

YIMAN 艺迈®



VERTICAL MULTISTAGE CENTRIFUGAL PUMP

FOCUS ON IMPROVEMENT

PROFESSIONAL IN SERVICES

YIMAN 艺迈®

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We reserves the right to change the product design, individual parameters are subject to change without prior notice. Please understand.

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SHANGHAI YIMAI INDUSTRIAL CO., LTD

COMPANY PROFILE

With the name of "YiMai" means man to make products as art work . Shanghai YiMai Industrial Co., Ltd. was established in 2009. Shanghai Yimai is enterprises combined technology R&D, equipment production and processing, sales and operation services as one of the national-level specialized new small giant, and Shanghai high-tech enterprises, Shanghai famous brand titled, the national 14th five-year major scientific research project undertaking company. Committed to providing customers with product leading "one-stop" comprehensive services and whole process solutions.

Our company has formed the whole industrial chain of water supply and drainage, multi-business coordinated development pattern. The main products are: motor, all kinds of pumps and complete sets of secondary water supply equipment, complete sets of direct drinking water products, modular intelligent integrated water plant, sewage lifting device, oil separation lifting equipment, integrated prefabricated pumping station, kitchen waste disposal equipment, etc.; While making hardware products more refined and stronger, it also established the Digital Research Institute of Yimai to promote the iterative upgrading of industrial intelligence and green, accelerate the deep integration of the new generation of information technology such as the Internet, big data and artificial intelligence with the manufacturing industry, and build a modern industrial system with integrity, advancement and security.

Technology driven, innovation opens the way, Shanghai Yimai and Tongji University to establish the "Tongji University-Shanghai Yimai Practice Education Base", and Tongji University Environmental science and engineering College to establish the "Tongji environment-Yimai joint laboratory", in technology transfer, achievement transformation, technology research and a series of technical research in-depth cooperation. Continue to increase investment in scientific research and technical personnel training.

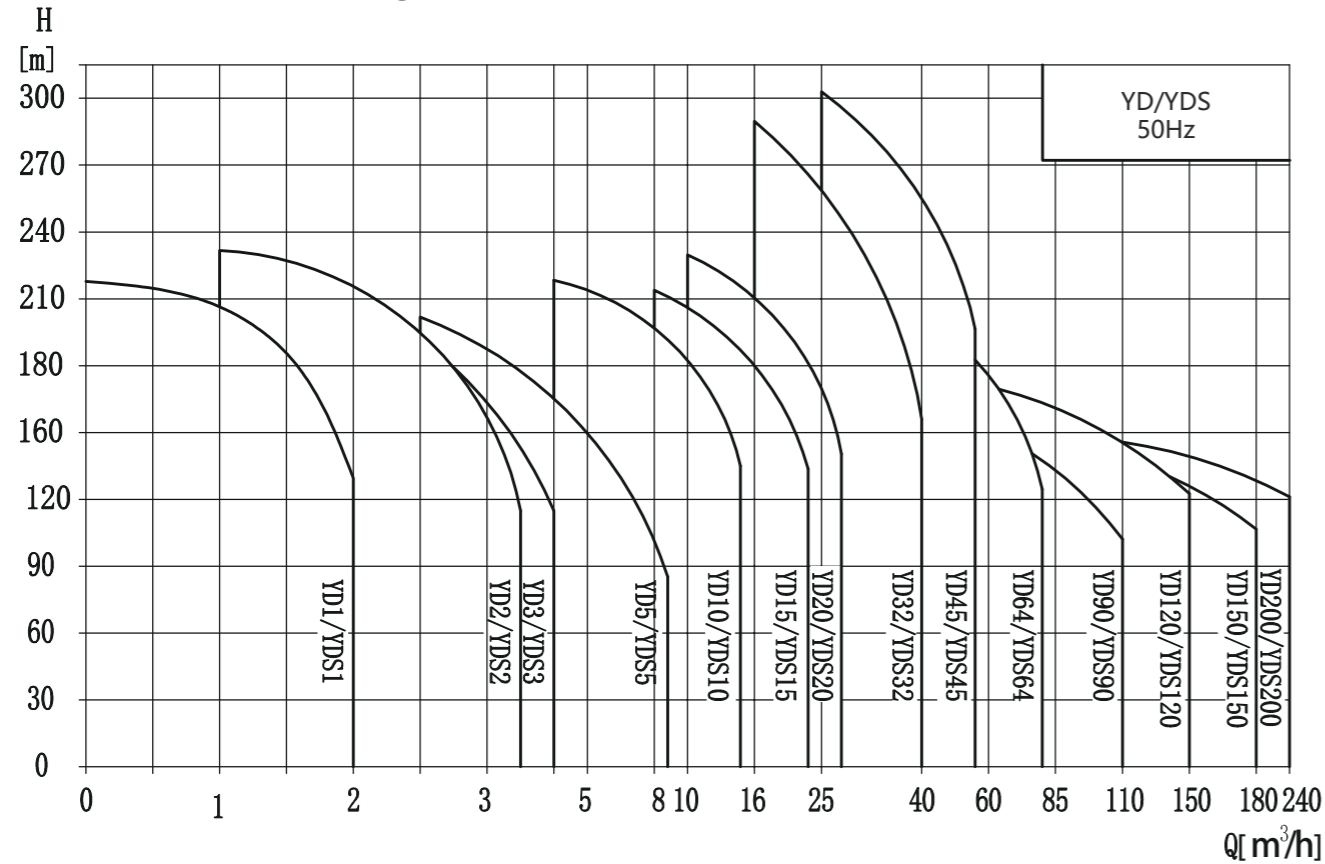
Adhering to the business philosophy of "focus on improving professional services", Shanghai Yimai continues to provide customers with high-quality products and services, create value, achieve win-win and development, and move towards a better tomorrow together!



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Performance Range



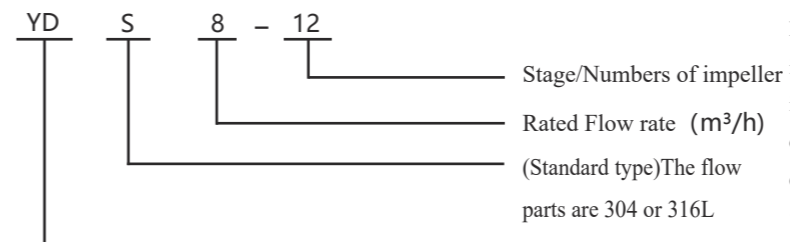
Product range:

Main Parameter	YD1	YD2	YD3	YD5	YD10	YD15	YD20
Rated Flow [m³/h]	1	2	3	5	10	15	20
Rated Flow [1/s]	0.28	0.56	0.83	1.36	2.78	4.2	5.6
Flow Range [m³/h]	0.4 ~ 1.8	1 ~ 3.5	1.2 ~ 4	2.5 ~ 8.5	5 ~ 13	8 ~ 22	10 ~ 28
Flow Range [1/s]	0.11 ~ 0.5	0.28 ~ 0.97	0.33 ~ 1.1	0.69 ~ 2.36	1.39 ~ 3.61	2.2 ~ 6.1	2.8 ~ 7.8
Max Pressure [bar]	21	23	22	24	24	22	23
Motor Power [kW]	0.37 ~ 2.2	0.37 ~ 3	0.37 ~ 3	0.37 ~ 5.5	0.75 ~ 7.5	2.2 ~ 15	1.1 ~ 18.5
Temperature Range [°C]	-15 ~ 105						
Max Efficiency [%]	44	46	54	58	63	66	69
YDS Pipe Connection							
DIN Flange	DN25	DN25	DN25	DN32	DN40	DN50	DN50
Pipe thread	R ₁ 1 ¹ / ₄ "	R ₁ 1 ¹ / ₄ "	R ₁ 1 ¹ / ₄ "	R ₁ 1 ¹ / ₄ "	R ₁ 2"	R ₁ 2"	R ₁ 2"
Ferrule fitting	DN32	DN32	DN32	DN32	DN40	DN50	DN50
YD Pipe Connection							
D1NFlange	DN25	DN25	DN25	DN32	DN40	DN50	DN50

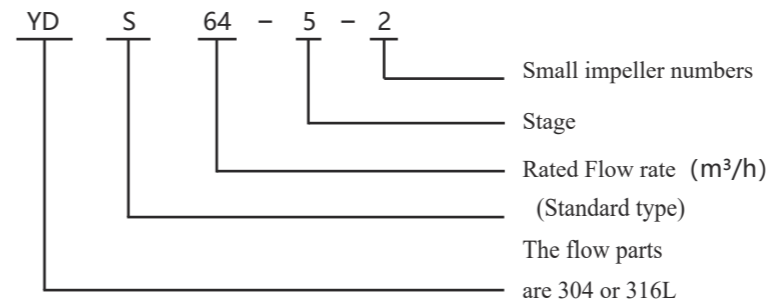
Main Parameter	YD32	YD45	YD64	YD90	YD120	YD150	YD200
Rated Flow [m³/h]	32	45	64	90	120	150	200
Rated Flow [1/s]	8.9	12.5	17.8	25	33.3	41.7	55.6
Flow Range ffl[m³/h]	16 ~ 40	25 ~ 55	30 ~ 80	50 ~ 110	60 ~ 150	80 ~ 180	100 ~ 240
Flow Range [1/s]	4.4 ~ 11	6.9 ~ 15.3	8 ~ 22	14 ~ 30	17 ~ 42	22 ~ 50	28 ~ 67
Max Pressure [bar]	26	30	22	17	16	16	16
Motor Power [kW]	1.5 ~ 30	3 ~ 45	4 ~ 45	5.5 ~ 45	11 ~ 75	11 ~ 75	18.5 ~ 110
Temperature Range [°C]	-15 ~ 105						
Max Efficiency [%]	74	75	76	77	74	73	79
Pipe Connection							
DINflange	DN65	DN80	DN100	DN100	DN125	DN125	DN150

Model definition

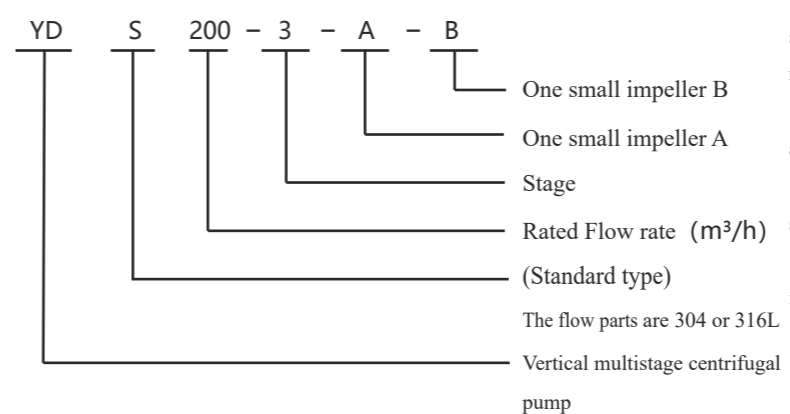
YD/YDS1,2,3,5,10,15,20



YD/YDS32,45,64,90,120,150



YD/YDS200



Typical application

- YD/YDS pump is a vertical multistage centrifugal pump. Its tubular structure ensures that the pump can be directly installed in the horizontal pipeline system with the same inlet and outlet level and the same pipe diameter. This design makes the pump structure and pipeline more compact.
- YD/YDS pumps have different pump specifications and different stages to meet the required flow and pressure.
- YD is a versatile product that can transport a variety of different media from tap water to industrial liquids, suitable for different temperature, flow and pressure ranges.
- YD is suitable for non-corrosive liquids; YDS is suitable for mildly corrosive liquids.
- Water supply: water plant filtration and transportation, water plant zoning water supply, pressurization of main network, pressurization of high-rise pipe buildings, hotels, and industrial water pressurization.
- Industrial pressurization: process water system, cleaning system, high pressure flushing system, fire protection system, car cleaning.
- Industrial liquid transport: cooling and air conditioning systems, boiler feed water and condensation systems, machine tools.
- Delivery: oil and alcohol, acids and bases, ethylene glycol and coolant.
- Water treatment: ultrafiltration system, reverse osmosis system, distillation system, separator, swimming pool.
- Irrigation: regional irrigation, spray irrigation, drip irrigation.

Electric motor

- TEFC,Air-cooled standard motor
- Protection: IP55
- Insulation class: F
- Standard voltage: 50Hz:1x220-230/240V
3x200-220/346-380V
3x220-240/380-415V
3x220-255/380-440V
- Motors of other voltages are available upon request.
- Single-phase motors are available from 0.37~2.2kW

Performance curve

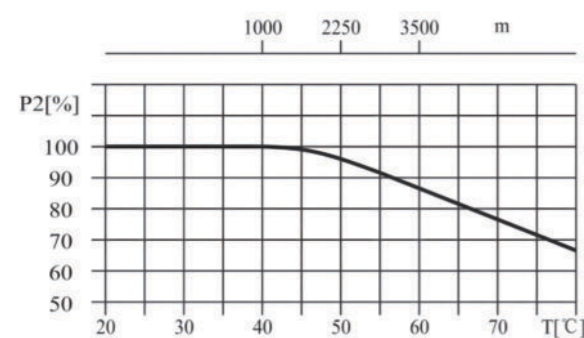
- All curves are based on motor measurements at a constant speed of 2900rpm or 2950rpm.
- Curve tolerance in accordance with ISO9906, Appendix A.
- Water without air at 20°C was used for the test, and the kinematic viscosity was 1mm²/s.
- The use of the pump refers to the performance range of the thick line to prevent the flow rate from overheating or excessive flow to overload the motor.

Pump specification

- YD/YDS is a non-self-priming multistage centrifugal pump equipped with a standard motor. The motor shaft and pump shaft are directly connected with a coupling. The pull rod is fixed between the outer cylinder and the flow parts with nuts between the support and the inlet and outlet water, and the inlet and outlet water mouth of the pump is on the same straight line at the bottom of the pump.
- The pump can be equipped with intelligent protectors according to needs, which can effectively protect the dry rotation, phase loss and overload of the pump.

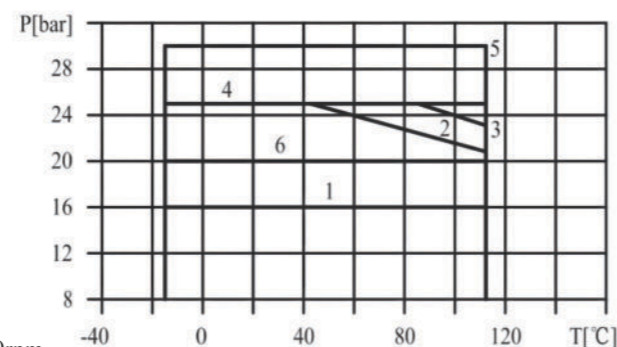
Altitude and ambient temperature

- When the pump is running at an ambient temperature greater than 40°C or an altitude greater than 1000m, the motor output power P2 will be reduced, so the pump in the above circumstances, the motor power needs to be enlarged.



Maximum working pressure

- The figure below shows the limits of pressure and temperature, which must be within the demonstration range.



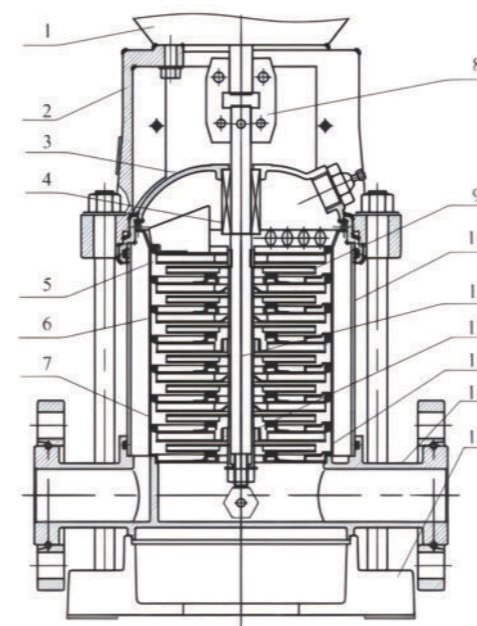
Pump model		Curve number
YD/YDS1,2,3,5		2
YD/YDS10,15,20		3
YD/YD32	32-1-1 ~32-7	1
	32-8-2 ~32-12	4
	32-13-2 ~32-16	5
YD/YD45	45-1-1 ~45-6	1
	45-7-2~45-9	4
	45-10-2~45-13-2	5
YD/YD64	64-1-1 ~64-5	1
	64-6-2 ~64-8-1	4
YD/YD90	90-1-1 ~90-5-2	1
	90-5-90-6	4
YD/YDS120,150,200		6

Note: Curve 4/5 requires special order

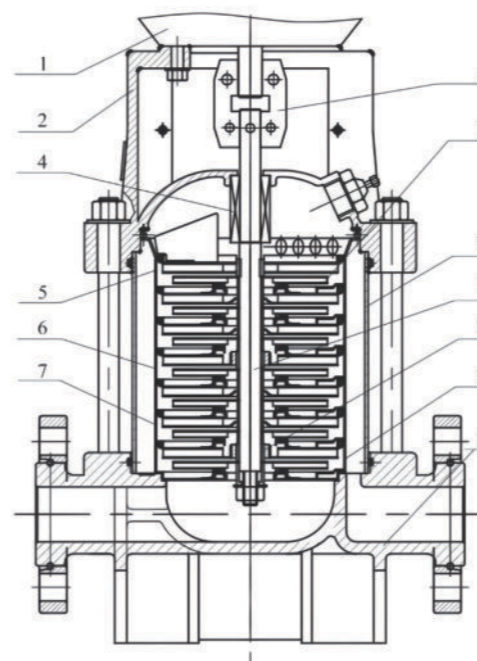
Operating condition

- Dilute, clean, non-flammable and explosive liquid that does not contain solid particles or fibers.
- Liquid temperature: normal temperature -15°C~+70°C
Hot water type -15° C ~+105 ° C
- Ambient temperature: maximum +40°C
- Altitude: maximum 1000m

