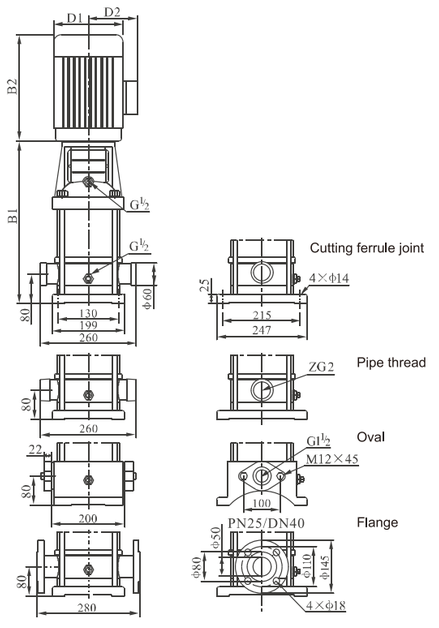
ISO9906 Annex A 2900rpm



Performance table

Model	Driving motor (kW)	Driving motor (hp)	Q (m^3/h)	5	6	7	8	9	10	11	12
VDL8-2/1	0.75	1	H (m)	10	9.5	9.3	9	8.5	8	7	6
VDL8-2	0.75	1		20	19.5	19	18	17	16	14	13
VDL8-3	1.1	1.5		30	29.5	28.5	27	25	24	21	19
VDL8-4	1.5	2		41	39.5	38	36	34	32	28	26
VDL8-5	2.2	3		52	50	48	45	42	40	36	32
VDL8-6	2.2	3		62	60	57	54	51	48	43	39
VDL8-8	3.0	4		83	80	77	73	69	65	58	52
VDL8-10	4.0	5.5		104	100	97	92	87	81	73	65
VDL8-12	4.0	5.5		124	120	116	111	104	92	87	78
VDL8-14	5.5	7.5		145	141	136	130	122	113	102	92
VDL8-16	5.5	7.5		166	161	156	148	139	130	118	106
VDL8-18	7.5	10		187	182	175	167	157	146	134	120
VDL8-20	7.5	10		208	202	195	186	175	163	150	135

Installation sketck



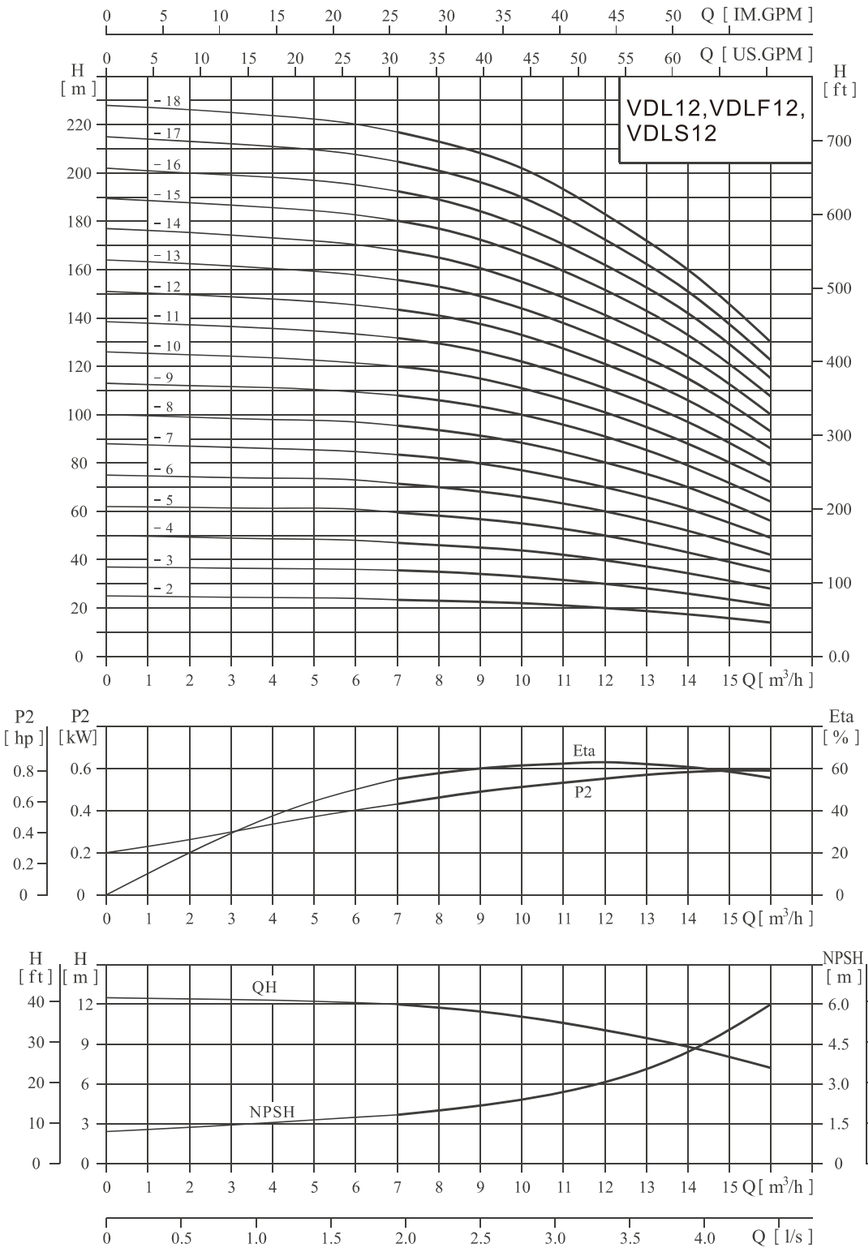
VDL8-14 ~ 8-20 sub-connection of pipeline has no oval flange connection.
The overall dimensions of the single-phase motor and explosion-proof motor are a little different. Pls contact us for details.

Size and weight

Model	Size (mm) B1	B2	B1+B2	D1	D2	Weight (kg)
VDL8-2/1	347	245	592	170	142	32
VDL8-2	347	245	592	170	142	32
VDL8-3	377	245	622	170	142	34
VDL8-4	417	290	707	190	155	40
VDL8-5	447	290	737	190	155	44
VDL8-6	477	290	767	190	155	45
VDL8-8	547	315	862	197	165	53
VDL8-10	6O7	335	942	230	188	64
VDL8-12	667	335	1002	230	188	66
VDL8-14	747	430	1177	260	208	81
VDL8-16	807	430	1237	260	208	84
VDL8-18	867	430	1297	260	208	93
VDL8-20	927	430	1357	260	208	94

Performance curve

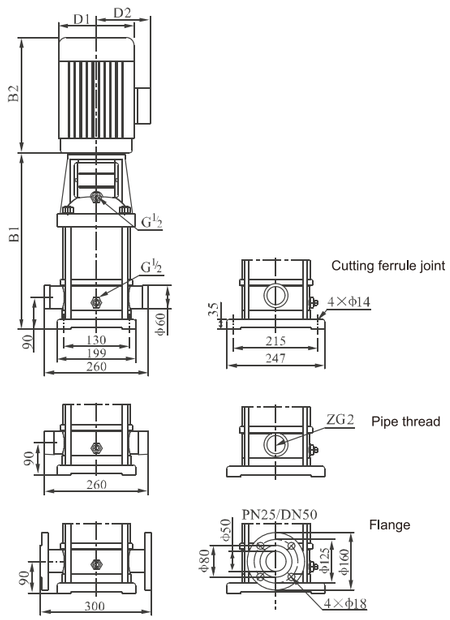
ISO9906 Annex A 2900rpm



Performance table

Model	Driving motor (kW)	Driving motor (hp)	Q (m^3/h)	7	8	9	10	11	12	13	14	15	16
VDL12-2	1.5	2	H (m)	23.5	23	22.5	22	21	20	18.5	17	15.5	14
VDL12-3	2.2	3		35.5	35	34	33	31.5	30	28	26	23.5	21
VDL12-4	3	4		47	46	45	44	42	40	37	34	31	28
VDL12-5	3	4		59.5	58	56.5	55	52.5	50	46.5	43	39	35
VDL12-6	4	5.5		71.5	70	68	66	63	60	56	52	47	42
VDL12-7	5.5	7.5		83.5	82	79.5	77	73.5	70	65.5	61	55	49
VDL12-8	5.5	7.5		95.5	94	91	88	84	80	75	70	63	56
VDL12-9	5.5	7.5		108	106	103	100	95.5	91	85	79	71.5	64
VDL12-10	7.5	10		120	118	114.5	111	106	101	94.5	88	80	72
VDL12-12	7.5	10		143.5	141	137	133	127	121	113.5	106	96	86
VDL12-14	11	15		168	165	160	155	148	141	132.5	124	112	100
VDL12-16	11	15		192.5	189	183.5	178	170	162	152	142	128.5	115
VDL12-18	11	15		217	213	207.5	202	192.5	183	171.5	160	145	130