Structure chart



YDS

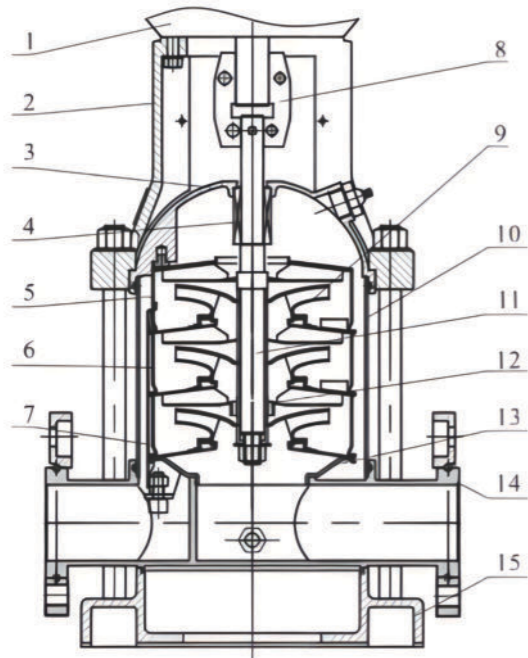


YD

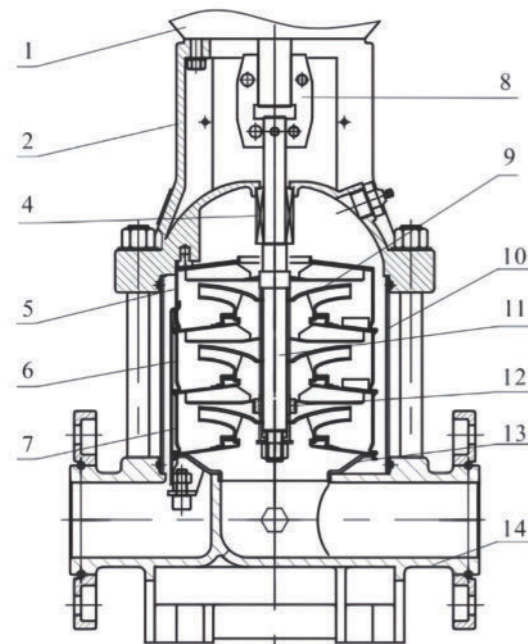
Materials YD/YDS1,2,3,5

S/N	Name	Material	AISI/ASTM
1	Motor	Components	
2	Bracket	Cast iron/ ductile iron	ASTM25B ASTM70-50-05
4	M/S	Components	
5	Outlet diffuser	Stainless steel	AIS1304
6	Diffuse	Stainless steel	AISI304
7	Stainless steel	Stainless steel	AISI304
8	Coupling	Ductile iron	ASTM70-50-05
9	Impeller	Stainless steel	AISI304
10	Cylinder	Stainless steel	A1S1304
11	Shaft	Stainless steel	AISI304 AISI316L
12	Bearing	Tungsten carbide	
13	Inlet Diffuser	Stainless steel	AISI304
YDS			
3	Sealing seat	Stainless steel	AIS1304
14	Casing	Stainless steel	AISI304
15	Base	Cast Iron	ASTM25B
YD			
14	Casing	Cast Iron	ASTM25B

Performance curve YD/YDS10,15,20



YDS

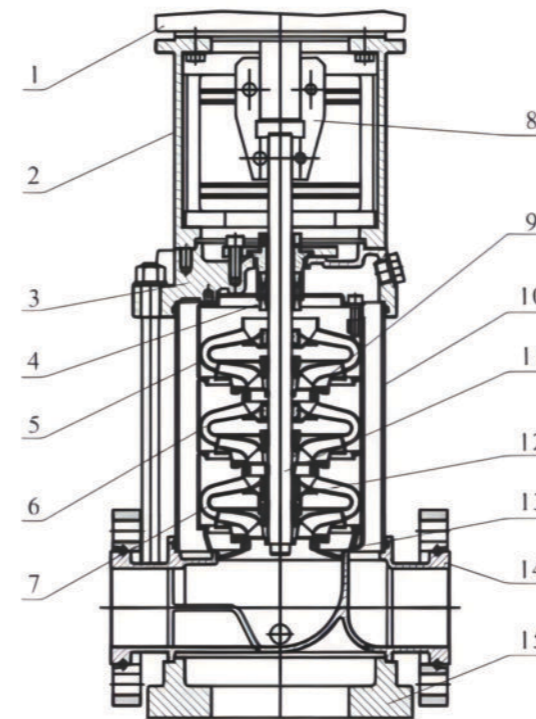


YD

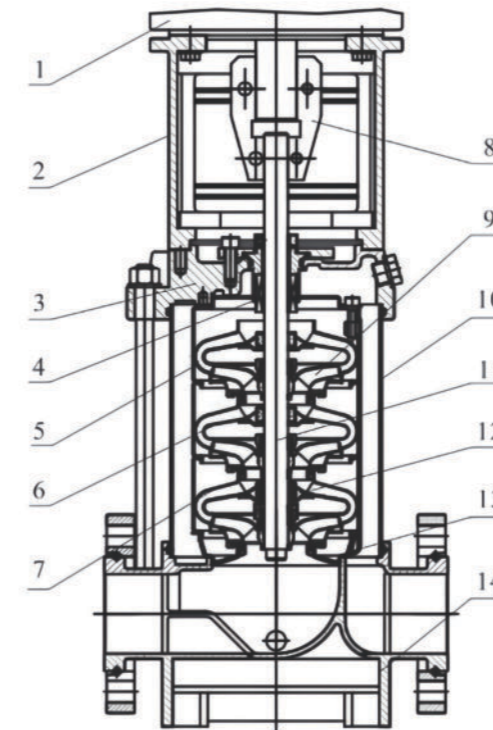
Materials YD/YDS10,15,20

S/N	Name	Material	AISI/ASTM
1	Motor	Components	
2	Bracket	Cast iron/ ductile iron	ASTM25B ASTM70-50-05
4	M/S	Components	
5	Outlet diffuser	Stainless steel	AIS1304
6	Diffuse	Stainless steel	AISI304
7	Stainless steel	Stainless steel	AISI304
8	Coupling	Ductile iron	ASTM70-50-05
9	Impeller	Stainless steel	AISI304
10	Cylinder	Stainless steel	A1S1304
11	Shaft	Stainless steel	AISI304 AISI316L
12	Bearing	Tungsten carbide	
13	Inlet Diffuser	Stainless steel	AISI304
YDS			
3	Sealing seat	Stainless steel	AIS1304
14	Casing	Stainless steel	AISI304
15	Base	Cast Iron	ASTM25B
YD			
14	Casing	Cast Iron	ASTM25B

Structure chart YD/YDS32,45,64,90



YDS

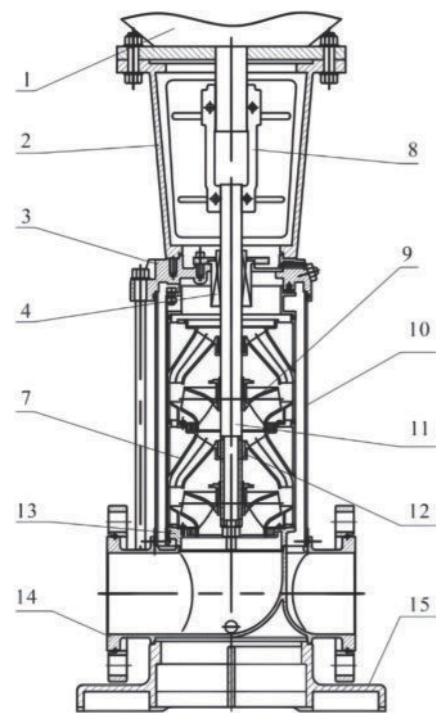


YD

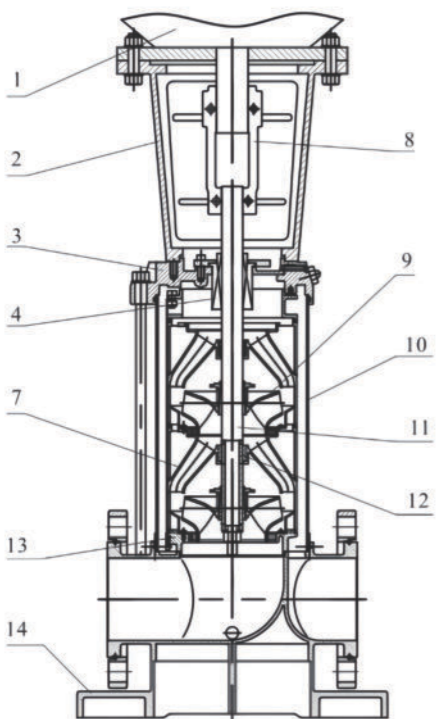
Materials YD/YDS32,45,64,90

S/N	Name	Material	AISI/ASTM
1	Motor	Components	
2	Bracket	Cast iron/ ductile iron	ASTM25B ASTM70 -50 -05
4	M/S	Components	
5	Outlet diffuser	Stainless steel	AIS1304
6	Diffuse	Stainless steel	AISI304
7	Stainless steel	Stainless steel	AISI304
8	Coupling	Ductile iron	ASTM70 -50 -05
9	Impeller	Stainless steel	AISI304
10	Cylinder	Stainless steel	A1S1304
11	Shaft	Stainless steel	AISI304 AISI316L AISI431
12	Bearing	Tungsten carbide	
13	Inlet Diffuser	Stainless steel	AISI304
YDS			
3	Sealing seat	Stainless steel	AIS1304
14	Casing	Stainless steel	AISI304
15	Base	Cast Iron	ASTM25B
YD			
3	Sealing seat	Cast iron/ ductile iron	ASTM25B ASTM70 -50 -05
14	Casing	Cast iron/ ductile iron	ASTM25B ASTM70 -50 -05

Structure chart
YD/YDS120,150,200



YDS



YD

Materials
YD/YDS120,150,200

S/N	Name	Material	AISI/ASTM
1	Motor	Components	
2	Bracket	Cast iron/ ductile iron	ASTM25B ASTM70-50-05
4	M/S	Components	
5	Support diffuser	Stainless steel	AIS1304
6	Coupling	ductile iron	ASTM70-50-05
9	Impelle	Stainless steel	AISI304
10	Cylinder	Stainless steel	A1S1304
11	Shaft	Stainless steel	AISI304 AISI316L AISI431
12	Bearing	Tungsten carbide	
13	Inlet Diffuser	Stainless steel	AISI304
YDS			
3	Sealing seat	Stainless steel	AIS1304
14	Casing	Stainless steel	AISI304
15	Base	Cast iron/ ductile iron	ASTM70-50-05
YD			
3	Sealing seat	Cast iron/ ductile iron	ASTM70-50-05
14	Casing	Cast iron/ ductile iron	ASTM25B ASTM70-50-05

Minimum inlet pressure NPSH

If the pressure in the pump is lower than the vaporization pressure of the delivered liquid, cavitation may occur, in order to avoid cavitation, ensure that the pump inlet side has a minimum pressure, the maximum suction H[m] can be

calculated according to the following formula:

$$H - P_b \times 10.2 - NPSH - H_f - H_v - H_s \quad P_b = \text{Atmospheric pressure [bar]}$$

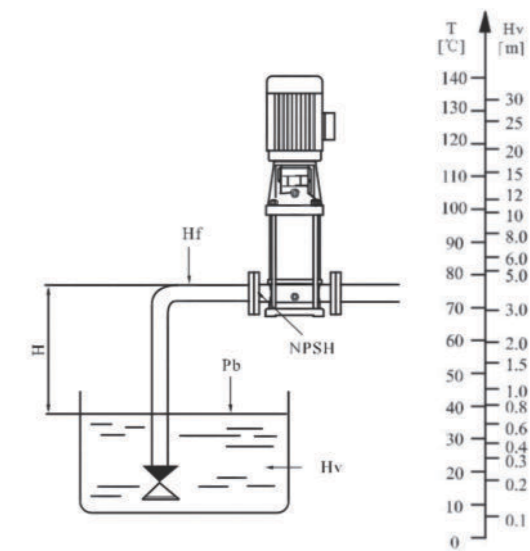
(Atmospheric pressure can be set to 1bar).

In closed system, P_b is system pressure [bar] $NPSH =$ net positive suction head [m](Can be read from the maximum possible flow of the pump on the NPSH curve) $H_f =$ Line loss at the inlet [m] $H_v =$ Vaporization pressure [m]

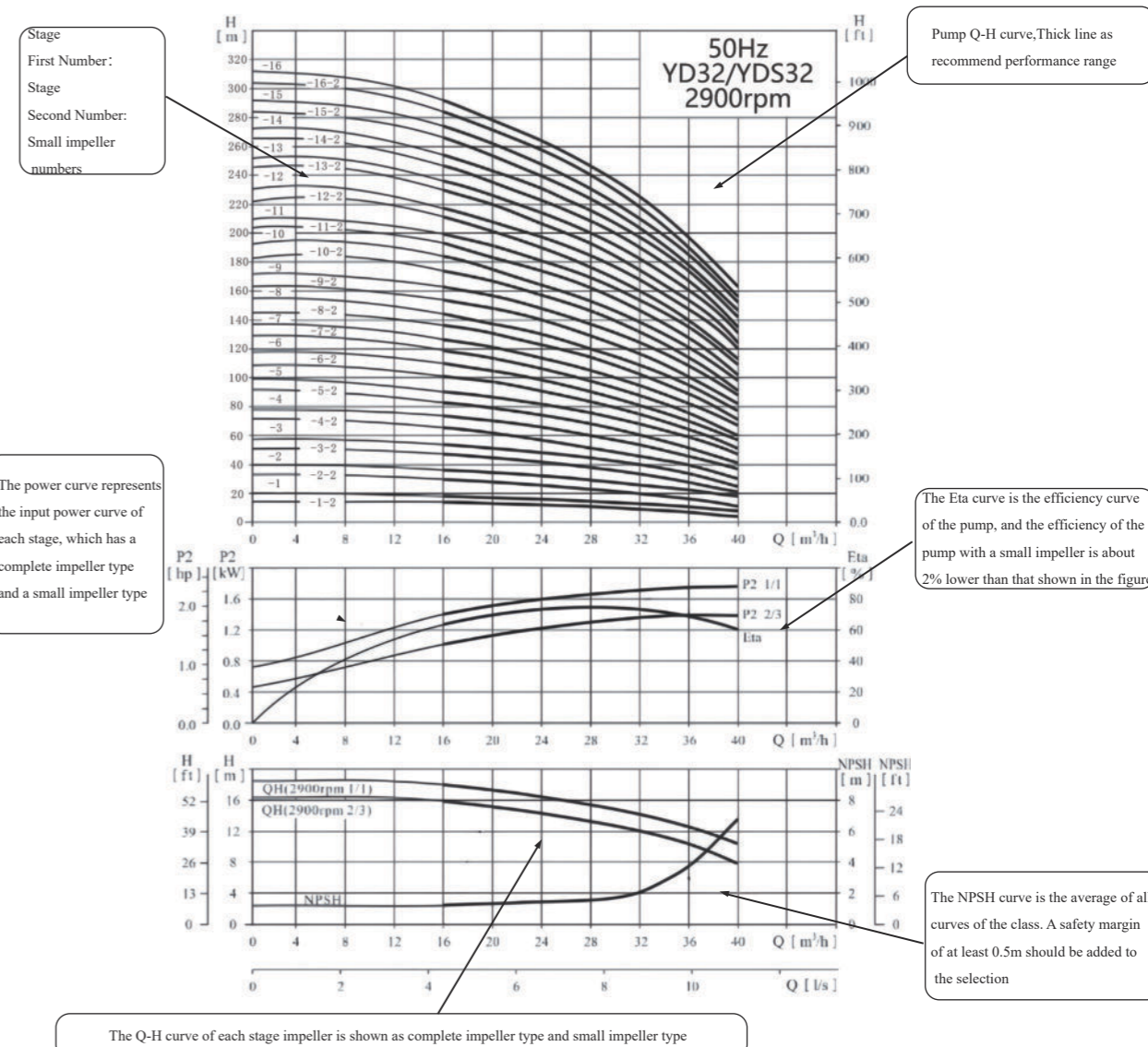
$H_s =$ Safety margin = Minimum 0.5m head

If the calculated H is positive, the pump can operate at maximum suction H.

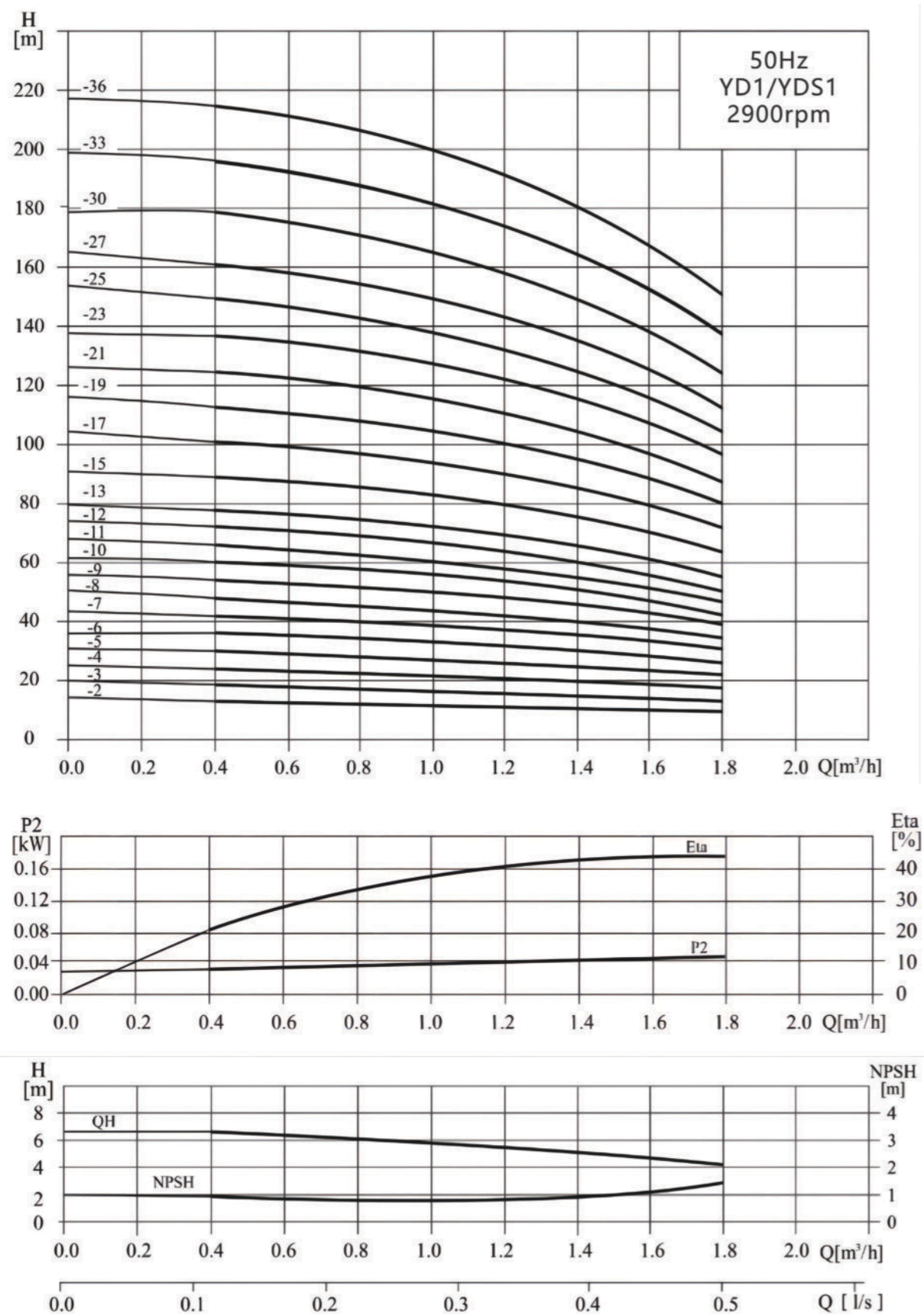
If H is negative, there must be a head with a minimum inlet pressure H.