Installation sketck



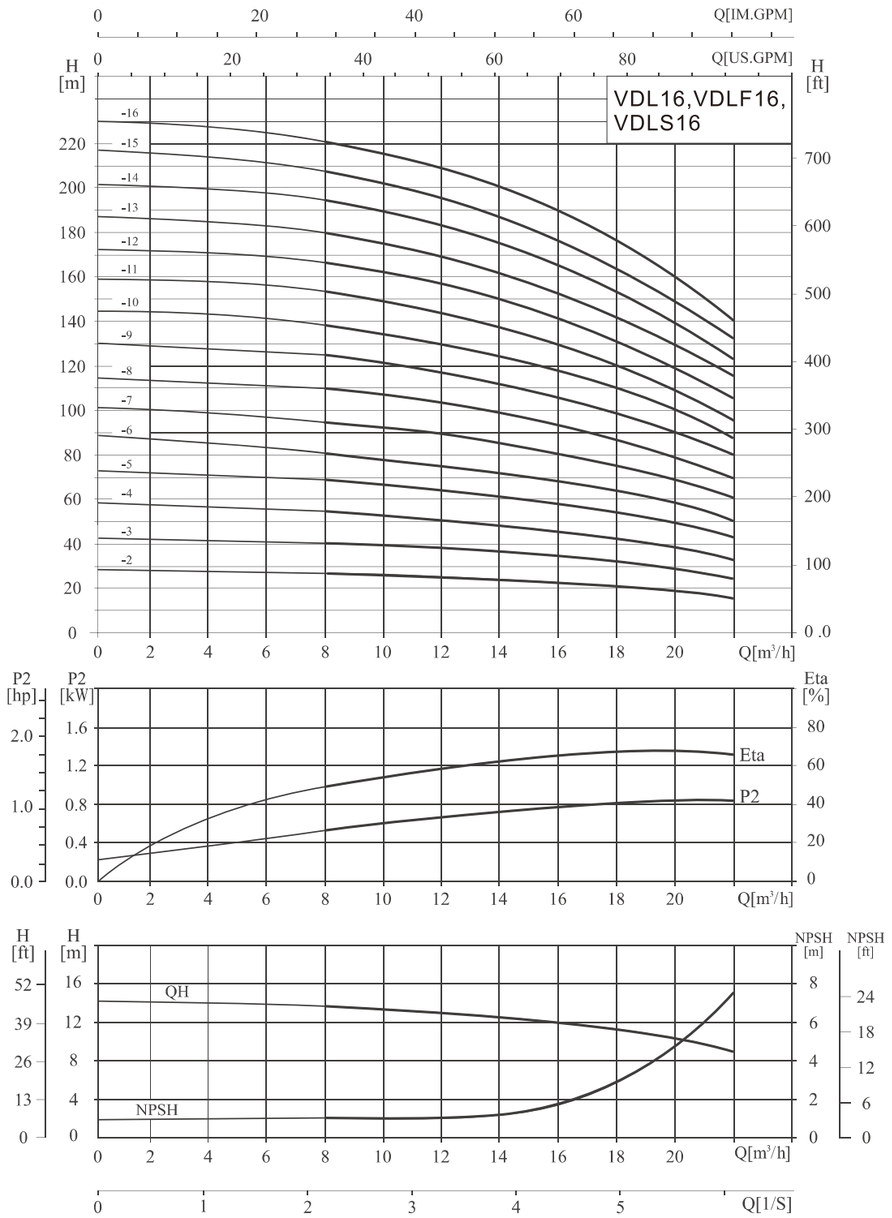
Size and weight

Model	Size (mm) B1	B2	B1+B2	D1	D2	Weight (kg)
VDL12-2	367	290	657	190	155	39
VDL12-3	397	290	687	190	155	43
VDL12-4	437	315	752	197	165	51
VDL12-5	467	315	782	197	165	53
VDL12-6	497	335	832	230	188	61
VDL12-7	547	430	977	260	208	73
VDL12-8	577	430	1007	260	208	74
VDL12-9	607	430	1037	260	208	76
VDL12-10	637	430	1067	260	208	83
VDL12-12	697	430	1127	260	208	87
VDL12-14	845	490	1335	330	255	157
VDL12-16	905	490	1395	330	255	161
VDL12-18	965	490	1455	330	255	164

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

Performance curve

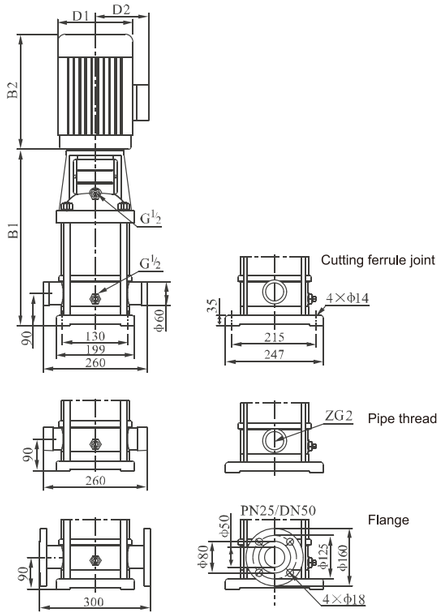
ISO9906 Annex A 2900rpm



Performance table

Model	Driving motor (kW)	Driving motor (hp)	Q (m^3/h)	8	10	12	14	16	18	20	22
VDL16-2	2.2	3	H (m)	27	26	25	24	22	21	19	16
VDL16-3	3.0	4		41	40	38	37	34	32	29	25
VDL16-4	4.0	5.5		54	53	52	49	46	43	38	34
VDL16-5	5.5	7.5		68	67	65	62	58	54	48	43
VDL16-6	5.5	7.5		82	80	78	74	70	64	58	52
VDL16-7	7.5	10		96	95	91	87	82	76	68	61
VDL16-8	7.5	10		110	108	104	99	94	86	77	70
VDL16-10	11	15		138	136	131	125	118	109	97	87
VDL16-12	11	15		166	162	157	150	141	130	116	105
VDL16-14	15	20		194	190	184	175	166	152	136	122
VDL16-16	15	20		222	217	210	200	189	174	156	140

Installation sketck



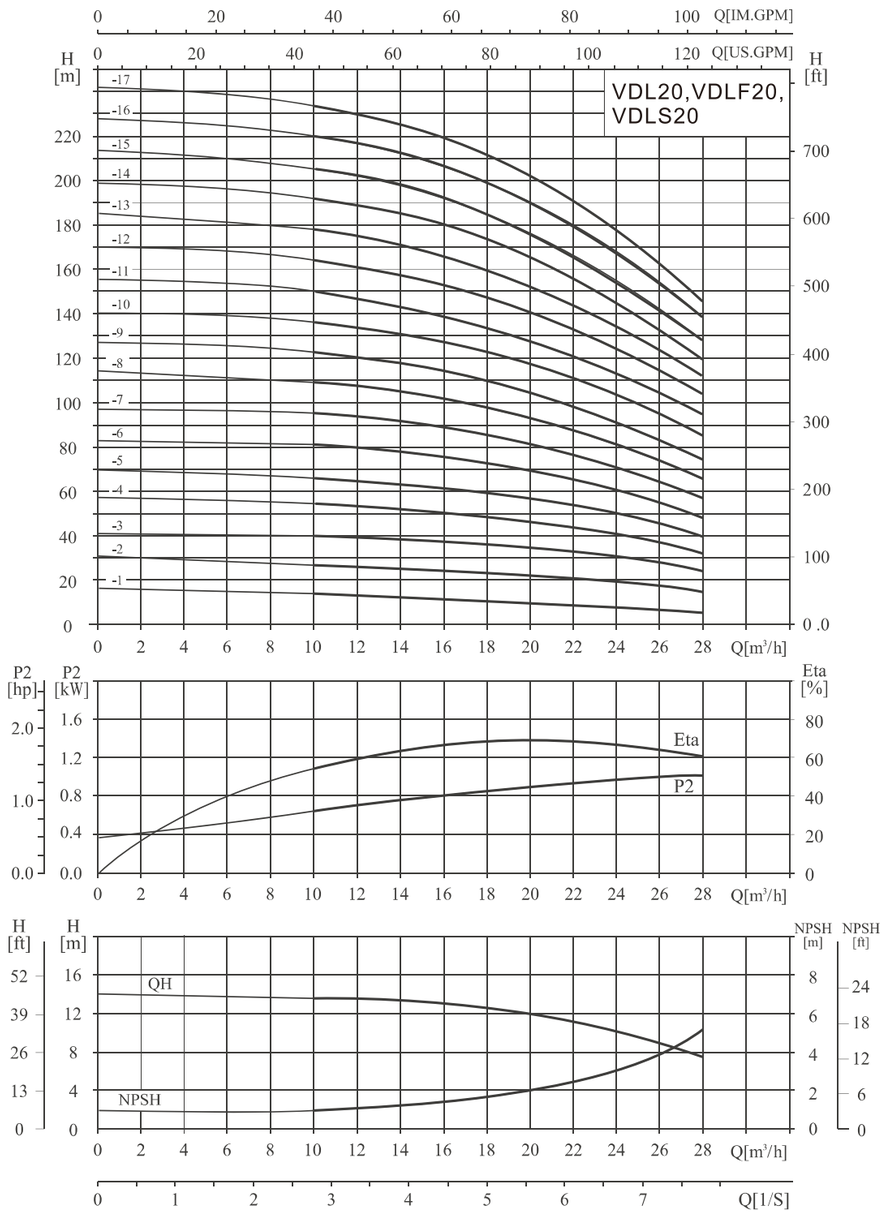
Size and weight

Model	Size (mm) B1	B2	B1+B2	D1	D2	Weight (kg)
VDL16-2	397	290	687	190	155	42
VDL16-3	452	315	767	197	165	50
VDL16-4	497	335	832	230	188	59
VDL16-5	562	430	992	260	208	76
VDL16-6	607	430	1037	260	208	77
VDL16-7	652	430	1082	260	208	84
VDL16-8	697	430	1127	260	208	86
VDL16-10	875	490	1365	330	255	158
VDL16-12	965	490	1455	330	255	161
VDL16-14	1055	490	1545	330	255	174
VDL16-16	1145	490	1635	330	255	178