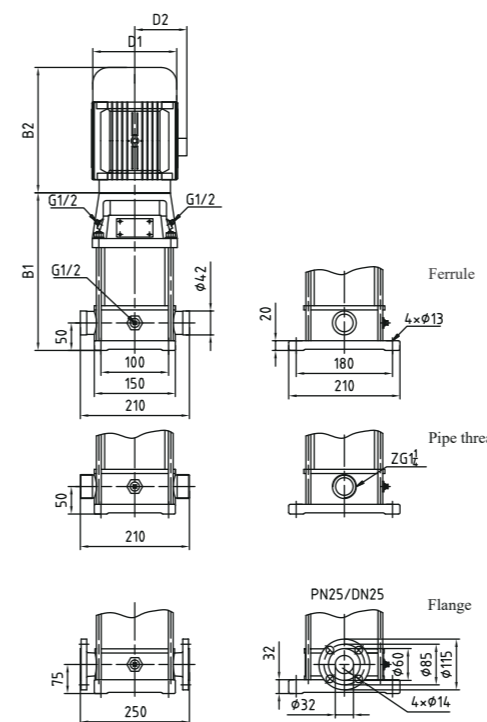
Check to make sure the pump is not/is not cavitation



Performance curve



Installation drawing



Size and weight

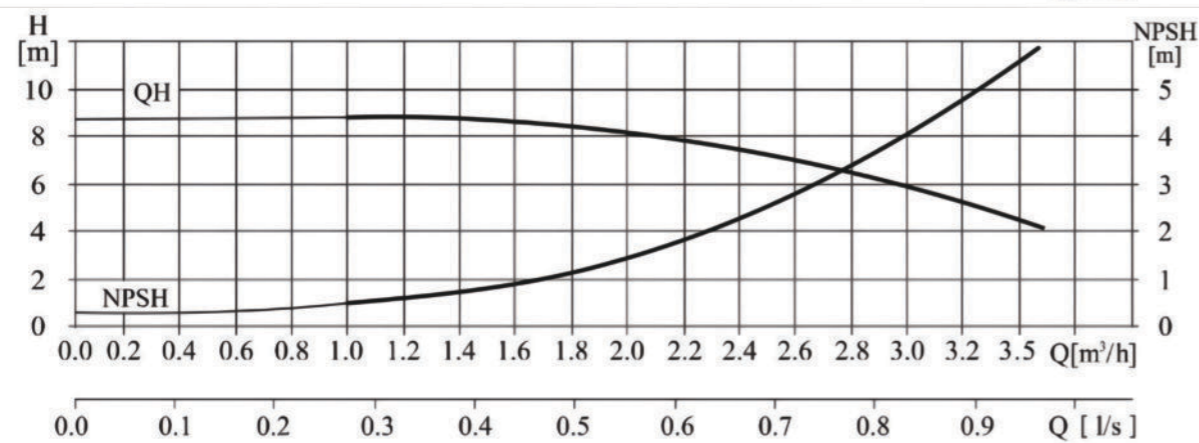
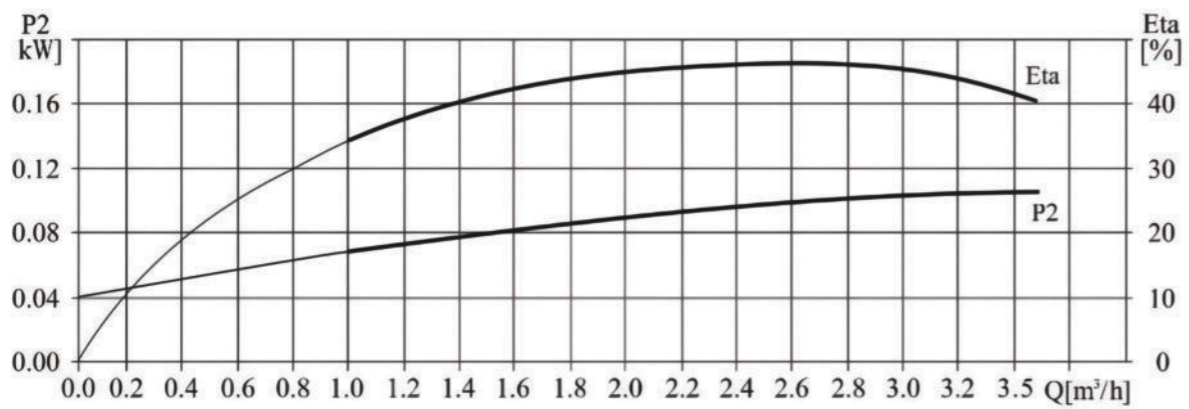
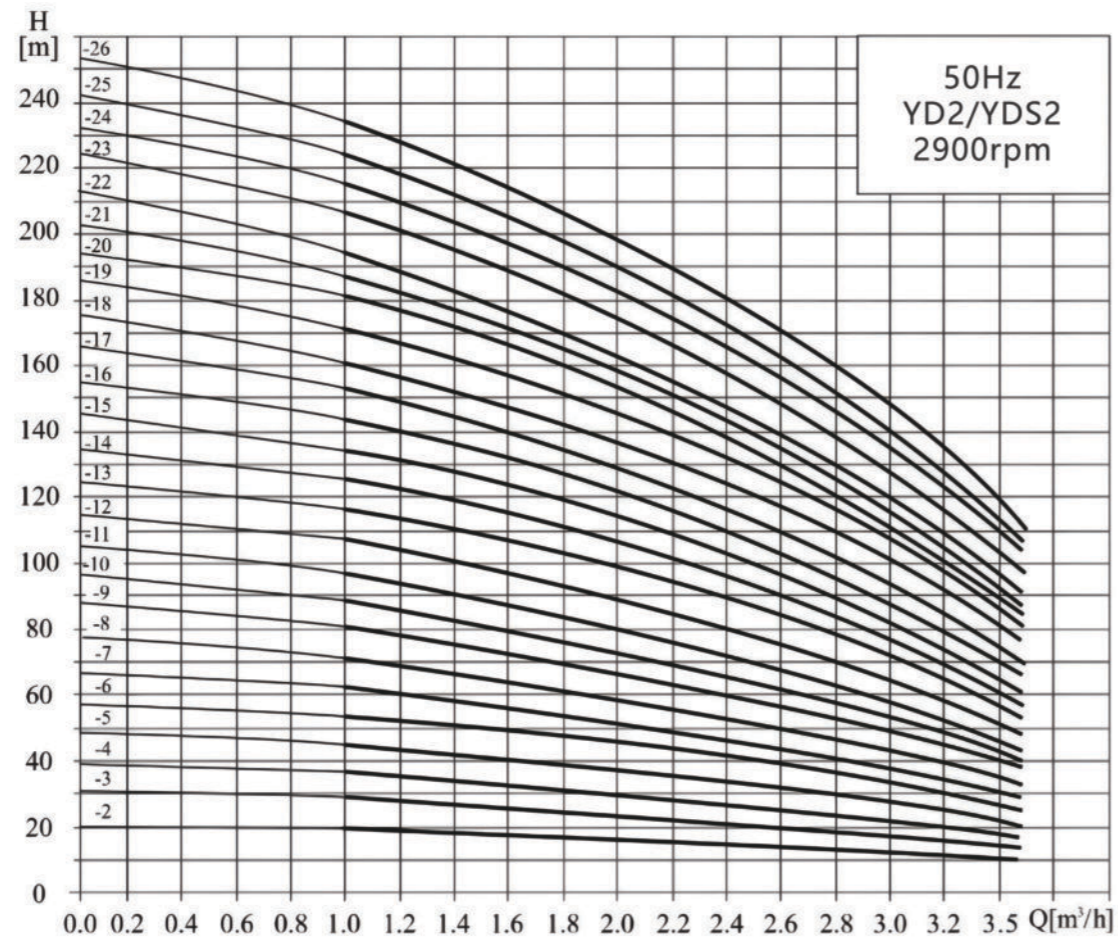
Model	Size (mm)					weight(kg)
	B1	B2	B1+B2	D1	D2	
YD1-2	258	225	483	148	117	20
YD1-3	276	225	501	148	117	20
YD1-4	294	225	519	148	117	21
YD1-5	312	225	537	148	117	21
YD1-6	330	225	555	148	117	22
YD1-7	348	225	573	148	117	23
YD1-8	366	225	591	148	117	24
YD1-9	384	225	609	148	117	25
YD1-10	402	225	627	148	117	26
YD1-11	420	225	645	148	117	26
YD1-12	448	245	693	170	142	29
YD1-13	466	245	711	170	142	30
YD1-15	502	245	747	170	142	31
YD1-17	538	245	783	170	142	33
YD1-19	574	245	819	170	142	34
YD1-21	610	245	855	170	142	35
YD1-23	646	245	891	170	142	36
YD1-25	692	290	982	190	155	42
YD1-27	728	290	1018	190	155	43
YD1-30	782	290	1072	190	155	45
YD1-33	836	290	1126	190	155	49
YD1-36	890	290	1180	190	155	51

Performance Table

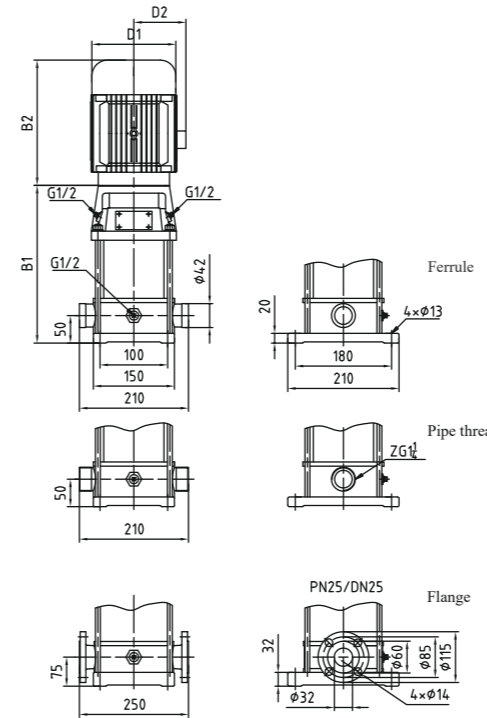
Model	Equipped with a motor (kW)	Q (m³/h)	H (m)																	
			0.4	0.6	0.8	1	1.2	1.4	1.6	1.8										
YD1-2	0.37	13	12.5	12	11.5	11	10.5	10	9.5											
YD1-3	0.37	19	18	17.5	17	16.5	16	15	14											
YD1-4	0.37	24	23.5	23	22.5	21.5	21	19	18											
YD1-5	0.37	30	29.6	29	28	27	26	24	22											
YD1-6	0.37	36	35.5	35	33.5	33	31	28	26											
YD1-7	0.37	42	41	40.5	39	38	36	33	30											
YD1-8	0.55	48	47	46	45	43	41	38	34											
YD1-9	0.55	54	53	52	51	49	46	43	39											
YD1-10	0.55	60	59	58	57	54	51	48	43											
YD1-11	0.55	66	65	63	61	59	56	52	47											
YD1-12	0.75	72	71	69	67	64	61	57	51											
YD1-13	0.75	78	77	75	73	69	66	62	55											
YD1-15	0.75	89	88	86	84	79	76	71	63											
YD1-17	1.1	101	99	97	95	89	86	80	71											
YD1-19	1.1	113	110	108	106	99	96	89	79											
YD1-21	1.1	124	122	120	117	110	106	98	87											
YD1-23	1.1	137	133	131	128	121	116	107	96											
YD1-25	1.5	149	145	143	139	131	126	116	104											
YD1-27	1.5	161	157	155	150	141	136	125	112											
YD1-30	1.5	178	175	171	166	157	150	139	124											
YD1-33	2.2	196	192	188	183	173	165	154	137											
YD1-36	2.2	214	210	205	200	190	181	169	151											

Single-phase motor, Explosion proof motor dimensions have changed, please consult the company for details.

Performance curve



Installation drawing



Size and weight

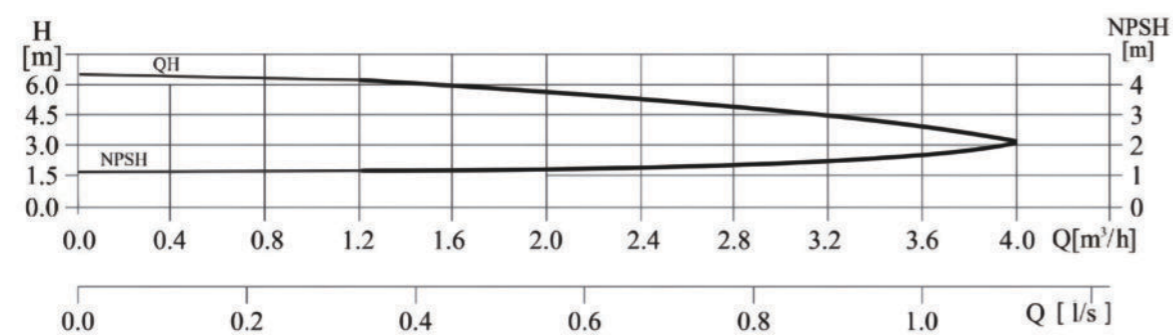
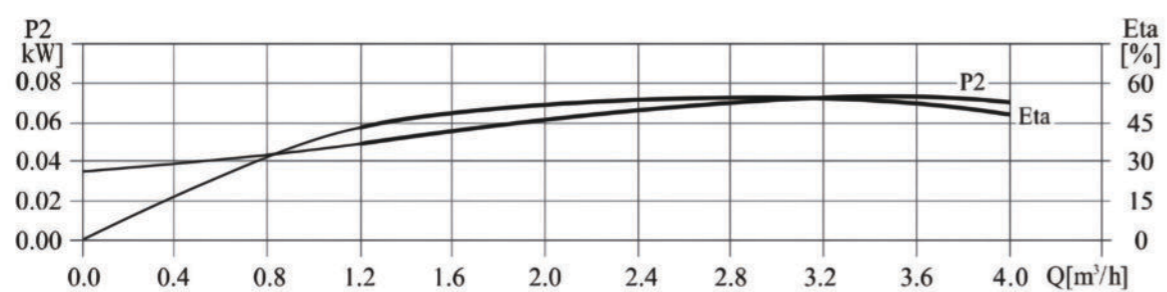
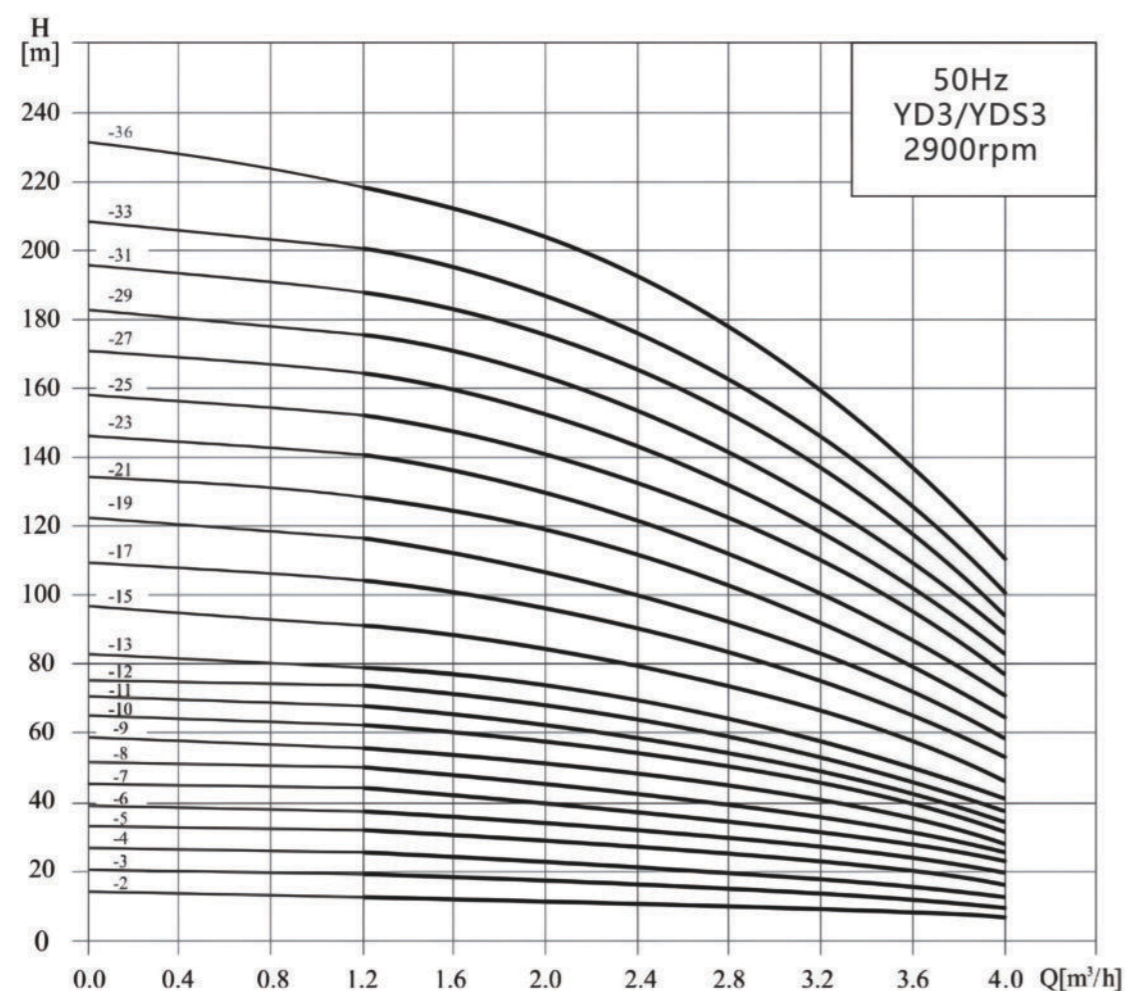
Model	Size (mm)					weight (kg)
	B1	B2	B1+B2	D1	D2	
YD2-2	258	225	483	148	117	20
YD2-3	276	225	501	148	117	20
YD2-4	294	225	519	148	117	22
YD2-5	312	225	537	148	117	23
YD2-6	340	245	585	170	142	26
YD2-7	358	245	603	170	142	26
YD2-9	394	245	639	170	142	28
YD2-11	430	245	675	170	142	29
YD2-13	476	290	766	190	155	35
YD2-15	512	290	802	190	155	36
YD2-18	566	290	856	190	155	41
YD2-22	638	290	928	190	155	42
YD2-26	720	345	1065	197	165	52

Performance Table

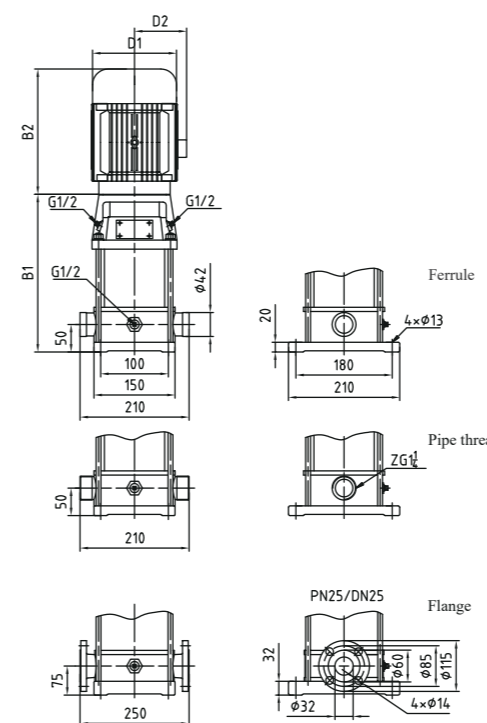
Model	Equipped with a motor (kW)	Q (m³/h)	1	1.2	1.6	2	2.4	2.8	3.2	3.5
YD2-2	0.37	H (m)	18	17	16	15	13	12	10	8
YD2-3	0.37		27	26	24	22	20	18	15	12
YD2-4	0.55		36	35	33	30	26	24	20	16
YD2-5	0.55		45	43	40	37	33	30	24	20
YD2-6	0.75		53	52	50	45	40	36	30	24
YD2-7	0.75		63	61	57	52	47	41	35	28
YD2-9	1.1		80	78	73	67	61	54	45	37
YD2-11	1.1		98	95	89	82	73	64	54	44
YD2-13	1.5		116	114	106	98	89	78	65	52
YD2-15	1.5		134	130	123	112	100	90	73	60
YD2-18	2.2		161	157	148	136	121	105	91	76
YD2-22	2.2		197	192	180	165	148	130	110	90
YD2-26	3	232	228	214	198	179	158	130	110	

Single-phase motor, Explosion proof motor dimensions have changed, please consult the company for details.