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

Performance curve

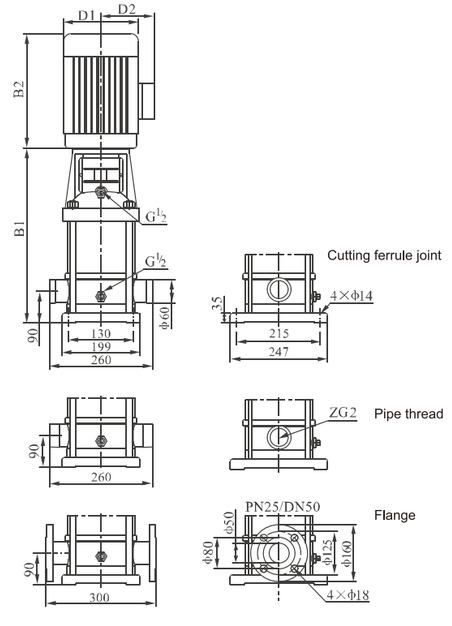
ISO9906 Annex A 2900rpm



Performance table

Model	Driving motor (kW)	Driving motor (hp)	Q (m^3/h)	10	12	14	16	18	20	22	24	26	28
VDL20-1	1.1	1.5		13.5	13	12.5	12	11	10	9	8	7	6
VDL20-2	2.2	3		27	26.5	26	25	24	23	22	20	18	15
VDL20-3	4.0	5.5		40	39.5	39	38	37	35	33	30	27	24
VDL20-4	5.5	7.5		54	53	52	51	49	47	44	41	37	33
VDL20-5	5.5	7.5		67	66	64	62	60	58	55	50	45	40
VDL20-6	7.5	10	H (m)	81	79	77	75	73	70	66	61	55	49
VDL20-7	7.5	10		95	93	91	89	86	82	77	71	65	58
VDL20-8	11	15		109	107	105	102	99	94	89	82	75	67
VDL20-10	11	15		136	134	131	128	124	118	111	103	95	85
VDL20-12	15	20		164	162	158	154	149	142	133	124	114	102
VDL20-14	15	20		192	189	185	180	174	166	156	145	133	119
VDL20-17	18.5	25		234	230	225	219	212	202	190	177	162	145

Installation sketck



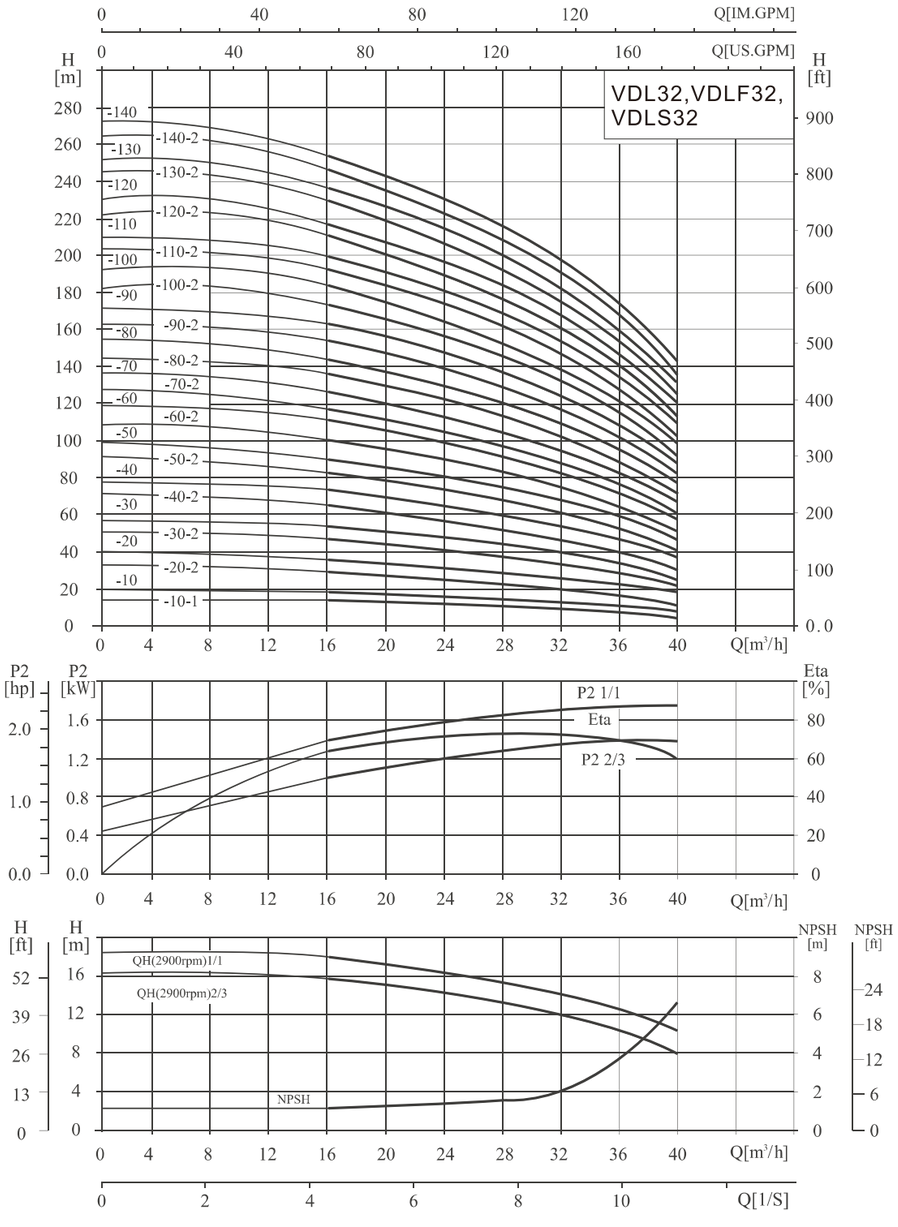
Size and weight

Model	Size (mm) B1	B2	B1+B2	D1	D2	Weight (kg)
VDL20-1	387	245	632	170	142	33
VDL20-2	397	290	687	190	155	42
VDL20-3	452	335	787	230	188	58
VDL20-4	517	430	947	260	208	74
VDL20-5	562	430	992	260	208	76
VDL20-6	607	430	1037	260	208	82
VDL20-7	652	430	1082	260	208	84
VDL20-8	785	490	1275	330	255	153
VDL20-10	875	490	1365	330	255	157
VDL20-12	965	490	1455	330	255	170
VDL20-14	1055	490	1545	330	255	172
VDL20-17	1190	550	1740	330	255	195

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

Performance curve

ISO9906 Annex A 2900rpm

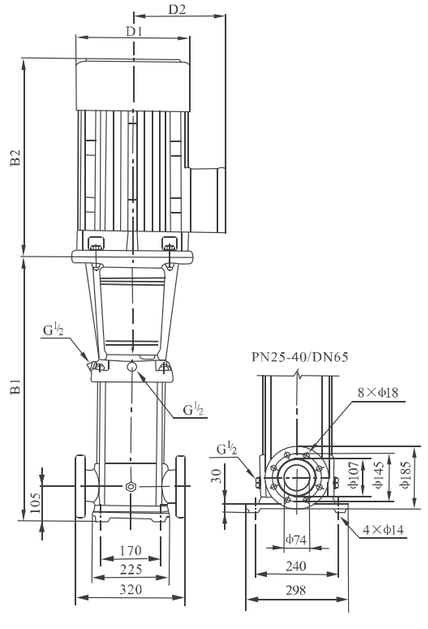


Performance table

Model	Driving motor (kW)	Driving motor (hp)	Q (m³/h)	16	20	24	28	32	36	40
VDL32-10-1	1.5	2	H (m)	14	13	12	11	9	7	4
VDL32-10	2.2	3		18	17	15	14	13	11	8
VDL32-20-2	3.0	4		29	28	26	23	20	16	11
VDL32-20	4.0	5.5		36	34	32	29	27	23	18
VDL32-30-2	5.5	7.5		47	44	41	38	33	28	21
VDL32-30	5.5	7.5		54	51	48	44	40	35	27
VDL32-40-2	7.5	10		65	62	58	53	46	40	30
VDL32-40	7.5	10		72	69	65	59	53	47	37
VDL32-50-2	11	15		83	79	74	68	60	52	41
VDL32-50	11	15		90	86	81	74	67	59	47
VDL32-60-2	11	15		101	97	90	83	74	65	51
VDL32-60	11	15		108	104	97	90	81	72	57
VDL32-70-2	15	20		119	114	107	98	88	78	60
VDL32-70	15	20		126	121	113	105	95	85	67

Model	Driving motor (kW)	Driving motor (hp)	Q (m³/h)	16	20	24	28	32	36	40
VDL32-80-2	15	20	H (m)	136	131	123	114	102	90	71
VDL32-80	15	20		144	138	130	120	109	97	77
VDL32-90-2	18.5	25		154	148	140	129	117	102	82
VDL32-90	18.5	25		162	156	147	136	124	109	88
VDL32-100-2	18.5	25		175	166	157	146	I31	115	91
VDL32-100	18.5	25		182	173	164	152	138	122	98
VDL32-110-2	22	30		193	184	173	164	146	128	102
VDL32-110	22	30		200	191	180	168	153	135	109
VDL32-120-2	22	30		211	201	189	178	160	140	113
VDL32-120	22	30		218	208	196	184	167	147	120
VDL32-130-2	30	40		230	218	206	193	174	153	124
VDL32-130	30	40		237	225	213	200	181	160	131
VDL32-140-2	30	40		247	235	222	210	189	165	135
VDL32-140	30	40		255	242	229	216	196	172	142

Installation sketck



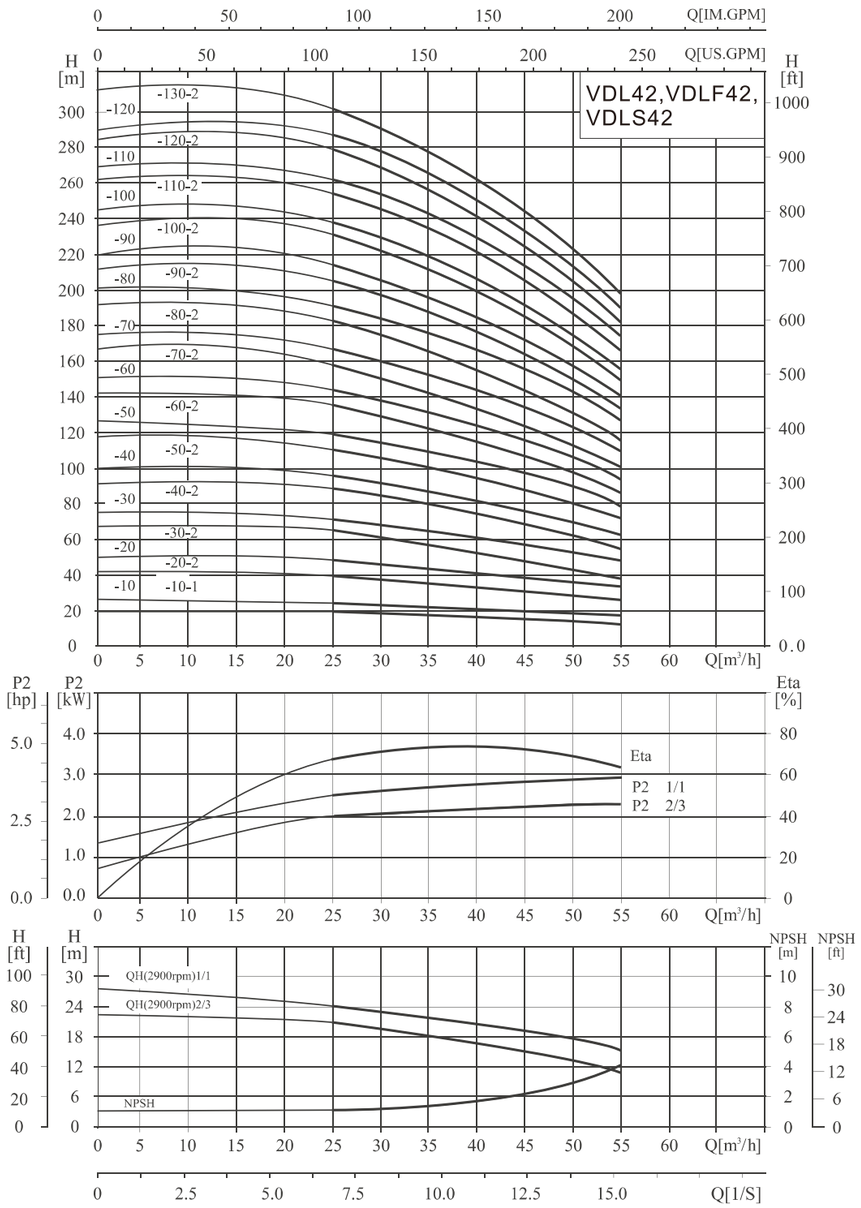
Size and weight

Model	Size (mm) B1	B2	B1+B2	D1	D2	Weight (kg)
VDL32-10-1/VDL32-10	505	290	795	190	155	64/68
VDL32-20-2/VDL32-20	575	315/335	890/910	197/230	165/180	77/85
VDL32-30-2/VDL32-30	645	430	1075	260	208	100
VDL32-40-2/VDL32-40	715	430	1145	260	208	109
VDL32-50-2/VDL32-50	890	490	1380	330	255	181
VDL32-60-2/VDL32-60	960	490	1450	330	255	185
VDL32-70-2/VDL32-70	1030	490	1520	330	255	199
VDL32-80-2/VDL32-80	1100	490	1590	330	255	203
VDL32-90-2/VDL32-90	1170	550	1720	330	255	222
VDL32-100-2/VDL32-100	1240	550	1790	330	255	227
VDL32-110-2/VDL32-110	1310	590	1900	360	285	272
VDL32-120-2/VDL32-120	1380	590	1970	360	285	276
VDL32-130-2/VDL32-130	1450	660	2110	400	310	337
VDL32-140-2/VDL32-140	1520	660	2180	400	310	341

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

Performance curve

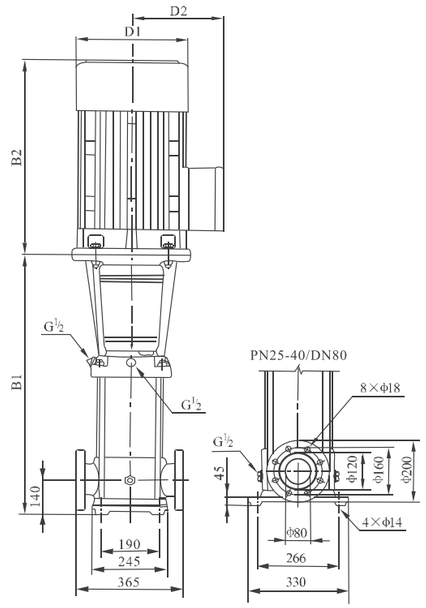
ISO9906 Annex A 2900rpm



Performance table

Model	Driving motor (kW)	Driving motor (hp)	Q (m^3/h)	25	30	35	40	42	45	50	55
VDL42-10-1	3.0	4	H (m)	20	19	18	17	16	15	13	11
VDL42-10	4.0	5.5		24	23	22	21	20	19	18	16
VDL42-20-2	5.5	7.5		40	38	36	33	32	30	27	23
VDL42-20	7.5	10		48	46	44	42	41	39	35	31
VDL42-30-2	11	15		63	61	58	$4	52	50	44	38
VDL42-30	11	15		71	69	66	63	61	58	53	47
VDL42-40-2	15	20		87	84	80	75	73	69	62	54
VDL42-40	15	20		95	92	88	84	81	78	71	62
VDL42-50-2	18.5	25		111	107	102	96	93	88	80	69
VDL42-50	18.5	25		119	115	110	105	101	97	88	78
VDL42-60-2	22	30		135	130	124	117	113	108	97	85
VDL42-60	22	30		143	138	132	125	122	116	106	93
VDL42-70-2	30	40		158	152	146	138	134	127	115	100
VDL42-70	30	40		166	161	154	146	142	135	124	109
VDL42-80-2	30	40		182	175	168	159	154	146	133	116
VDL42-80	30	40		190	184	176	167	162	154	141	124
VDL42-90-2	30	40		205	198	190	180	174	166	150	132
VDL42-90	37	50		214	207	198	188	183	174	159	140
VDL42-100-2	37	50		230	221	212	200	194	185	168	147
VDL42-100	37	50		238	23O	220	209	2O3	193	177	155
VDL42-110-2	45	60		255	246	236	223	217	206	188	165
VDL42-110	45	60		263	255	244	232	225	214	196	173
VDL42-120-2	45	60		280	270	259	245	238	226	206	181
VDL42-120	45	60		289	28O	268	255	247	236	216	190
VDL42-130-2	45	60		305	294	282	267	259	247	225	198