Performance curve



Installation drawing



Size and weight

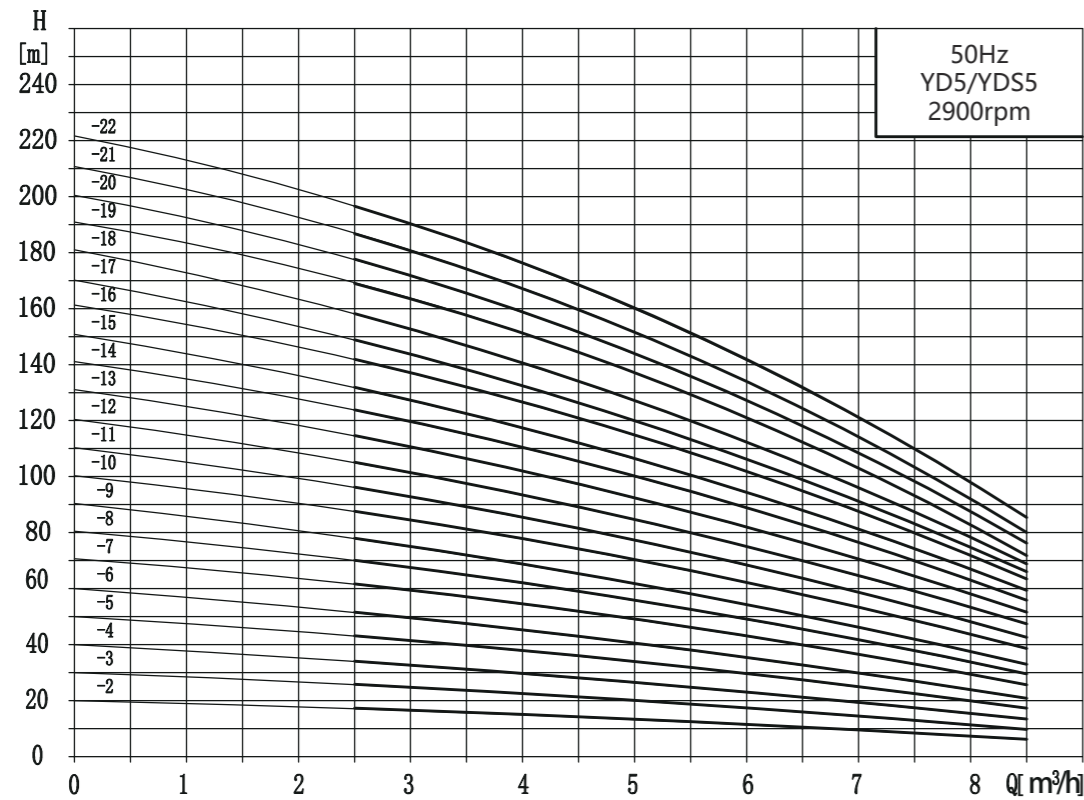
Model	Size (mm)					weight (kg)
	B1	B2	B1+B2	D1	D2	
YD3-2	258	225	483	148	117	20
YD3-3	276	225	501	148	117	20
YD3-4	294	225	519	148	117	21
YD3-5	312	225	537	148	117	21
YD3-6	330	225	555	148	117	23
YD3-7	348	225	573	148	117	24
YD3-8	376	245	621	170	142	27
YD3-9	394	245	639	170	142	28
YD3-10	412	245	657	170	142	28
YD3-11	430	245	675	170	142	29
YD3-12	448	245	693	170	142	30
YD3-13	466	245	711	170	142	31
YD3-15	502	245	747	170	142	32
YD3-17	548	290	838	190	155	38
YD3-19	584	290	874	190	155	39
YD3-21	620	290	910	190	155	42
YD3-23	656	290	946	190	155	43
YD3-25	692	290	982	190	155	44
YD3-27	728	290	1018	190	155	45
YD3-29	764	290	1054	190	155	46
YD3-31	810	345	1155	197	165	54
YD3-33	846	345	1191	197	165	55
YD3-36	900	345	1245	197	165	57

Performance Table

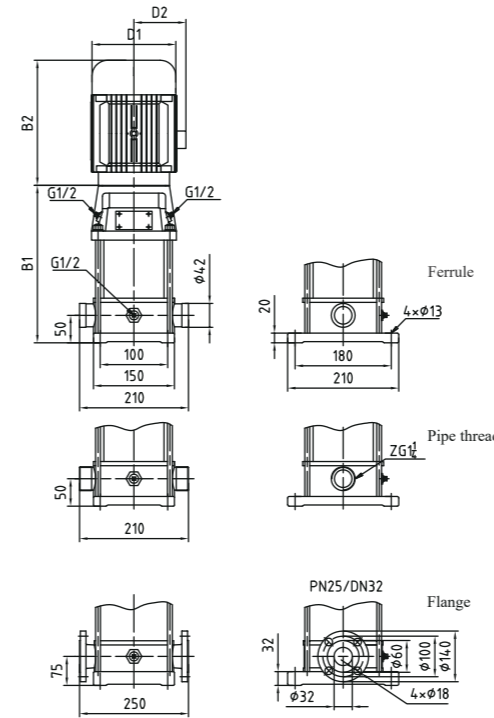
Model	Equipped with a motor (kW)	Q (m³/h)	H (m)											
			1.2	1.6	2	2.4	2.8	3	3.2	3.6	4			
YD3-2	0.37		12.5	11.5	11	10.5	10	9	8	7	6			
YD3-3	0.37		19	18.5	17.5	16.5	15	14	13	11	9			
YD3-4	0.37		25	24	23	21.5	20	19	18	15	12			
YD3-5	0.37		31	30	29	27	25	23	22	19	16			
YD3-6	0.55		36	35	34	32	30	28	27	23	19			
YD3-7	0.55		43	41	39	37	34	32	31	27	22			
YD3-8	0.75		49	47	45	43	39	37	35	31	25			
YD3-9	0.75		55	53	51	48	45	42	40	35	28			
YD3-10	0.75		61	59	57	54	50	47	45	39	31			
YD3-11	1.1		67	64	61	58	54	51	49	42	34			
YD3-12	1.1		73	70	67	63	58	55	52	45	37			
YD3-13	1.1		78	76	73	69	64	60	57	49	40			
YD3-15	1.1		90	88	84	79	73	69	66	57	46			
YD3-17	1.5		103	100	96	90	83	79	75	64	52			
YD3-19	1.5		115	112	107	100	92	88	83	72	58			
YD3-21	2.2		128	124	119	112	102	98	91	79	64			
YD3-23	2.2		140	135	130	122	112	107	100	86	70			
YD3-25	2.2		151	147	141	131	122	116	109	94	76			
YD3-27	2.2		164	159	152	143	132	124	117	101	82			
YD3-29	2.2		175	170	163	153	142	133	126	109	88			
YD3-31	3		187	182	175	165	153	142	135	116	94			
YD3-33	3		199	194	187	176	163	151	145	125	100			
YD3-36	3		218	212	204	192	178	168	159	137	109			

Single-phase motor, Explosion proof motor dimensions have changed, please consult the company for details.

Performance curve



Installation drawing

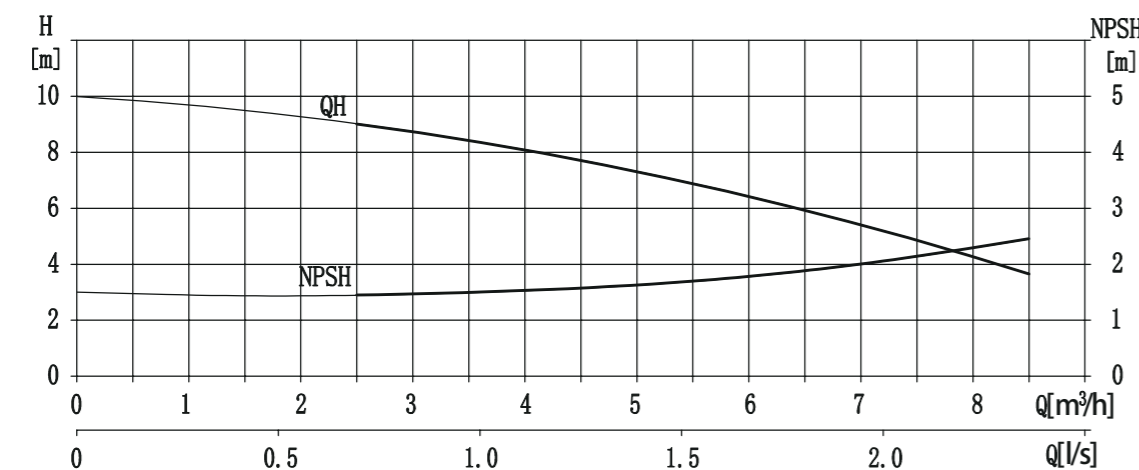
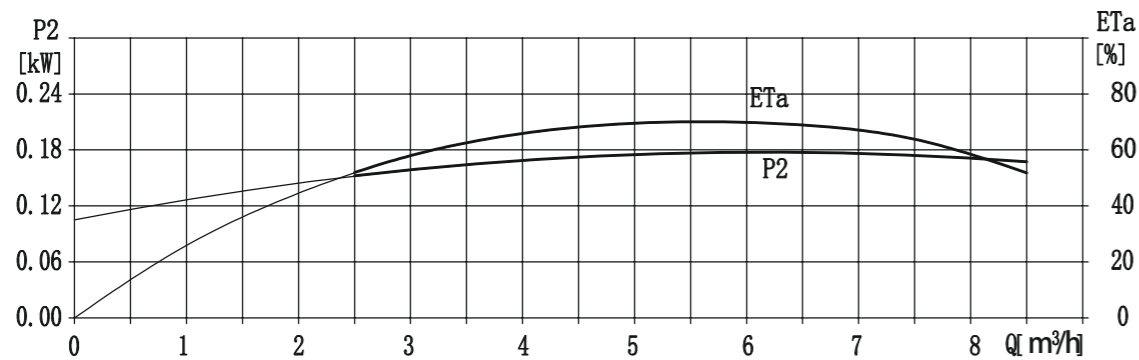


Size and weight

Model	Size(mm)					weight (kg)
	B1	B2	B1+B2	D1	D2	
YD5-2	276	225	501	148	117	21
YD5-3	303	225	528	148	117	22
YD5-4	340	245	585	170	142	25
YD5-5	367	245	612	170	142	27
YD5-6	394	245	639	170	142	27
YD5-7	431	290	721	190	155	33
YD5-8	458	290	748	190	155	33
YD5-10	512	290	802	190	155	37
YD5-12	566	290	856	190	155	38
YD5-14	630	345	975	197	165	46
YD5-16	684	345	1029	197	165	48
YD5-19	765	355	1120	230	188	57
YD5-22	846	355	1201	230	188	59

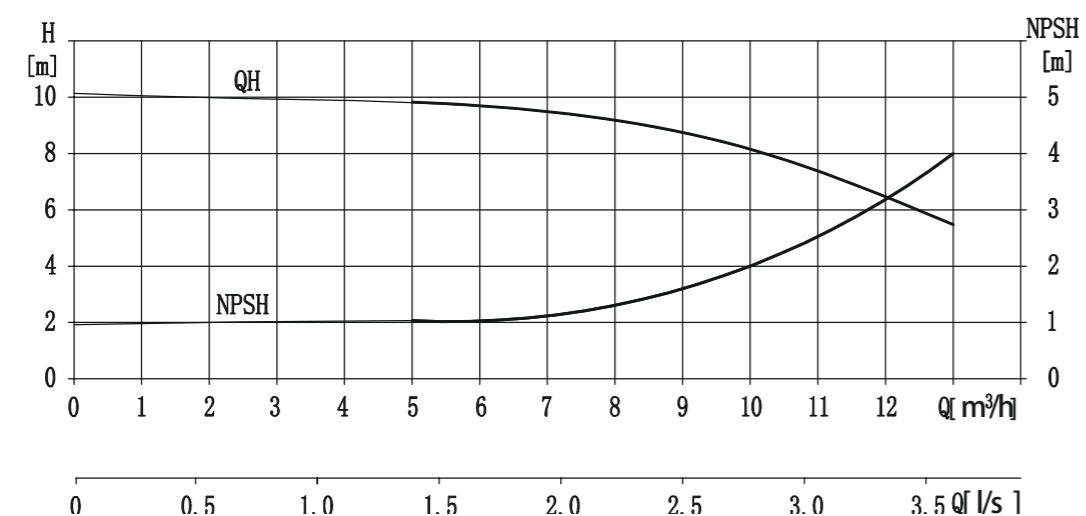
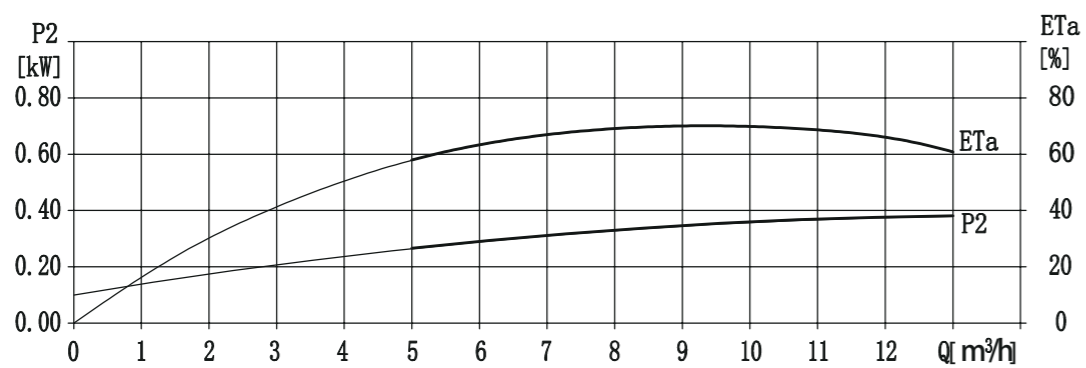
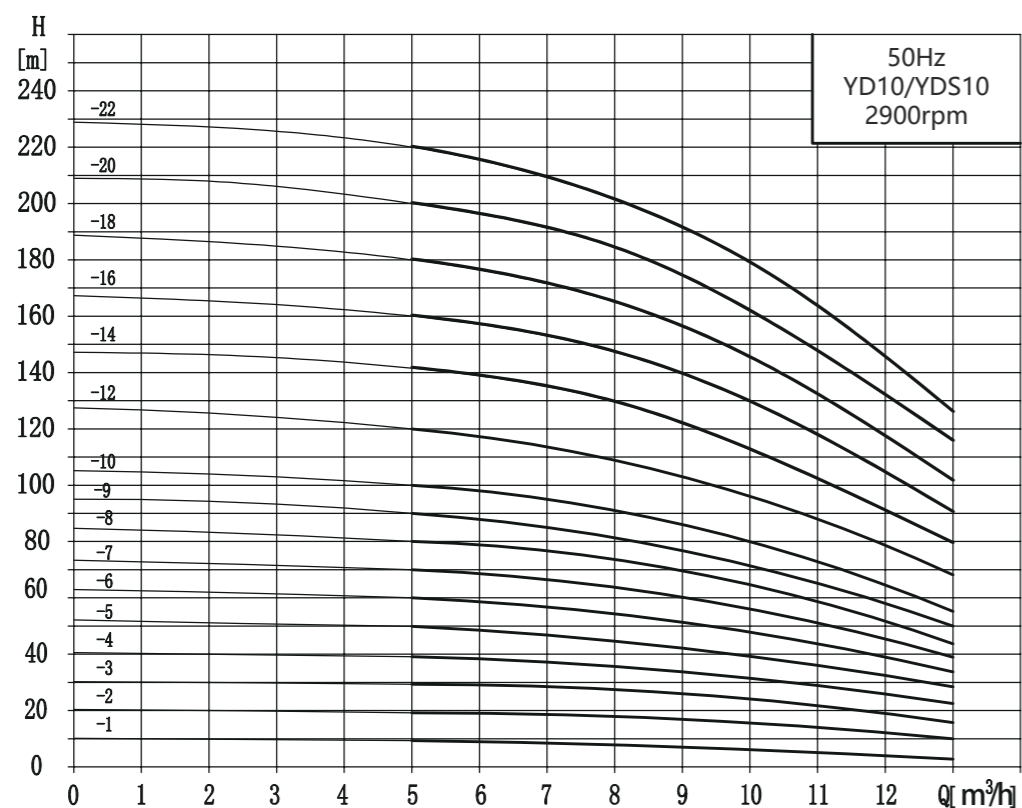
Performance Table

Model	Equipped with a motor (kW)	Q (m³/h)	H (m)									
			2.5	3	4	5	6	7	8	8.5		
YD5-2	0.37		17.4	17	15	13	10	8	7	6		
YD5-3	0.55		26.5	26	24	20	18	13	11	9		
YD5-4	0.75		34.6	34	32	27	24	19	17	15		
YD5-5	1.1		43.6	43	40	34	31	23	20	17		
YD5-6	1.1		52.7	52	48	41	37	29	25	22		
YD5-7	1.5		62	61	56	48	43	34	28	24		
YD5-8	1.5		71	70	64	55	50	42	35	29		
YD5-10	2.2		88	87	81	71	62	53	44	38		
YD5-12	2.2		106	104	95	85	75	64	53	47		
YD5-14	3		124	122	112	101	89	76	64	56		
YD5-16	3		142	140	129	115	101	88	71	62		
YD5-19	4		171	168	153	137	122	102	92	73		
YD5-22	4		195	192	178	160	138	120	99	84		

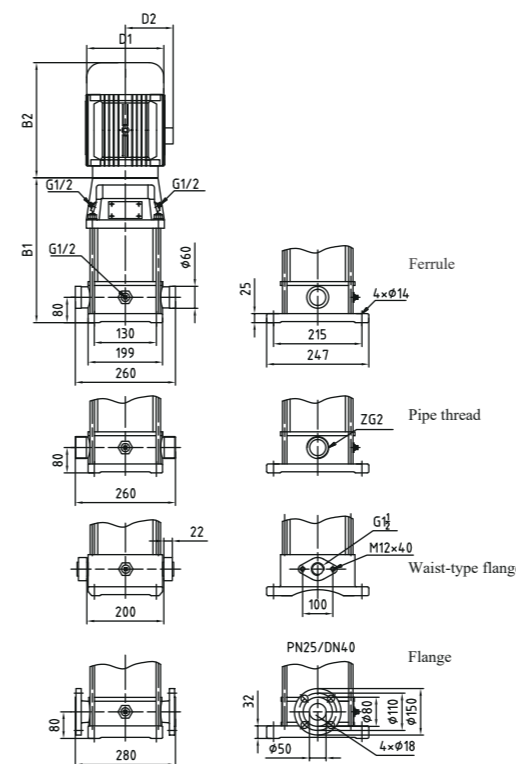


Single-phase motor, Explosion proof motor dimensions have changed, please consult the company for details.