Installation sketck



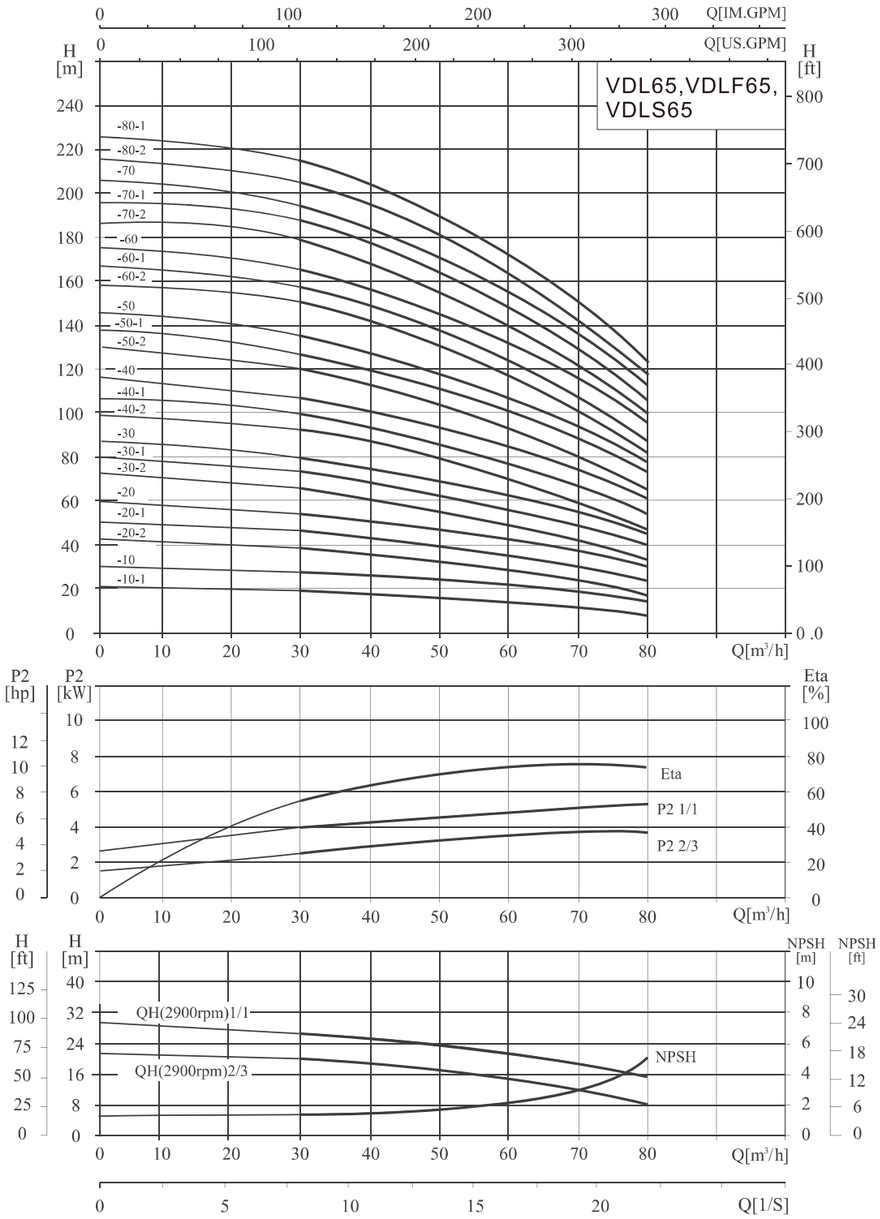
Size and weight

Model	Size (mm) B1	B2	B1+B2	D1	D2	Weight (kg)
VDL42-10-1	561	315/335	876/896	197/230	165/188	83/90
VDL42-10						
VDL42-20-2	641	430	1071	260	208	105/110
VDL42-20						
VDL42-30-2	826	490	1316	330	255	183
VDL42-30						
VDL42-40-2	906	490	1396	330	255	1197
VDL42-40						
VDL42-50-2	986	550	1536	330	255	221
VDL42-50						
VDL42-60-2	1066	590	1656	360	285	261
VDL42-60						
VDL42-70-2	1146	660	1806	400	310	320
VDL42-70						
VDL42-80-2	1226	660	1886	400	310	324
VDL42-80						
VDL42-90-2	1306	660	1966	400	310	328/352
VDL42-90						
VDL42-100-2	1386	660	2046	400	310	355
VDL42-100						
VDL42-110-2	1466	700	2166	450	345	426
VDL42-110						
VDL42-120-2	1546	700	2246	450	345	432
VDL42-120						
VDL42-130-2	1626	700	2326	450	345	438

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

Performance curve

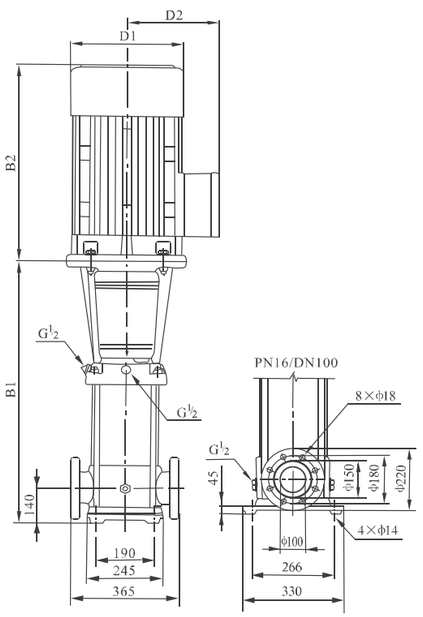
ISO9906 Annex A 2900rpm



Performance table

Model	Driving motor (kW)	Driving motor (hp)	Q (m^3/h)	30	40	50	60	65	70	80
VDL65-10-1	4.0	7.5	H (m)	19	18	16	14	13	11	8
VDL65-10	5.5	10		27	25	23	21	20	18	15
VDL65-20-2	7.5	15		39	36	33	29	26	23	17
VDL65-20-1	11	15		46	44	40	36	33	30	24
VDL65-20	11	20		53	51	47	43	40	37	30
VDL65-30-2	15	20		66	62	56	50	46	41	32
VDL65-30-1	15	25		73	69	63	57	53	48	39
VDL65-30	18.5	25		80	76	70	64	60	55	46
VDL65-40-2	18.5	25		92	87	80	71	66	60	47
VDL65-40 1	22	30		100	94	87	78	73	67	54
VDL65-40	22	30		107	101	94	85	80	74	61
VDL65-50-2	30	40		121	114	105	95	88	80	64
VDL65-50-1	30	40		128	121	112	102	95	87	71
VDL65-50	30	40		136	129	119	109	102	94	78
VDL65-60-2	30	40		150	142	131	118	110	I01	81
VDL65-60-1	37	50		157	149	138	125	117	108	88
VDL65-60	37	50		164	156	145	132	124	115	95
VDL65-70-2	37	50		179	169	156	141	132	121	99
VDL65-70-1	37	50		186	176	163	148	139	128	106
VDL65-70	45	60		193	183	170	155	146	135	112
VDL65-80-2	45	60		207	196	182	164	154	142	116
VDL65-80-1	45	60		215	203	189	171	161	149	123

Installation sketck



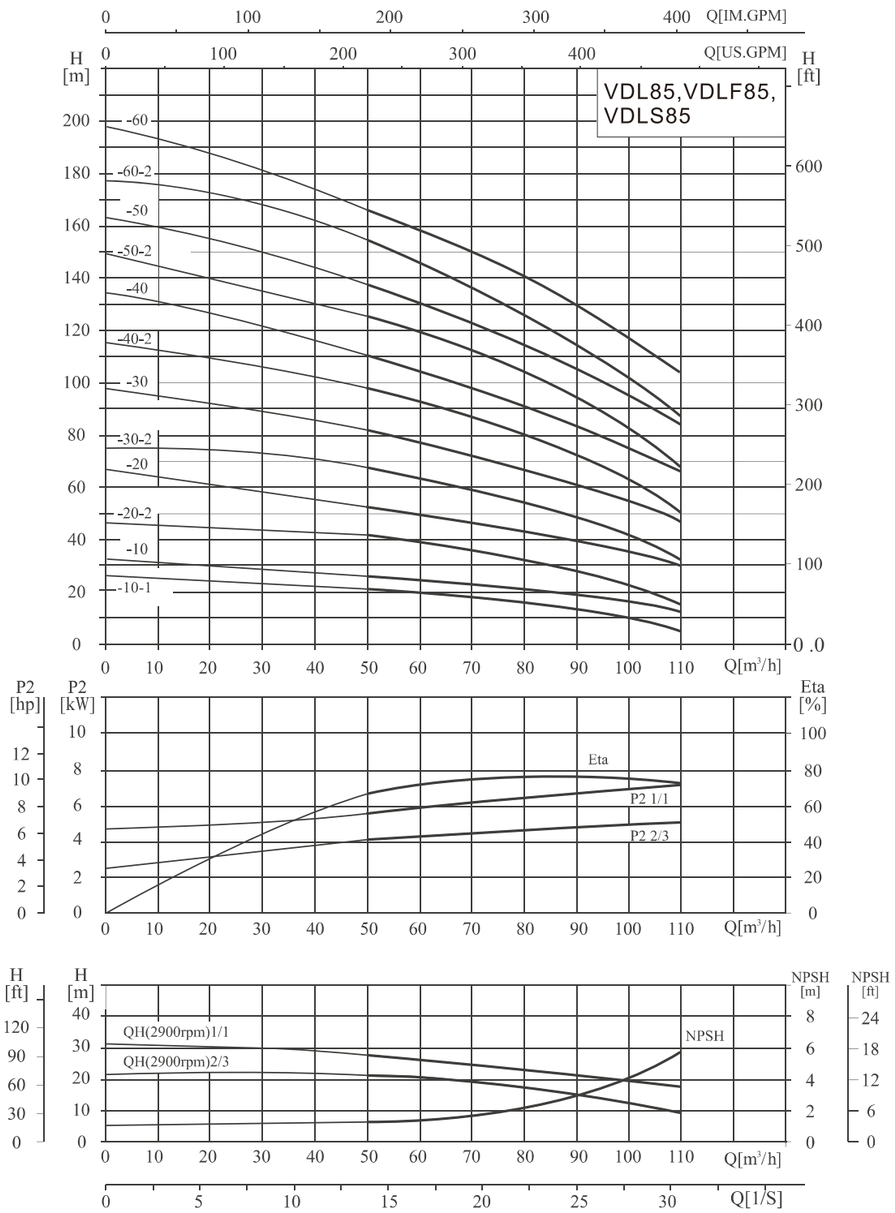
The overall dimensions of explosion-proofmotor is a little different. Pls contact tls for details.
(For VDL65 series, PN25-40/DN100 standard flange is also available ifrequired)

Size and weight

Model	Size (mm) B1	B2	B1+B2	D1	D2	Weight (kg)
VDL65-10-1	561	335	896	230	188	93
VDL65-10	561	430	99I	260	208	105
VDL65-20-2	644	430	1074	260	208	110
VDL65-20-1	754	490	1244	330	255	182
VDL65-20	754	490	1244	330	255	182
VDL65-30-2	836	490	1326	330	255	196
VDL65-30-1	836	490	1326	330	255	197
VDL65-30	836	550	1386	330	255	221
VDL65-40-2	919	550	1469	330	255	225
VDL65-40 1	919	590	1509	360	285	258
VDL65-40	919	590	1509	360	285	258
VDL65-50-2	1001	660	1661	400	3IO	319
VDL65-50-1	1001	660	166I	400	310	319
VDL65-50	1001	660	1661	400	310	320
VDL65-60-2	1084	660	1744	400	310	325
VDL65-60-1	1084	660	1744	400	310	349
VDL65-60	1084	660	1744	400	310	349
VDL65-70-2	1166	660	1826	400	310	353
VDL65-70-1	1166	660	1826	400	310	353
VDL65-70	1166	700	1866	460	340	420
VDL65-80-2	1248	700	1948	460	340	424
VDL65-80-1	1248	700	1948	460	340	424

Performance curve

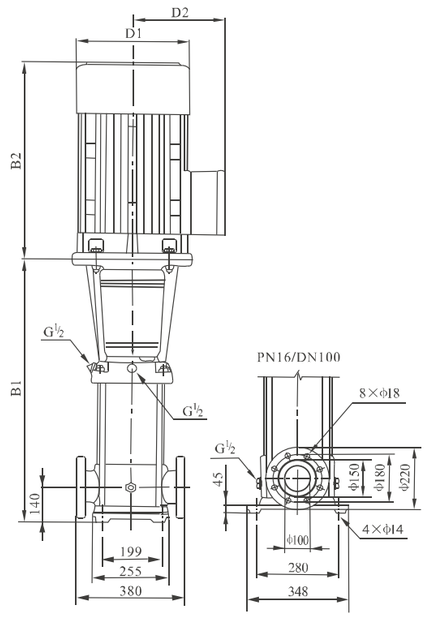
ISO9906 Annex A 2900rpm



Performance table

Model	Driving motor (kW)	Driving motor (hp)	Q (m^3/h)	50	60	70	80	85	90	100	110
VDL85-10-1	5.5	7.5	H (m)	22	19	17	16	14	13	10	6
VDL85-10	7.5	10		25	24	22	21	20	19	16	12
VDL85-20-2	11	15		41	39	36	32	30	28	22	15
VDL85-20	15	20		53	50	47	44	41	40	36	30
VDL85-30-2	18.5	25		68	65	60	55	52	49	41	32
VDL85-30	22	30		81	77	72	67	64	62	55	48
VDL85-40-2	30	40		98	93	87	80	75	72	62	50
VDL85-40	30	40		110	105	100	v92	86	84	76	66
VDL85-50-2	37	50		126	120	113	104	98	93	81	68
VDL85-50	37	50		139	131	124	115	110	106	94	83
VDL85-60-2	45	60		155	148	139	129	122	117	102	86
VDL85-60	45	60		168	160	150	141	134	130	117	103

Installation sketck



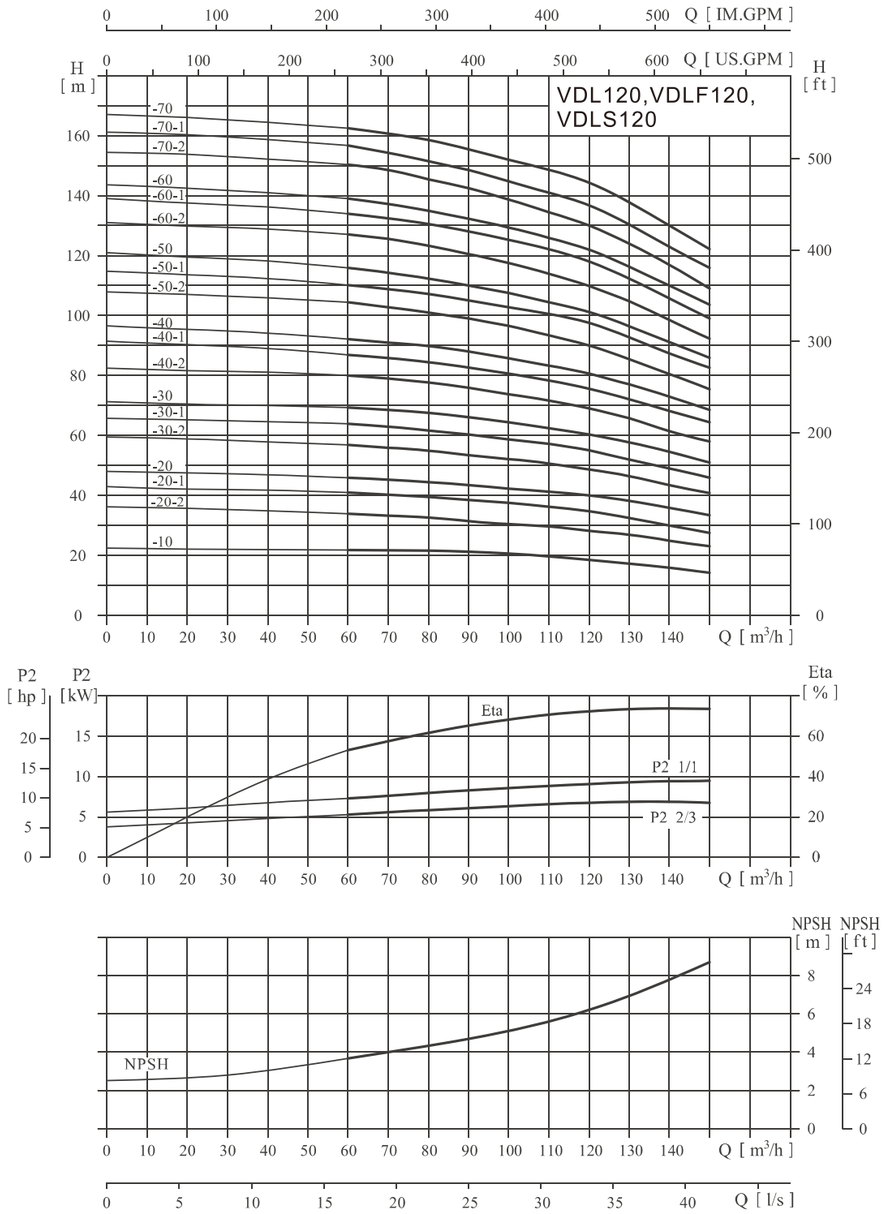
The overall dimensions of explosion-proofmotor is a little different. Pls contact tls for details.
(For VDL85 series, PN25-40/DN100 standard flange is also available ifrequired)

Size and weight

Model	Size (mm) B1	B2	B1+B2	D1	D2	Weight (kg)
VDL85-10-1	571	430	1001	260	208	105
VDL85-10	571	430	1001	260	208	110
VDL85-20-2	773	490	1263	330	255	181
VDL85-20	773	490	1263	330	255	192
VDL85-30-2	865	550	1415	330	255	215
VDL85-30	865	590	1455	360	285	252
VDL85-40-2	957	660	1617	400	310	312
VDL85-40	957	660	1617	4O0	310	312
VDL85-50-2	1049	660	1709	400	310	336
VDL85-50	1049	660	1709	400	310	336
VDL85-60-2	1141	700	1841	460	340	407
VDL85-60	1141	700	1841	460	340	407