Performance curve



Installation drawing



Size and weight

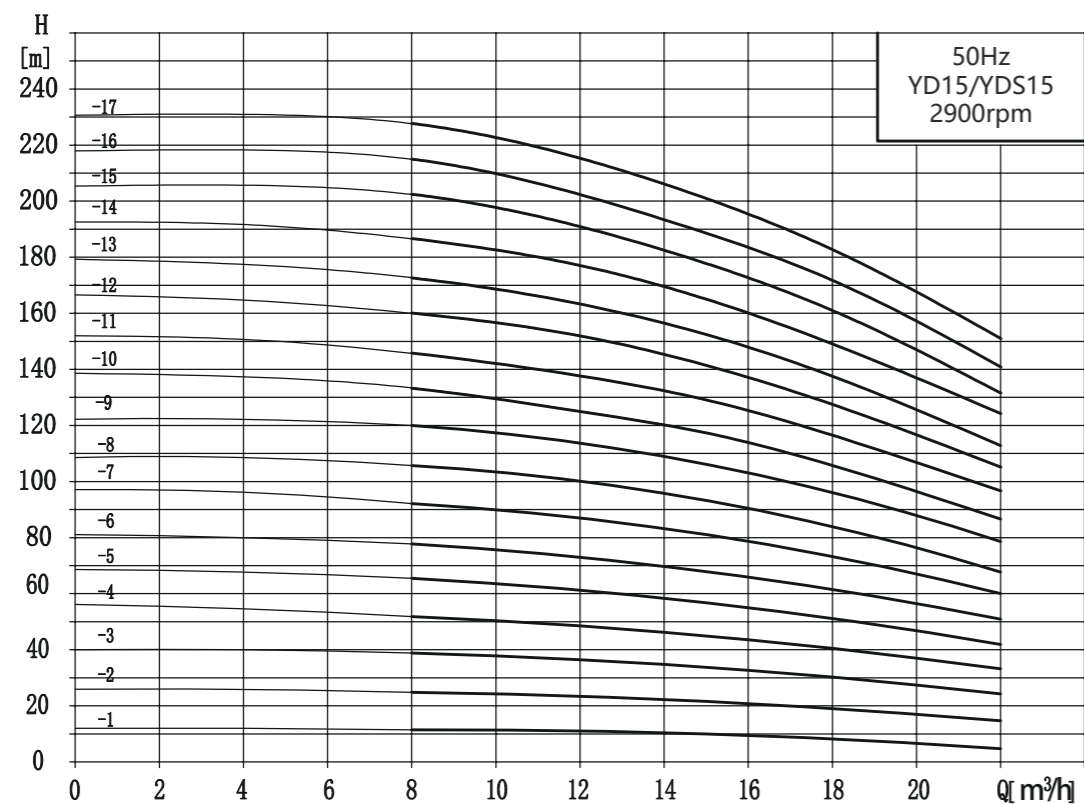
Model	Size (mm)					weight (kg)
	B1	B2	B1+B2	D1	D2	
YD10-1	347	245	592	170	142	40
YD10-2	347	245	592	170	142	41
YD10-3	377	245	622	170	142	43
YD10-4	417	290	707	190	155	49
YD10-5	447	290	737	190	155	53
YD10-6	477	290	767	190	155	54
YD10-7	517	345	862	197	165	64
YD10-8	547	345	892	197	165	65
YD10-9	577	345	922	197	165	66
YD10-10	607	355	962	230	185	74
YD10-12	667	355	1022	230	188	76
YD10-14	747	390	1137	260	208	100
YD10-16	807	390	1197	260	208	102
YD10-18	867	390	1257	260	208	107
YD10-20	927	390	1317	260	208	109
YD10-22	987	390	1377	260	208	111

Performance Table

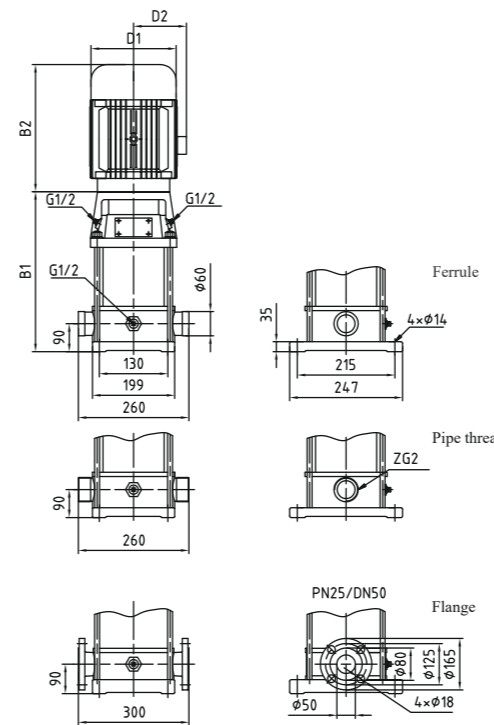
Model	Equipped with a motor (kW)	Q (m³/h)	H (m)										
			5	6	7	8	9	10	11	12	13		
YD10-1	0.75	9.7	9.3	8.9	8.3	7.7	7	6	5	4			
YD10-2	0.75	19.5	19	18	17	16	15	13.5	11.5	10			
YD10-3	1.1	29.5	29	28	27	25	23	21	18	16			
YD10-4	1.5	39.5	38.5	37.5	36	34	31	28	25	22			
YD10-5	2.2	49.5	48.5	47	44	42	39	35	32	28			
YD10-6	2.2	60	58	56	54	51	48	43	39	34			
YD10-7	3	70	68	66	63	60	56	51	45	39			
YD10-8	3	80	78	75	73	69	64	58	52	44			
YD10-9	3	90	87	85	81	77	72	66	58	50			
YD10-10	4	100	97	95	90	85	80	74	66	56			
YD10-12	4	120	117	114	109	104	96	89	79	68			
YD10-14	5.5	140	137	134	129	122	113	103	92	79			
YD10-16	5.5	160	158	153	148	140	129	119	106	91			
YD10-18	7.5	180	177	172	166	156	145	133	119	102			
YD10-20	7.5	200	196	191	184	173	162	147	132	114			
YD10-22	7.5	220	216	210	202	190	178	162	145	126			

Single-phase motor, Explosion proof motor dimensions have changed, please consult the company for details.

Performance curve

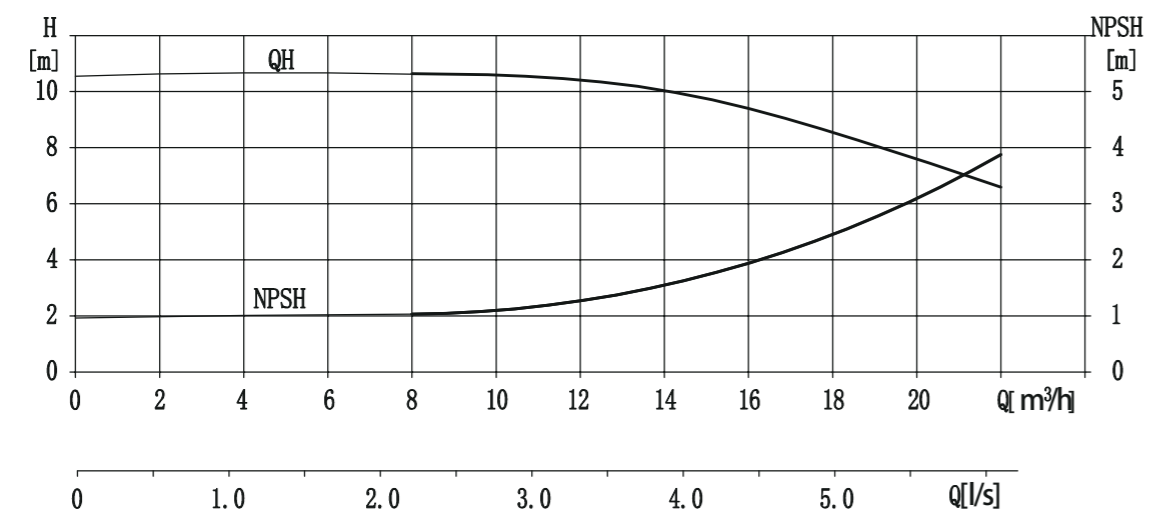
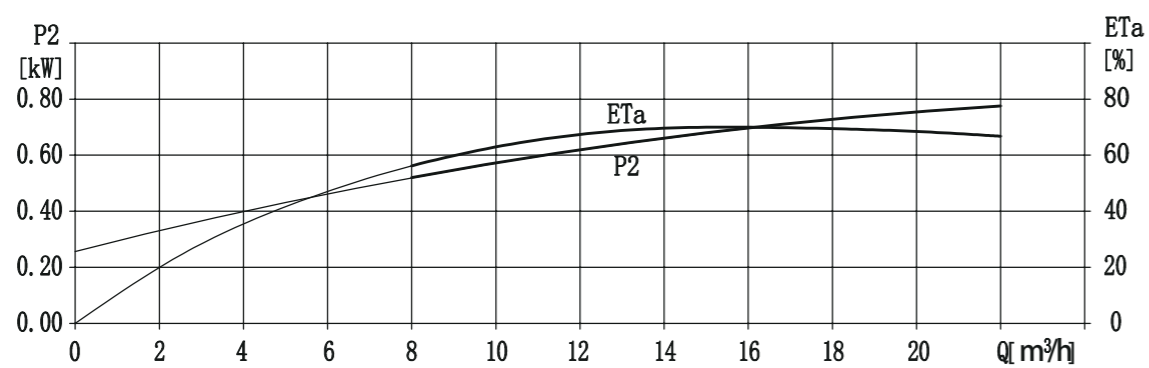


Installation drawing



Size and weight

Model	Size (mm)					weight (kg)
	B1	B2	B1+B2	D1	D2	
YD15-1	387	245	632	170	142	33
YD15-2	397	290	687	190	155	42
YD15-3	452	345	797	197	165	51
YD15-4	497	355	852	230	188	60
YD15-5	542	355	897	230	188	62
YD15-6	607	390	997	260	208	78
YD15-7	652	390	1042	260	208	80
YD15-8	697	390	1087	260	208	86
YD15-9	742	390	1132	260	208	88
YD15-10	875	500	1375	330	255	166
YD15-12	965	500	1465	330	255	170
YD15-14	1055	500	1555	330	255	173
YD15-17	1190	500	1690	330	255	186

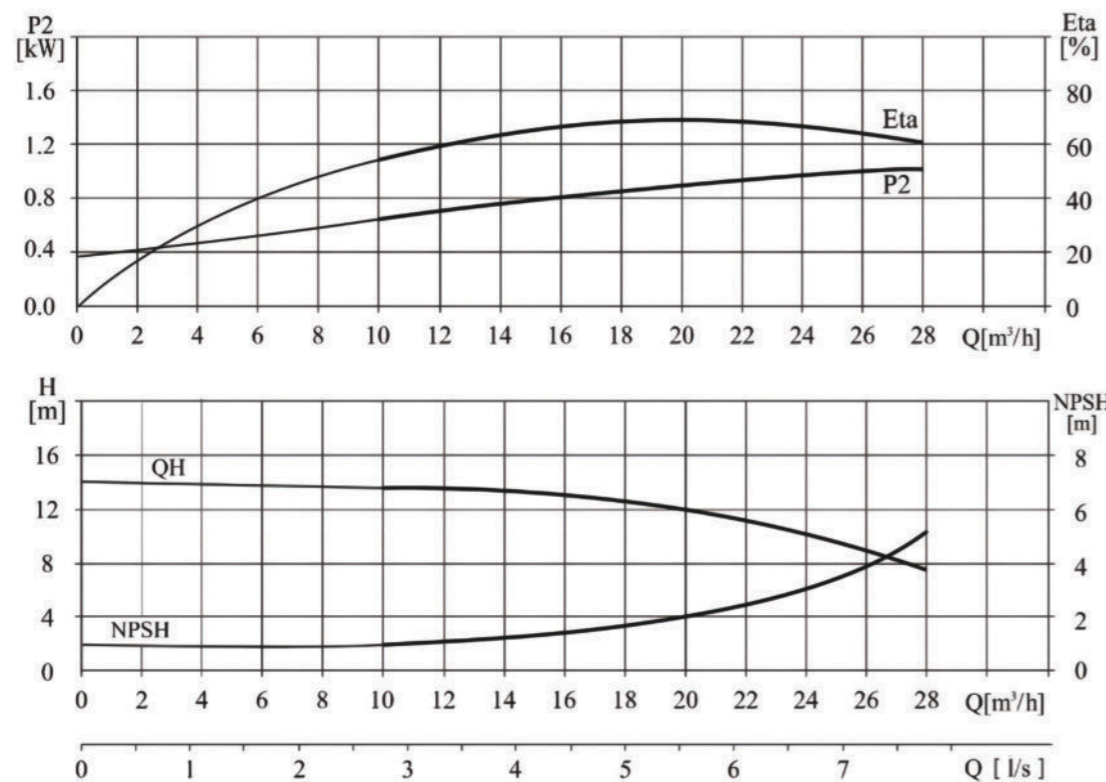
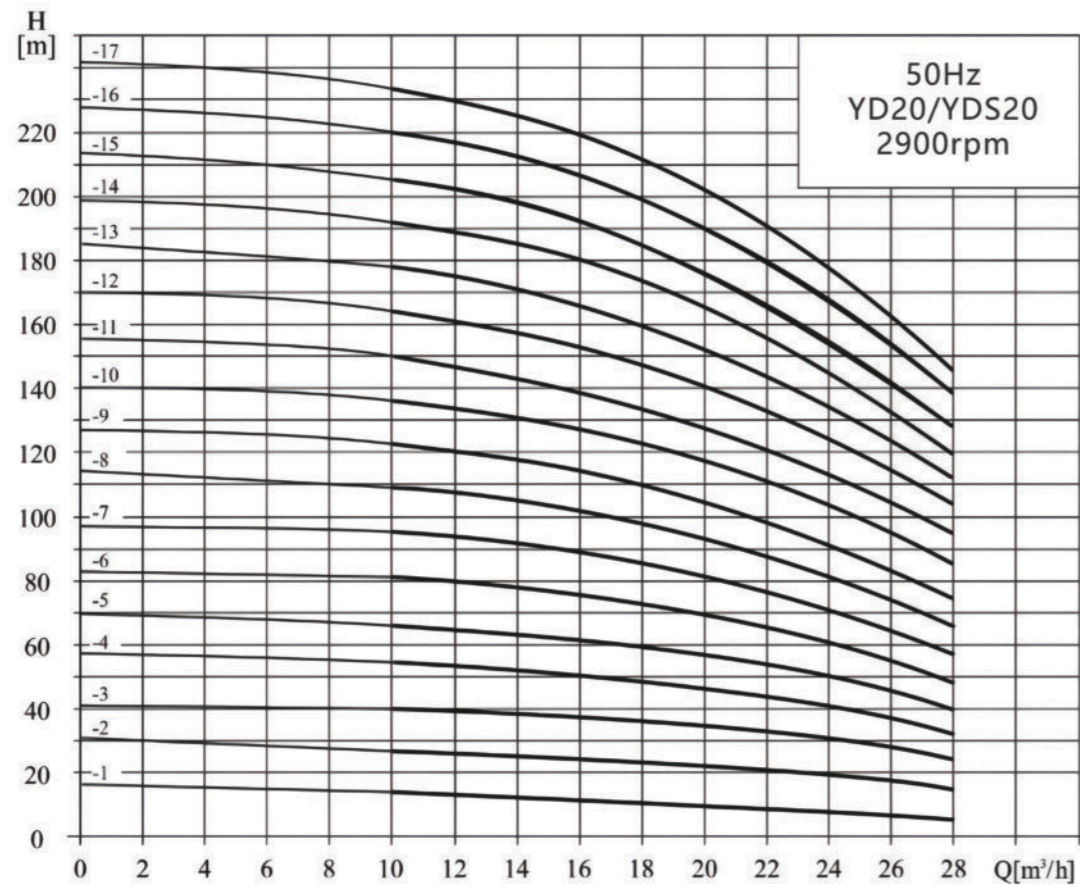


Performance Table

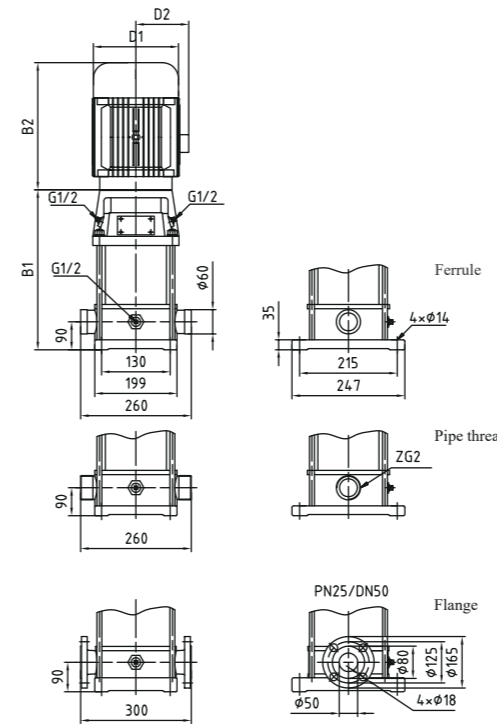
Model	Equipped with a motor (kW)	Q (m³/h)	8	10	12	14	15	16	18	20	22
YD15-1	1.1	H (m)	12	11.5	11	10.5	10	9.5	8.5	7.5	6.5
YD15-2	2.2		25	24.5	24	23	22.5	21.5	20	18	16
YD15-3	3		39	38	37	35	34	33	30	28	25
YD15-4	4		52	51	49	46	45	44	40	37	33
YD15-5	4		65	63	61	59	57	55	51	47	42
YD15-6	5.5		78	76	74	71	69	67	62	57	51
YD15-7	5.5		92	90	87	83	81	79	73	67	60
YD15-8	7.5		106	103	100	96	93	90	84	77	69
YD15-9	7.5		120	117	114	109	106	103	95	87	79
YD15-10	11		133	130	126	121	118	114	106	97	88
YD15-12	11		160	157	152	146	142	138	128	117	106
YD15-14	11		187	182	177	169	165	160	149	137	124
YD15-17	15		227	222	215	206	201	195	182	167	151

Single-phase motor, Explosion proof motor dimensions have changed, please consult the company for details.

Performance curve



Installation drawing



Size and weight

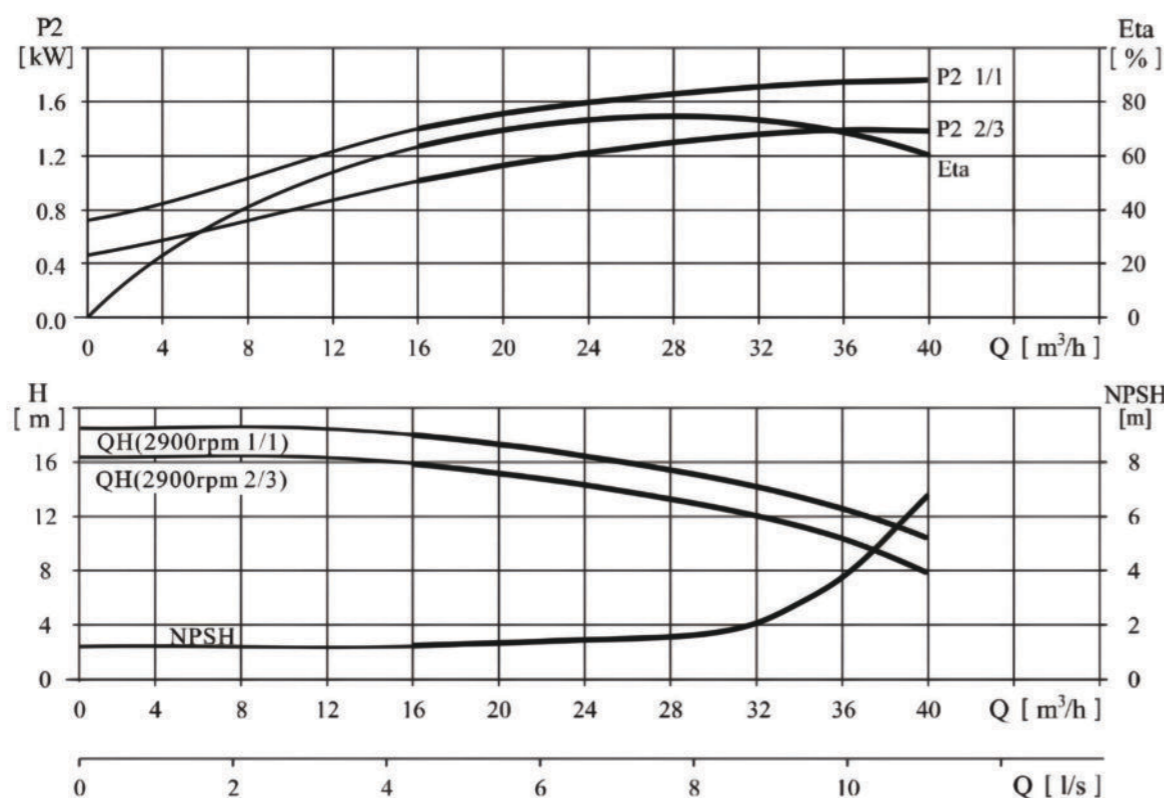
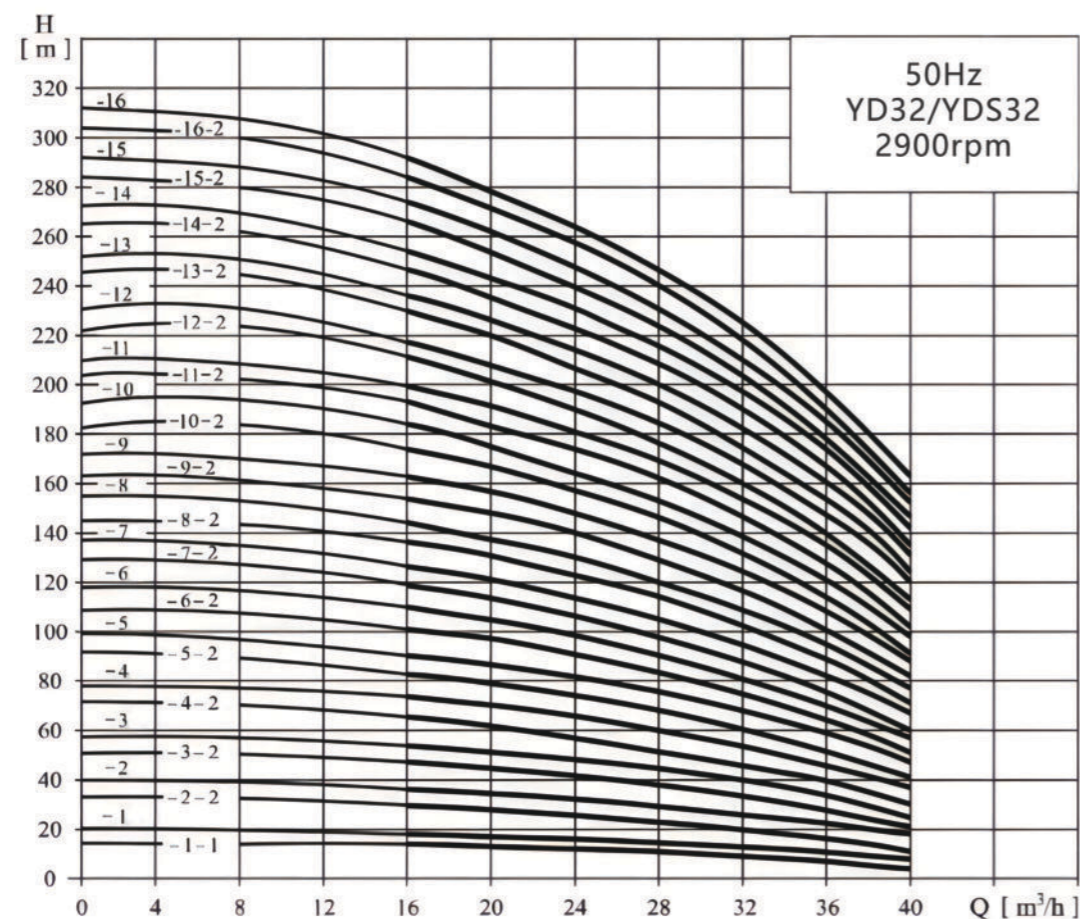
Model	Size (mm)					weight (kg)
	B1	B2	B1+B2	D1	D2	
YD20-1	387	245	632	170	142	33
YD20-2	397	290	687	190	155	42
YD20-3	452	355	807	230	188	58
YD20-4	517	390	907	260	208	74
YD20-5	562	390	952	260	208	76
YD20-6	607	390	997	260	208	82
YD20-7	652	390	1042	260	208	84
YD20-8	697	390	1087	260	208	101
YD20-10	875	500	1375	330	255	157
YD20-12	965	500	1465	330	255	170
YD20-14	1055	500	1555	330	255	172
YD20-17	1190	550	1740	330	255	195

Performance Table

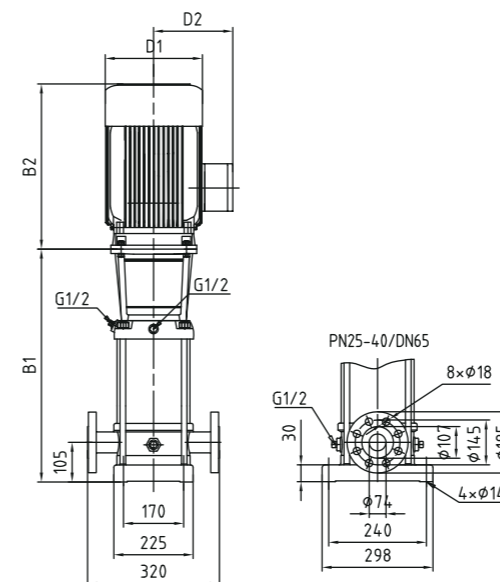
Model	Equipped with a motor(kW)	Q (m³/h)	H (m)										
			10	12	14	16	18	20	22	24	26	28	
YD20-1	1.1		13.5	13	12.5	12	11	10	9	8	7	6	
YD20-2	2.2		27	26.5	26	25	24	23	22	20	18	15	
YD20-3	4		40	39.5	39	38	37	35	33	30	27	24	
YD20-4	5.5		54	53	52	51	49	47	44	41	37	33	
YD20-5	5.5	H	67	66	64	62	60	58	55	50	45	40	
YD20-6	7.5	(m)	81	79	77	75	73	70	66	61	55	49	
YD20-7	7.5		95	93	91	89	86	82	77	71	65	58	
YD20-8	11		109	107	105	102	99	94	89	82	75	67	
YD20-10	11		136	134	131	128	124	118	111	103	95	85	
YD20-12	15		164	162	158	154	149	142	133	124	114	102	
YD20-14	15		192	189	185	180	174	166	156	145	133	119	
YD20-17	18.5		234	230	225	219	212	202	190	177	162	145	

Single-phase motor, Explosion proof motor dimensions have changed, please consult the company for details.

Performance curve



Installation drawing



Size and weight

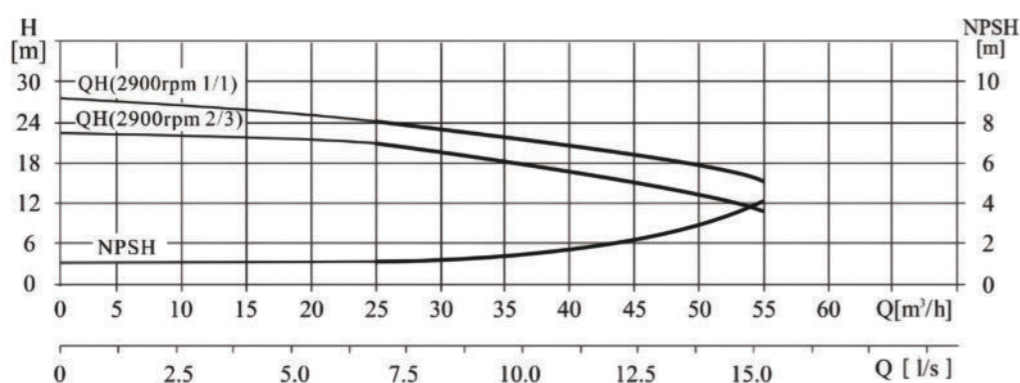
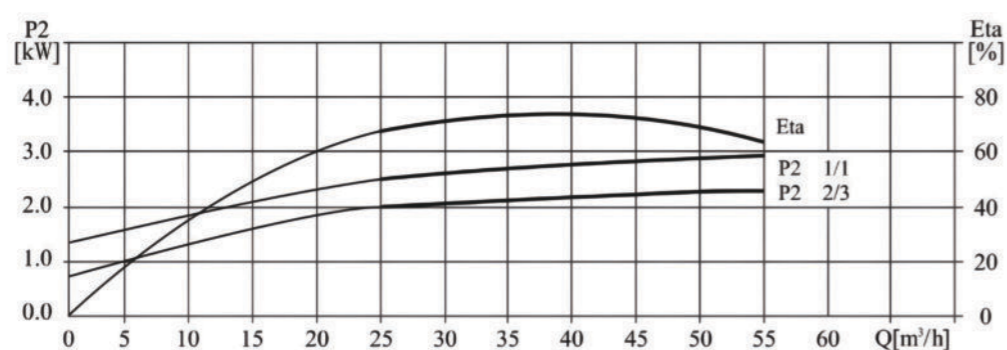
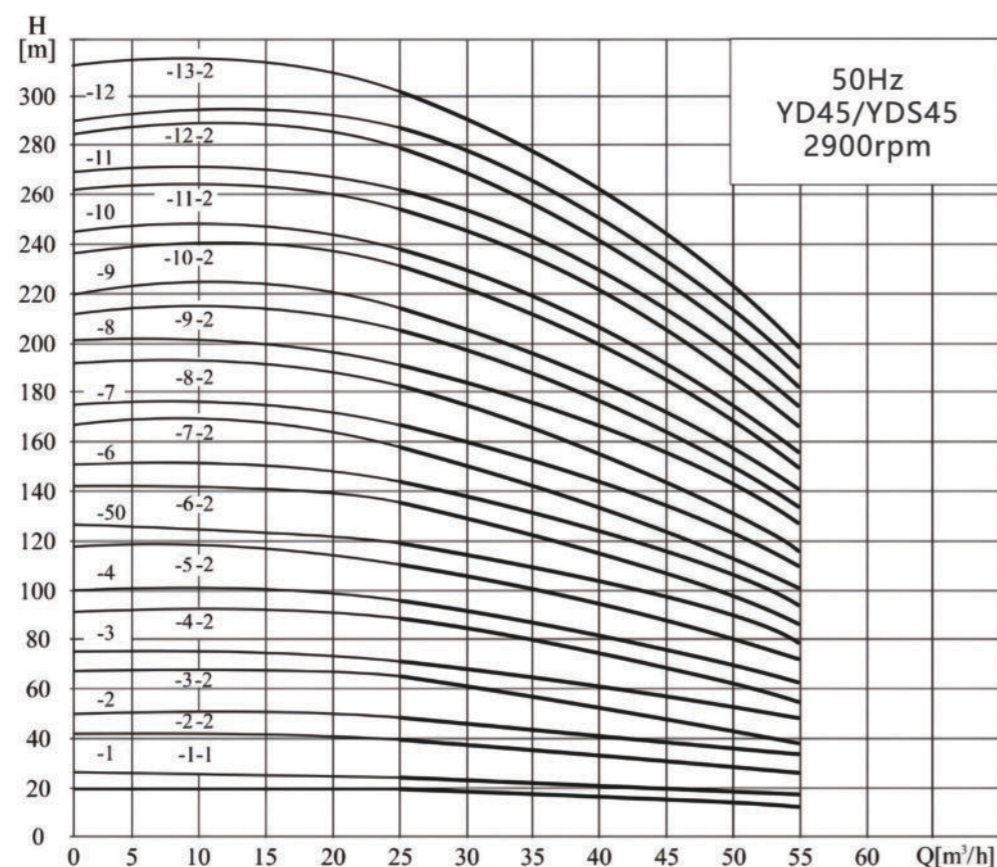
Model	Size(mm)					weight (kg)
	B1	B2	B1+B2	D1	D2	
YD32-1-1/YD32-1	505	290	795	190	155	64/68
YD32-2-2/YD32-2	575	345/355	920/930	197/230	165/180	77/85
YD32-3-2/YD32-3	645	390	1035	260	208	100
YD32-4-2/YD32-4	715	390	1105	260	208	109
YD32-5-2/YD32-5	785	390	1175	260	208	125
YD32-6-2/YD32-6	960	500	1460	330	255	185
YD32-7-2/YD32-7	1030	500	1530	330	255	199
YD32-8-2/YD32-8	1100	500	1600	330	255	203
YD32-9-2/YD32-9	1170	550	1720	330	255	222
YD32-10-2/YD32-10	1240	550	1790	330	255	227
YD32-11-2/YD32-11	1310	575	1885	360	285	272
YD32-12-2/YD32-12	1380	575	1955	360	285	276
YD32-13-2/YD32-13	1450	575	2025	360	285	293
YD32-14-2/YD32-14	1520	575/650	2095/2170	360/400	285/310	298/341
YD32-15-2/YD32-15	1590	650	2240	400	310	345
YD32-16-2/YD32-16	1660	650	2310	400	310	350

Performance Table

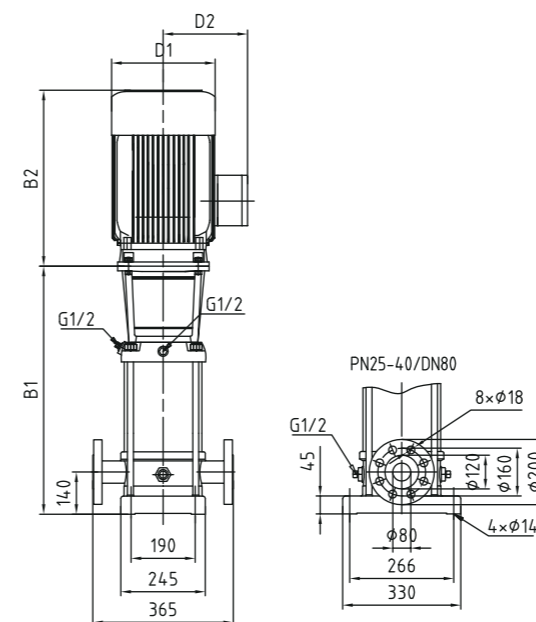
Model	Equipped with a motor (kW)	Q (m³/h)	Q (m³/h)							Model	Equipped with a motor (kW)	Q (m³/h)	Q (m³/h)						
			16	20	24	28	32	36	40				16	20	24	28	32	36	40
YD32-1-1	1.5	H	14	13	12	11	9	7	4	YD32-9-2	18.5	H	154	148	140	129	117	102	82
YD32-1	2.2	(m)	18	17	15	14	13	11	8	YD32-9	18.5	(m)	162	156	147	136	124	109	88
YD32-2-2	3		29	28	26	23	20	16	11	YD32-10-2	18.5		175	166	157	146	131	115	91
YD32-2	4		36	34	32	29	27	23	18	YD32-10	18.5		182	173	164	152	138	122	98
YD32-3-2	5.5		47	44	41	38	33	28	21	YD32-11-2	22		193	184	173	164	146	128	102
YD32-3	5.5		54	51	48	44	40	35	27	YD32-11	22		200	191	180	168	153	135	109
YD32-4-2	7.5		65	62	58	53	46	40	30	YD32-12-2	22		211	201	189	178	160	140	113
YD32-4	7.5		72	69	65	59	53	47	37	YD32-12	22		218	208	196	184	167	147	120
YD32-5-2	11		83	79	74	68	60	52	41	YD32-13-2	30		230	218	206	193	174	153	124
YD32-5	11		90	86	81	74	67	59	47	YD32-13	30		237	225	213	200	181	160	131
YD32-6-2	11		101	97	90	83	74	65	51	YD32-14-2	30		247	235	222	210	189	165	135
YD32-6	11		108	104	97	90	81	72	57	YD32-14	30		255	242	229	216	196	172	142
YD32-7-2	15		119	114	107	98	88	78	60	YD32-15-2	30		266	253	239	224	203	178	145
YD32-7	15		126	121	113	105	95	85	67	YD32-15	30		274	260	246	231	210	185	152
YD32-8-2	15		136	131	123	114	102	90	71	YD32-16-2	30		284	270	255	240	218	190	156
YD32-8	15		144	138	130	120	109	97	77	YD32-16	30		292	277	262	246	225	197	163

Single-phase motor, Explosion proof motor dimensions have changed, please consult the company for details.