Performance curve

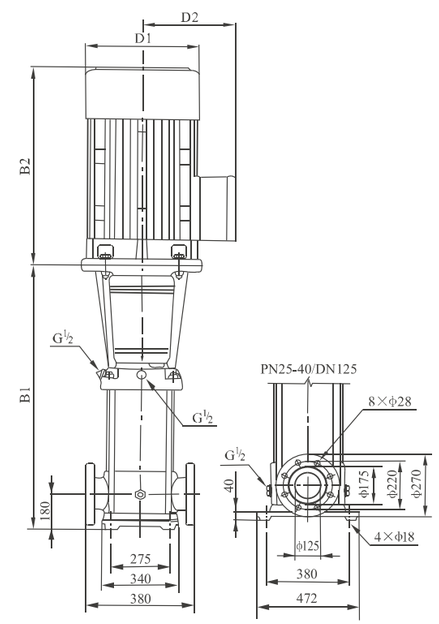
ISO9906 Annex A 2900rpm



Performance table

Model	Driving motor (kW)	Driving motor (hp)	Q (m^3/h)	60	70	80	90	100	110	120	130	140	150
VDL120-10	11	15		22	21.8	21.6	21	20 5	19.5	18.5	17	16	15
VDL120-20-2	15	20		34	33.6	33	31	30.2	30	28.5	27	25	24
VDL120-20-1	18.5	25		41	40	39.5	38.5	37	36.5	34.5	32.5	30	27.5
VDL120-20	22	30		46	45	44.5	43.5	42.4	41	40	38	36	33.5
VDL120-30-2	30	40		57	56	55	53.5	52	51	49	46.5	43 5	41
VDL120-30-1	30	40		64	63	62	60	58.5	57.5	55.5	52	49	46
VDL120-30	30	40		69.5	68.5	67.5	66	64.4	62.5	61	57 5	54.5	51
VDL120-40-2	37	50		80.5	79	78	76	73.5	72	69	66	61.5	58
VDL120-40-1	37	50	H (m)	87	86	84.5	82	80	78	76	72	68	64.5
VDL120-40	45	60		92.5	91	90	88	85.5	83	81	77	73	68.5
VDL120-50-2	45	60		104.5	103	10I	99	96	93	90	85 5	80.5	75.5
VDL120-50-1	45	60		110.5	109	107.5	105	102	100	97	92	86.5	83
VDL120-50	55	75		115.5	114	113	110	107.5	104.5	101.5	96	91	86
VDL120-60-2	55	75		128	125.5	123	121	117.3	113.5	110	104.5	98.5	92.5
VDL120-60-1	55	75		134	1 32	130.5	127	124	121	118	111	105	100
VDL120-60	75	100		139	137	135	132	128.8	126	123	116	110	104
VDL120-70-2	75	100		151	148	145.5	143	138.6	134	130	123.5	116.5	109
VDL120-70-1	75	100		156.5	154	152	148.5	144 5	141	137.5	130	123	116.5
VDL120-70	75	100		162.5	160.5	158.5	155	151	148	145	137	129	123

Installation sketck



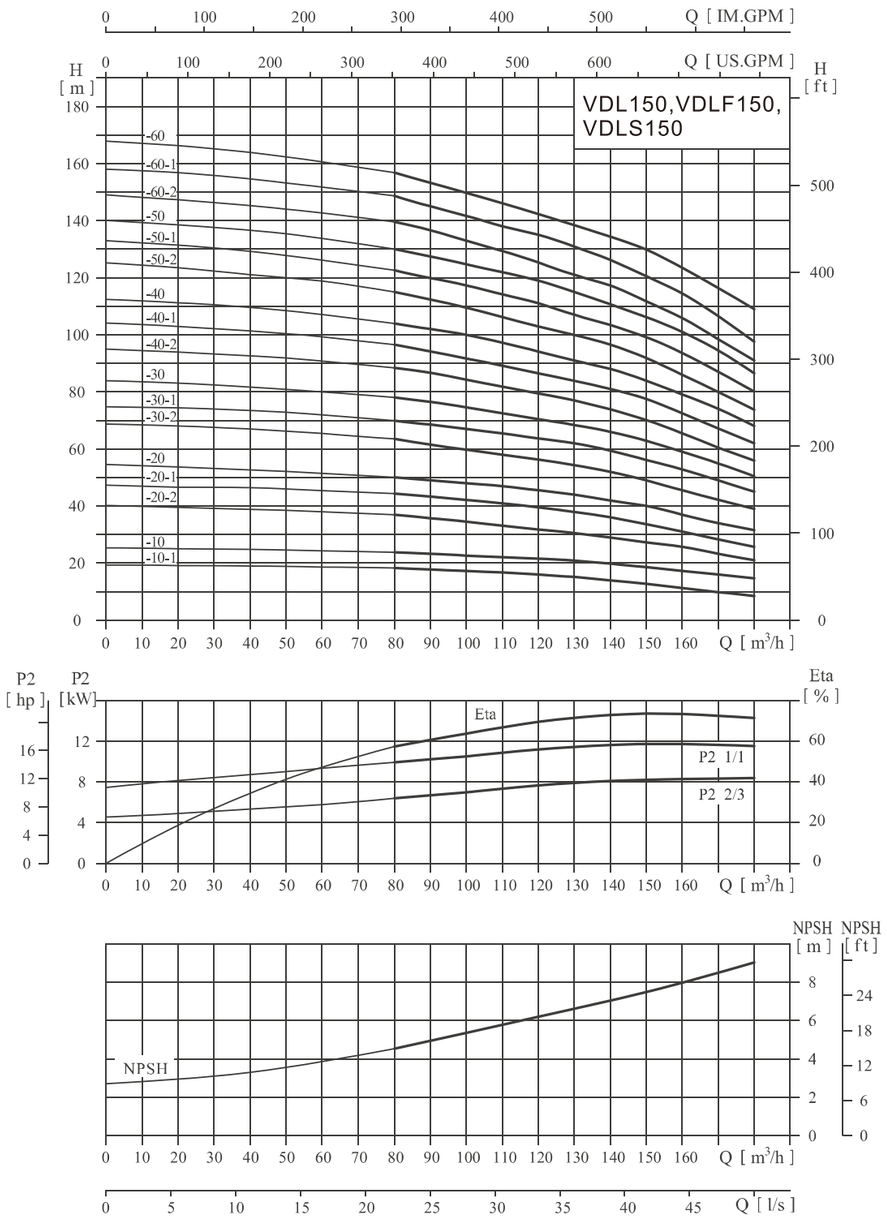
The overall dimensions of explosion-proofmotor is a little different. Pls contact tls for details.

Size and weight

Model	Size (mm) B1	B2	B1+B2	D1	D2	Weight (kg)
VDL120-10	840	490	1330	330	255	230
VDL120-20-2	1000	490	1490	330	255	245
VDL120-20-1	1000	550	1550	330	255	250
VDL120-20	1000	590	1590	360	285	285
VDL120-30-2	1160	660	1820	400	310	360
VDL120-30-1	1160	660	1820	400	310	360
VDL120-30	1160	660	1820	400	310	360
VDL120-40-2	1320	660	1980	400	310	400
VDL120-40-1	1320	660	1980	400	310	400
VDL120-40	1320	700	2020	460	340	460
VDL120-50-2	1480	700	2180	460	340	470
VDL120-50-1	1480	700	2180	460	340	470
VDL120-50	1510	770	2280	540	370	575
VDL120-60-2	1670	770	2440	540	370	585
VDL120-60-1	1670	770	2440	540	370	585
VDL120-60	1670	845	2515	580	410	705
VDL120-70-2	1830	845	2675	580	410	715
VDL120-70-1	1830	845	2675	580	410	715
VDL120-70	1830	845	2675	580	410	715

Performance curve

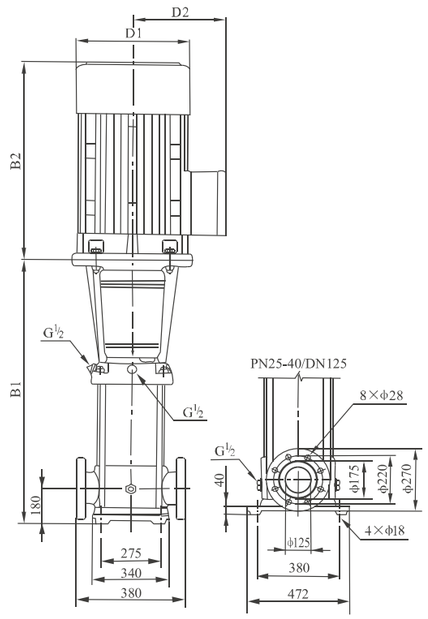
ISO9906 Annex A 2900rpm



Performance table

Model	Driving motor (kW)	Driving motor (hp)	Q (m^3/h)	80	90	100	110	120	130	140	150	160	170	180
VDL150-10-1	11	15	H (m)	18.3	17.8	17.3	17	16	15	14	12.5	11	10	8.5
VDL150-10	15	20		24	23	22.5	22	21.5	20.5	20	18.5	17	16	15
VDL150-20-2	18.5	25		37	35.5	34	33	32	31	29	27.5	26	23	21
VDL 150-20-1	22	30		44.3	43	42	40	39	38.5	37.5	35	33	30	27
VDL150-20	30	40		50	49	48	47	45.5	44	42	40	37	34	32
VDL150-30-2	30	40		63.5	61	59	57.5	56	54.5	53	49	45.5	42	39
VDL150-30-1	30	50		70	68	67	65	63	62	60	56	53	49	45
VDL150-30	37	50		78	76.5	75	73	70.5	68	66	63	59	55	50.5
VDL150-40-2	37	60		89	87	84	81.5	79	77	74.5	70.5	65.5	60	56
VDL150-40-1	45	60		96.5	54	91.5	89	86.5	84	81.5	77	72.5	67	62
VDL150-40	45	75		104	102	100	97	95	91	88	84	79.5	74	68
VDL150-50-2	55	75		115.5	112	109	106	102.5	100	97	92	86	79	73.5
VDL150-50-1	55	100		122.5	119.5	117	113.5	111.5	107.5	104.5	99	93.5	87	8O
VDL150-50	75	100		130	127.5	125	121	119	115	111.5	106.5	101	94.5	86.5
VDL150-60-2	75	100		140	137	133	130	126	121	118	112	106	98	91
VDL150-60-1	75	100		148.5	145	141.7	137.5	135	131	127	120.5	114.5	106.5	97.5
VDL150-60	75	100		157	153	149	145	142	139.5	137	130	123.5	116	109