Performance curve



Installation drawing



Size and weight

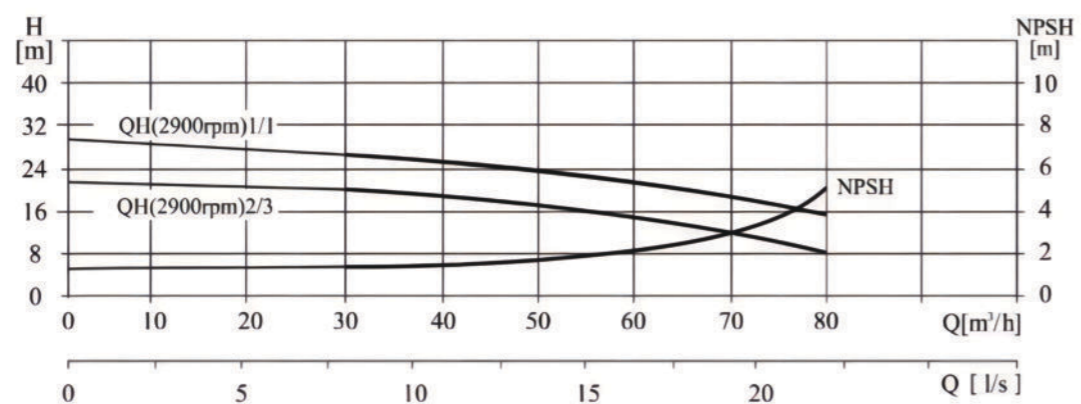
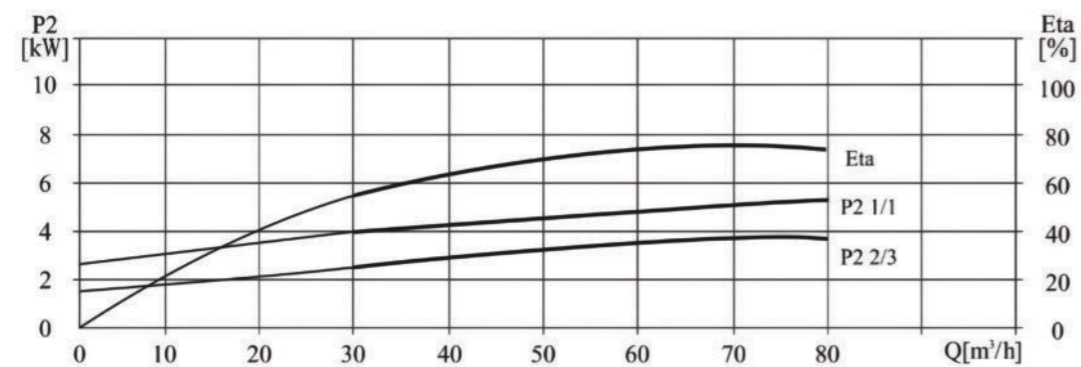
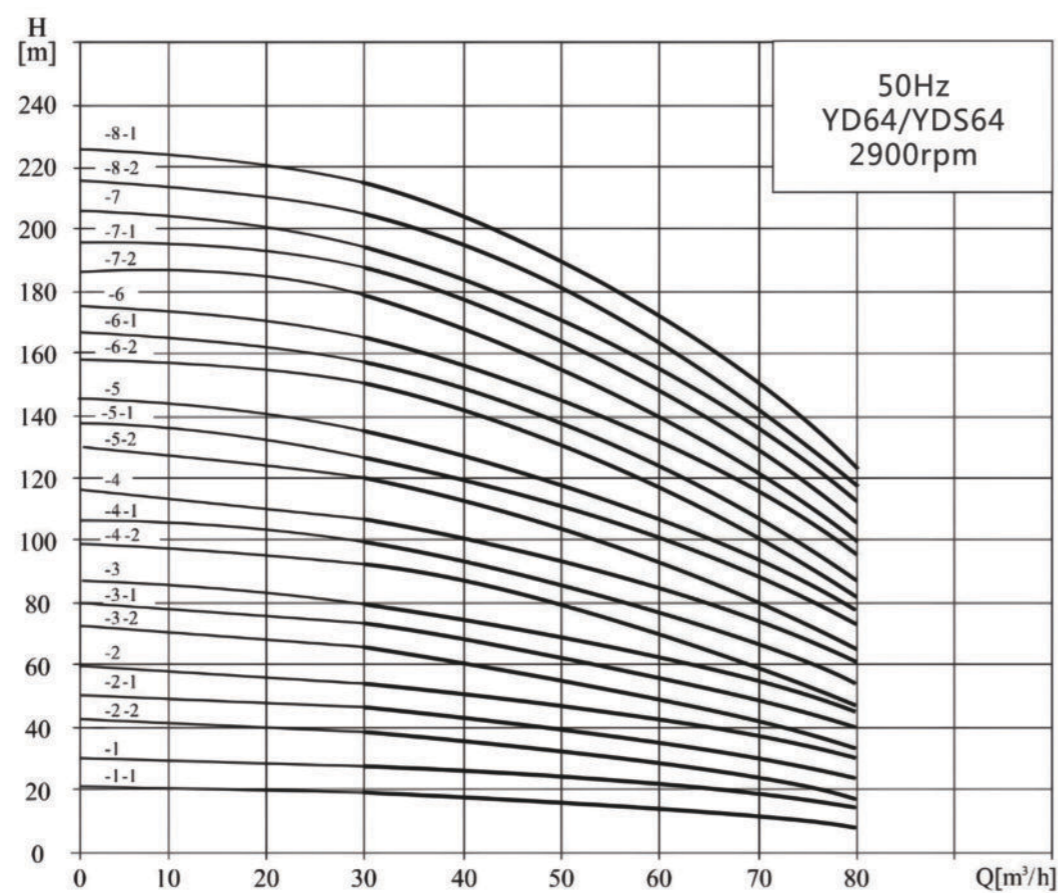
Model	Size(mm)					weight (kg)
	B1	B2	B1+B2	D1	D2	
YD45-1-1	561	345/355	906/916	197/230	165/188	83/90
YD45-1						
YD45-2-2	641	390	1031	260	208	105/110
YD45-2						
YD45-3-2	721/826	390/500	1111/1326	260/330	208/255	127/183
YD45-3						
YD45-4-2	906	500	1406	330	255	197
YD45-4						
YD45-5-2	986	550	1536	330	255	221
YD45-5						
YD45-6-2	1066	575	1641	360	285	261
YD45-6						
YD45-7-2	1146	575	1721	360	285	288
YD45-7						
YD45-8-2	1226	650	1876	400	310	324
YD45-8						
YD45-9-2	1306	650	1956	400	310	328/352
YD45-9						
YD45-10-2	1386	650	2036	400	310	355
YD45-10						
YD45-11-2	1466	685	2151	450	345	426
YD45-11						
YD45-12-2	1546	685	2231	450	345	432
YD45-12						
YD45-13-2	1626	685	2311	450	345	438

Performance Table

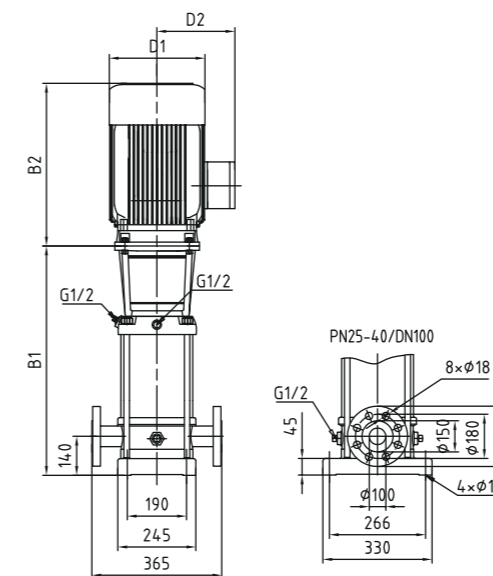
Model	Equipped with a motor (kW)	Q (m³/h)	H (m)							
			25	30	35	40	45	50	55	
YD45-1-1	3	20	19	18	17	15	13	11		
YD45-1	4	24	23	22	21	19	18	16		
YD45-2-2	5.5	40	38	36	33	30	27	23		
YD45-2	7.5	48	46	44	42	39	35	31		
YD45-3-2	11	63	61	58	54	50	44	38		
YD45-3	11	71	69	66	63	58	53	47		
YD45-4-2	15	87	84	80	75	69	62	54		
YD45-4	15	95	92	88	84	78	71	62		
YD45-5-2	18.5	111	107	102	96	88	80	69		
YD45-5	18.5	119	115	110	105	97	88	78		
YD45-6-2	22	135	130	124	117	108	97	85		
YD45-6	22	143	138	132	125	116	106	93		
YD45-7-2	30	158	152	146	138	127	115	100		
YD45-7	30	166	161	154	146	135	124	109		
YD45-8-2	30	182	175	168	159	146	133	116		
YD45-8	30	190	184	176	167	154	141	124		
YD45-9-2	30	205	198	190	180	166	150	132		
YD45-9	37	214	207	198	188	174	159	140		
YD45-10-2	37	230	221	212	200	185	168	147		
YD45-10	37	238	230	220	209	193	177	155		
YD45-11-2	45	255	246	236	223	206	188	165		
YD45-11	45	263	255	244	232	214	196	173		
YD45-12-2	45	280	270	259	245	226	206	181		
YD45-12	45	289	280	268	255	236	216	190		
YD45-13-2	45	305	294	282	267	247	225	198		

Explosion proof motor dimensions have changed, please consult the company for details.

Performance curve



Installation drawing



Size and weight

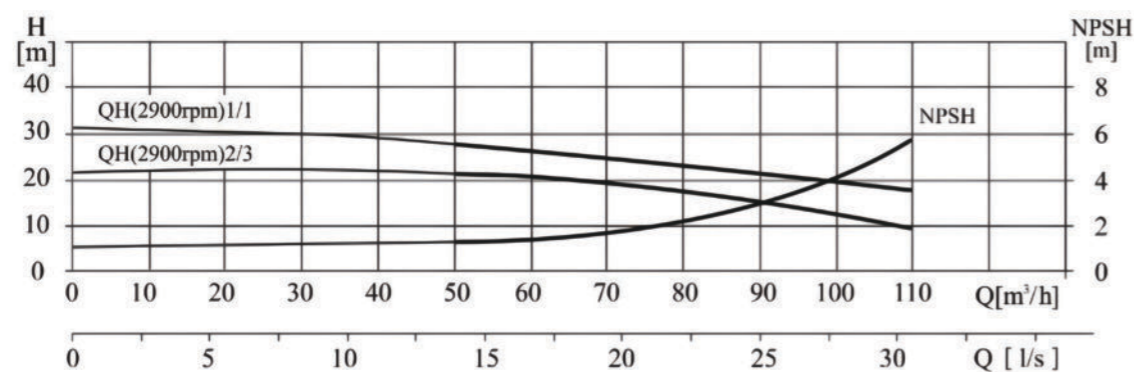
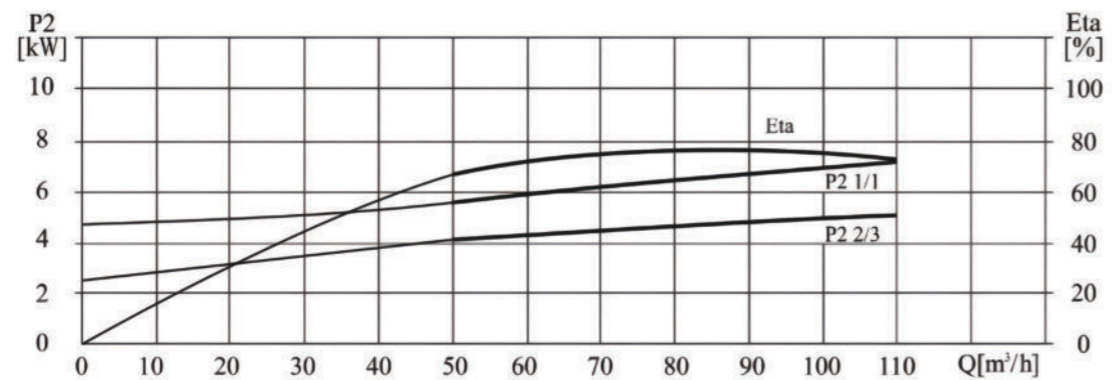
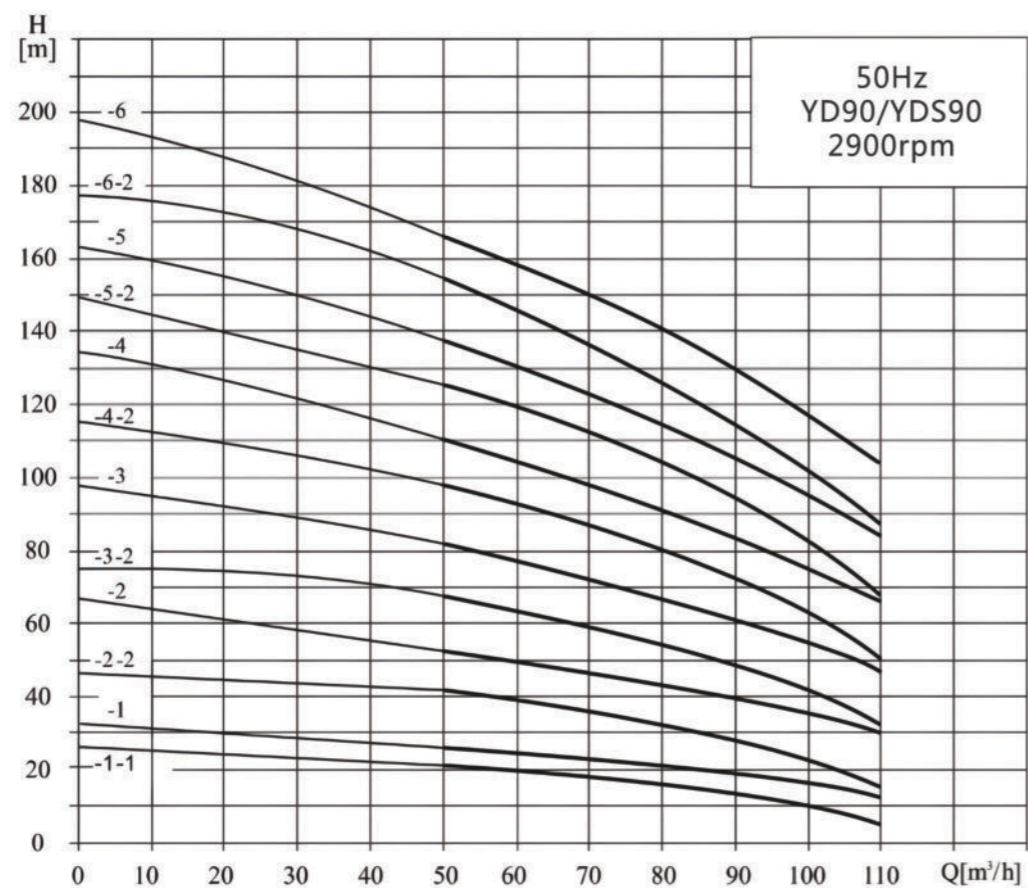
Model	Size(mm)					weight (kg)
	B1	B2	B1+B2	D1	D2	
YD64-1-1	561	355	916	230	158	93
YD64-1	561	390	951	260	208	105
YD64-2-2	644	390	1034	260	208	110
YD64-2-1	754	500	1254	330	255	182
YD64-2	754	500	1254	330	255	182
YD64-3-2	836	500	1336	330	255	196
YD64-3-1	836	500	1336	330	255	197
YD64-3	836	550	1386	330	255	221
YD64-4-2	919	550	1469	330	255	225
YD64-4-1	919	575	1494	360	285	258
YD64-4	919	575	1494	360	285	258
YD64-5-2	1001	575	1576	360	285	276
YD64-5-1	1001	575	1576	360	285	276
YD64-5	1001	650	1651	400	310	320
YD64-6-2	1084	650	1734	400	310	325
YD64-6-1	1084	650	1734	400	310	349
YD64-6	1084	650	1734	400	310	349
YD64-7-2	1166	650	1816	400	310	353
YD64-7-1	1166	650	1816	400	310	353
YD64-7	1166	685	1851	460	340	420
YD64-8-2	1248	685	1933	460	340	424
YD64-8-1	1248	685	1933	460	340	424

Performance Table

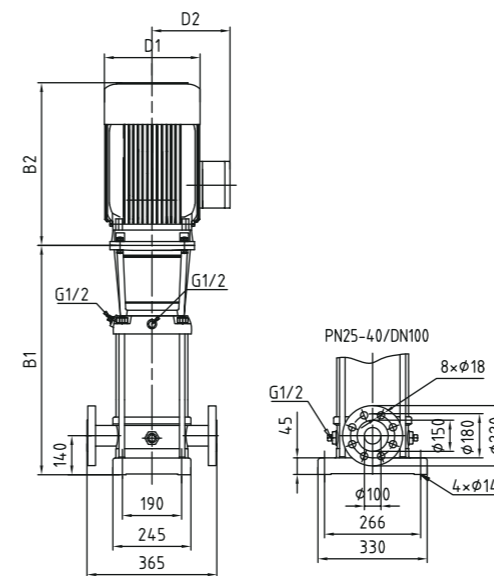
Model	Equipped with a motor (kW)	Q (m³/h)	H (m)							
			30	40	50	60	64	70	80	
YD64-1-1	4		19	18	16	14	13	11	8	
YD64-1	5.5		27	25	23	21	20	18	15	
YD64-2-2	7.5		39	36	33	29	27	23	17	
YD64-2-1	11		46	44	40	36	34	30	24	
YD64-2	11		53	51	47	43	41	37	30	
YD64-3-2	15		66	62	56	50	47	41	32	
YD64-3-1	15		73	69	63	57	54	48	39	
YD64-3	18.5		80	76	70	64	61	55	46	
YD64-4-2	18.5		92	87	80	71	67	60	47	
YD64-4-1	22		100	94	87	78	74	67	54	
YD64-4	22		107	101	94	85	81	74	61	
YD64-5-2	30		121	114	105	95	89	80	64	
YD64-5-1	30		128	121	112	102	96	87	71	
YD64-5	30		136	129	119	109	103	94	78	
YD64-6-2	30		150	142	131	118	111	101	81	
YD64-6-1	37		157	149	138	125	118	108	88	
YD64-6	37		164	156	145	132	125	115	95	
YD64-7-2	37		179	169	156	141	133	121	99	
YD64-7-1	37		186	176	163	148	141	128	106	
YD64-7	45		193	183	170	155	148	135	112	
YD64-8-2	45		207	196	182	164	156	142	116	
YD64-8-1	45		215	203	189	171	163	149	123	

Explosion proof motor dimensions have changed, please consult the company for details.