Installation sketck



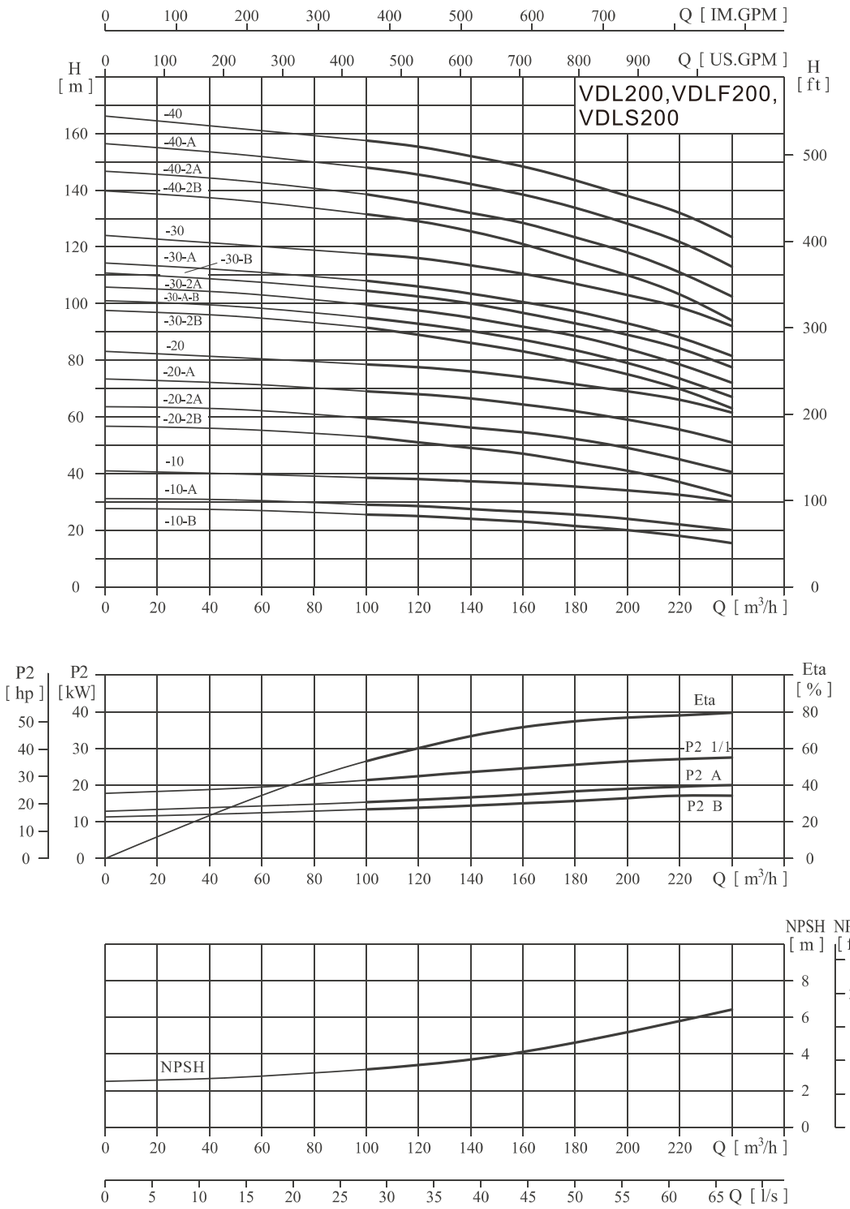
The overall dimensions of explosion-proofmotor is a little different. Pls contact tls for details.

Size and weight

Model	Size (mm) B1	B2	B1+B2	D1	D2	Weight (kg)
VDL150-10-1	840	490	1330	330	255	230
VDL150-10	840	490	1330	330	255	235
VDL150-20-2	1000	550	1550	330	255	250
VDL 150-20-1	1000	590	1590	360	285	295
VDL150-20	1000	660	1660	400	310	350
VDL150-30-2	1160	660	1820	400	310	360
VDL150-30-1	1160	660	1820	400	310	385
VDL150-30	1160	660	1820	400	310	460
VDL150-40-2	1320	700	2020	460	340	460
VDL150-40-1	1320	700	2020	460	340	560
VDL150-40	1350	770	2120	540	370	570
VDL150-50-2	1510	770	2280	540	410	690
VDL150-50-1	1510	845	2355	580	410	690
VDL150-50	1510	845	2355	580	410	700
VDL150-60-2	1670	845	2515	580	410	700
VDL150-60-1	1670	845	2515	580	410	700
VDL150-60	1670	845	2515	580	410	700

Performance curve

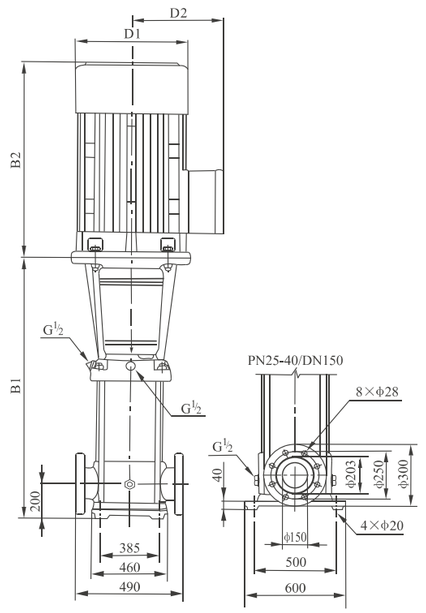
ISO9906 Annex A 2900rpm



Performance table

Model	Driving motor (kW)	Driving motor (hp)	Q (m^3/h)	100	120	140	160	180	200	220	240
VDL200-10-B	18.5	25	H (m)	25.5	25	24	23	21.5	20	18	15.5
VDL200-10-A	22	30		29	28.5	27.5	26.5	25.5	24	22	20
VDL200-10	30	40		38.5	38	37.5	36.5	35	34	32.5	30
VDL200-20-2B	37	50		53	51	49	47	44	41	37	32
VDL200-20-2A	45	60		59.5	58	56	54	52.5	49	44.5	40.5
VDL200-20-A	55	75		69	68	66	64	62	59	55.5	51
VDL200-20	55	75		78.5	77.5	76	74	71.5	69	66	61.5
VDL200-30-2B	75	100		91.5	89	86.5	83.5	79	75	70	63
VDL200-30-A-B	75	100		95	93	90	87	83.5	79	73.5	67
VDL200-30-2A	75	100		99.5	97.5	94.5	91.5	89	84	78.5	72
VDL200-30-B	75	100		104.5	102.5	100	97	93	89	84.5	77,5
VDL200-30-A	75	100		108	106	103.5	100.5	97.5	93	88	81.5
VDL200-30	90	120		117.5	116	113.5	110.5	107	103	99	92
VDL200-40-2B	90	120		131.5	129	125.5	121	115.5	110	103.5	94
VDL200-40-2A	110	150		138.5	136	132	128	124	118	111	102.5
VDL200-40-A	110	150		148	145.5	142.5	138	134	128	122	113
VDL200-40	110	150		157.5	155.5	152.	148	143.5	138	132.5	123.5

Installation sketck



The overall dimensions of explosion-proofmotor is a little different. Pls contact tls for details.

Size and weight

Model	Size (mm) B1	B2	B1+B2	D1	D2	Weight (kg)
VDL200-10-B	907	550	1457	330	255	311
VDL200-10-A	907	590	1497	360	285	347
VDL200-10	907	660	1567	400	310	403
VDL200-20-2B	1101	660	1761	400	310	447
VDL200-20-2A	1101	700	1801	460	340	504
VDL200-20-A	1131	770	1901	540	370	595
VDL200-20	1131	770	1901	540	370	595
VDL200-30-2B	1325	845	2170	580	410	748
VDL200-30-A-B	1325	845	2170	580	410	748
VDL200-30-2A	1325	845	2170	580	410	748
VDL200-30-B	1325	845	2170	580	410	748
VDL200-30-A	1325	845	2170	580	410	748
VDL200-30	1325	895	2220	580	410	817
VDL200-40-2B	1519	895	2414	580	410	830
VDL200-40-2A	1519	1140	2659	645	550	1180
VDL200-40-A	1519	1140	2659	645	550	1180
VDL200-40	1519	1140	2659	645	550	1180