Performance curve



Installation drawing



Size and weight

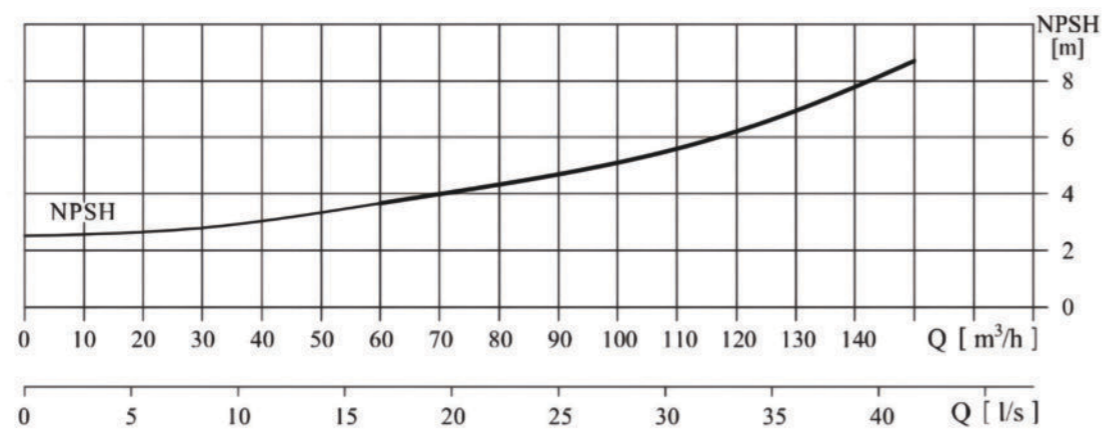
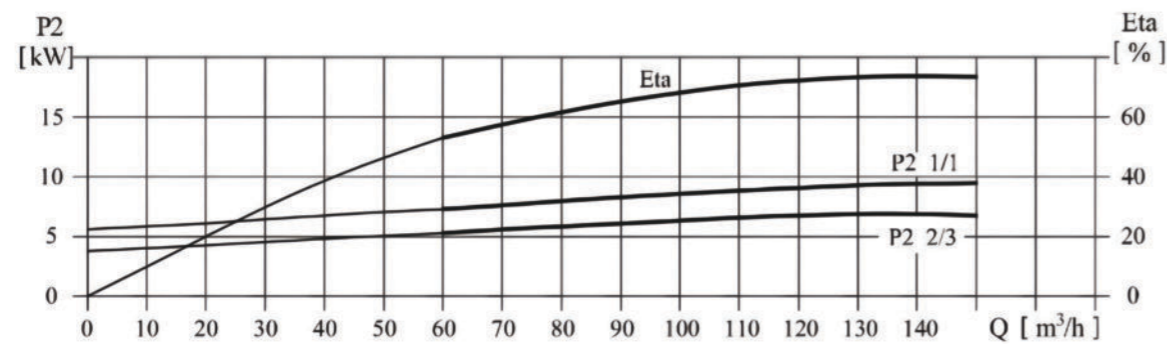
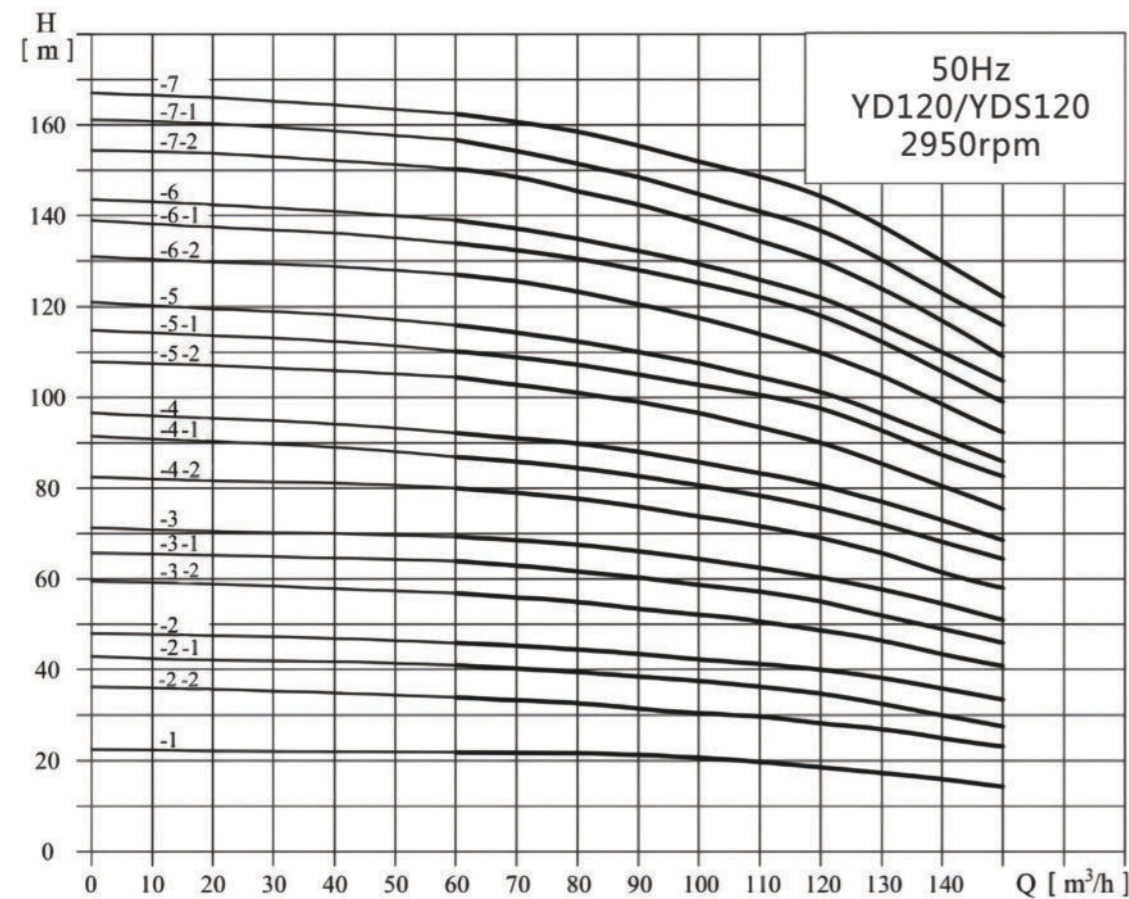
Model	Size(mm)					weight (kg)
	B1	B2	B1+B2	D1	D2	
YD90-1-1	571	390	961	260	208	105
YD90-1	571	390	961	260	208	110
YD90-2-2	773	500	1273	330	255	181
YD90-2	773	500	1273	330	255	192
YD90-3-2	865	550	1415	330	255	215
YD90-3	865	575	1440	360	285	252
YD90-4-2	957	575	1532	360	285	271
YD90-4	957	650	1607	400	310	312
YD90-5-2	1049	650	1699	400	310	336
YD90-5	1049	650	1699	400	310	336
YD90-6-2	1141	685	1826	460	340	407
YD90-6	1141	685	1826	460	340	407

Performance Table

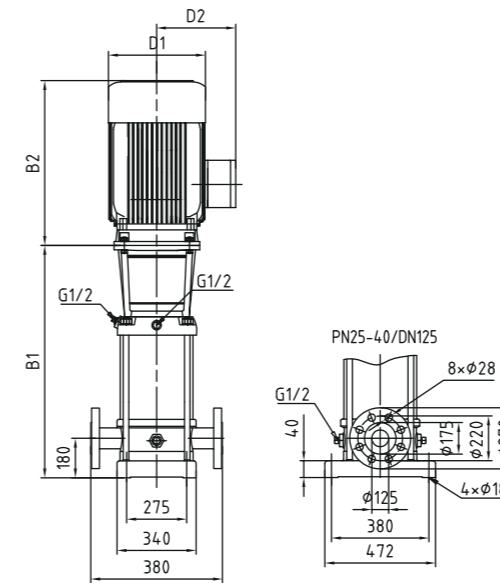
Model	Equipped with a motor (kW)	Q (m³/h)	50	60	70	80	90	100	110
YD90-1-1	5.5		H (m)	22	19	17	16	13	10
YD90-1	7.5	25		24	22	21	19	16	12
YD90-2-2	11	41		39	36	32	28	22	15
YD90-2	15	53		50	47	44	40	36	30
YD90-3-2	18.5	68		65	60	55	49	41	32
YD90-3	22	81		77	72	67	62	55	48
YD90-4-2	30	98		93	87	80	72	62	50
YD90-4	30	110		105	100	92	84	76	66
YD90-5-2	37	126		120	113	104	93	81	68
YD90-5	37	139		131	124	115	106	94	83
YD90-6-2	45	155		148	139	129	117	102	86
YD90-6	45	168		160	150	141	130	117	103

Explosion proof motor dimensions have changed, please consult the company for details.

Performance curve



Installation drawing



Size and weight

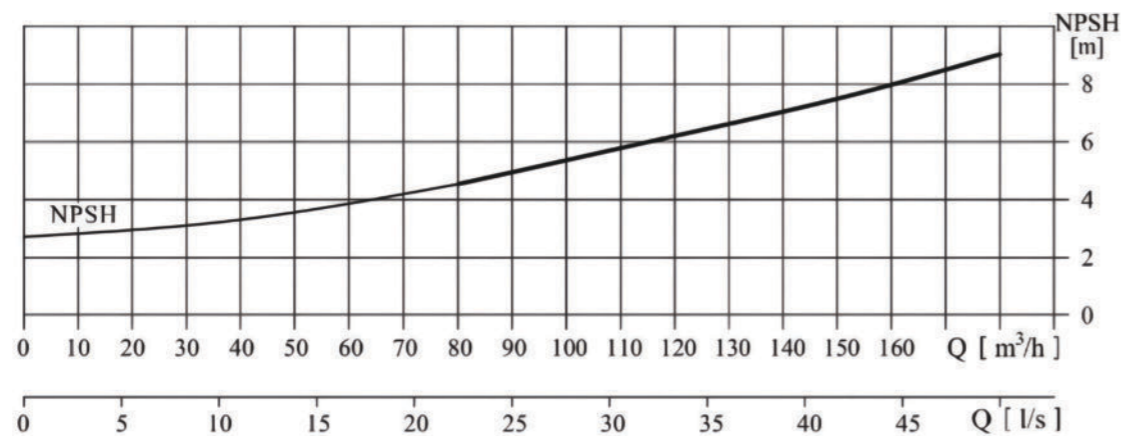
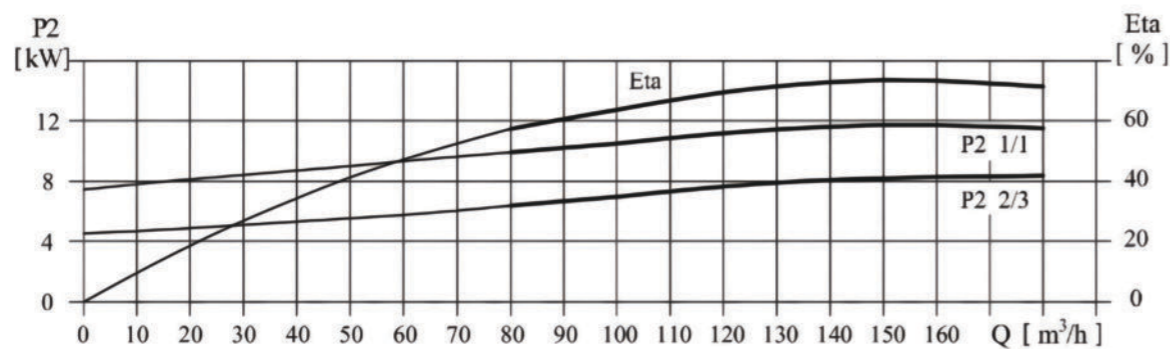
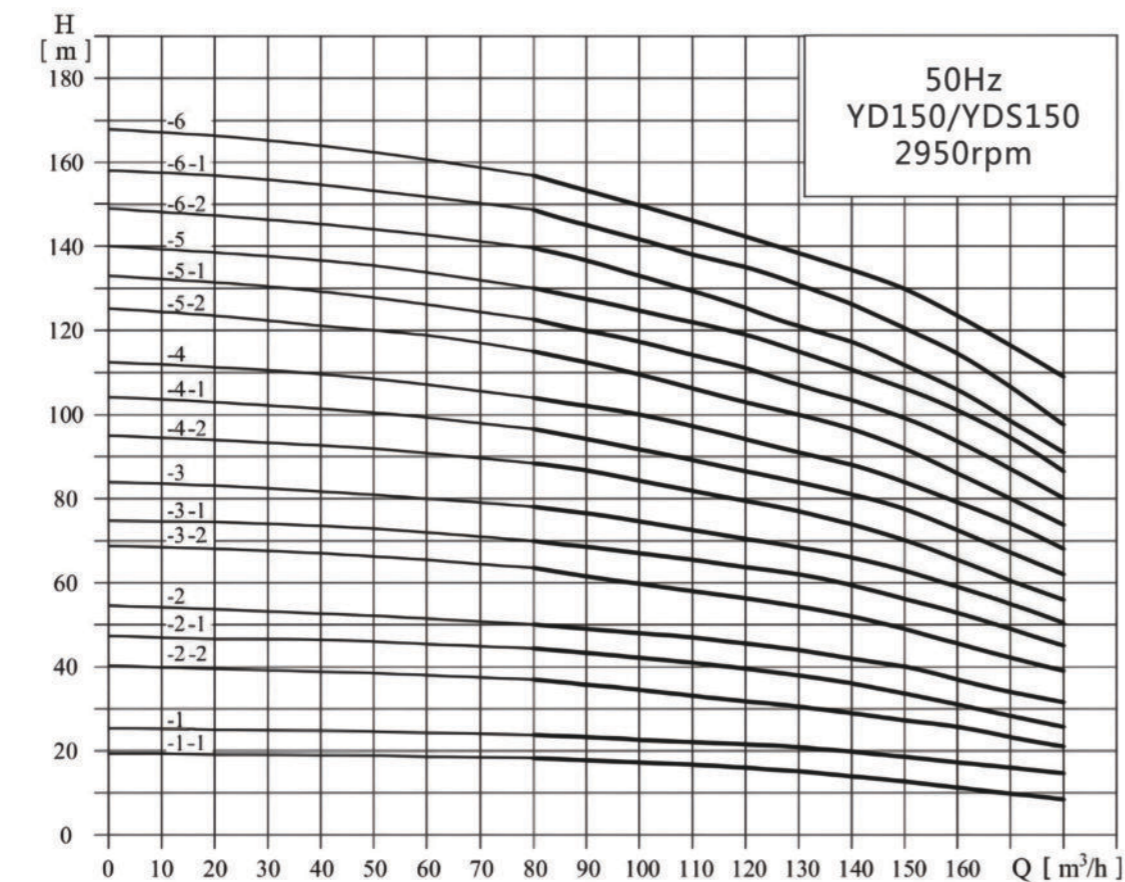
Model	Size(mm)					weight (kg)
	B1	B2	B1+B2	D1	D2	
YD120-1	840	500	1340	330	255	230
YD120-2-2	1000	500	1500	330	255	245
YD120-2-1	1000	550	1550	330	255	250
YD120-2	1000	575	1575	360	285	285
YD120-3-2	1160	575	1735	360	285	326
YD120-3-1	1160	650	1810	400	310	360
YD120-3	1160	650	1810	400	310	360
YD120-4-2	1320	650	1970	400	310	400
YD120-4-1	1320	650	1970	400	310	400
YD120-4	1320	685	2005	460	340	460
YD120-5-2	1480	685	2165	460	340	470
YD120-5-1	1480	685	2165	460	340	470
YD120-5	1510	760	2270	540	370	575
YD120-6-2	1670	760	2430	540	370	585
YD120-6-1	1670	760	2430	540	370	585
YD120-6	1830	845	2515	580	410	705
YD120-7-2	1830	845	2675	580	410	715
YD120-7-1	1830	845	2675	580	410	715
YD120-7	1830	845	2675	580	410	715

Performance Table

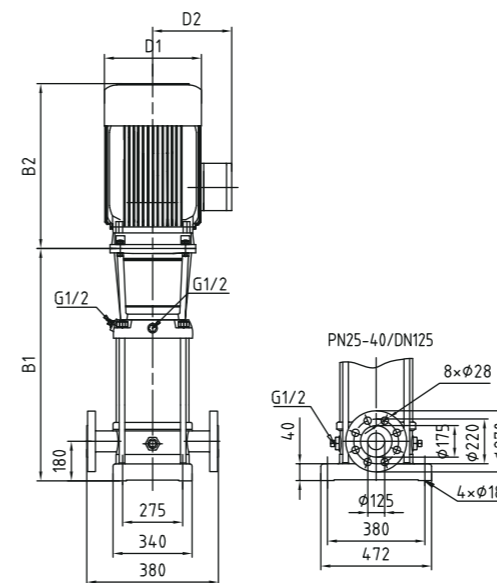
Model	Equipped with a motor (kW)	Q (m³/h)	H (m)														
			60	70	80	90	100	110	120	130	140	150					
YD120-1	11	22	21.8	21.6	21	20.5	19.5	18.5	17	16	15						
YDL120-2-2	15	34	33.6	33	31	30.2	30	28.5	27	25	24						
YD120-2-1	18.5	41	40	39.5	38.5	37	36.5	34.5	32.5	30	27.5						
YD120-2	22	46	45	44.5	43.5	42.4	41	40	38	36	33.5						
YD120-3-2	30	57	56	55	53.5	52	51	49	46.5	43.5	41						
YD120-3-1	30	64	63	62	60	58.5	57.5	55.5	52	49	46						
YD120-3	30	69.5	68.5	67.5	66	64.4	62.5	61	57.5	54.5	51						
YD120-4-2	37	80.5	79	78	76	73.5	72	69	66	61.5	58						
YD120-4-1	37	87	86	84.5	82	80	78	76	72	68	64.5						
YD120-4	45	92.5	91	90	88	85.5	83	81	77	73	68.5						
YD120-5-2	45	104.5	103	101	99	96	93	90	85.5	80.5	75.5						
YD120-5-1	45	110.5	109	107.5	105	102	100	97	92	86.5	83						
YD120-5	55	115.5	114	113	110	107.5	104.5	101.5	96	91	86						
YD120-6-2	55	128	125.5	123	121	117.3	113.5	110	104.5	98.5	92.5						
YD120-6-1	55	134	132	130.5	127	124	121	118	111	105	100						
YD120-6	75	139	137	135	132	128.8	126	123	116	110	104						
YD120-7-2	75	151	148	145.5	143	138.6	134	130	123.5	116.5	109						
YD120-7-1	75	156.5	154	152	148.5	144.5	141	137.5	130	123	116.5						
YD120-7	75	162.5	160.5	158.5	155	151	148	145	137	129	123						

Explosion proof motor dimensions have changed, please consult the company for details.

Performance curve



Installation drawing



Size and weight

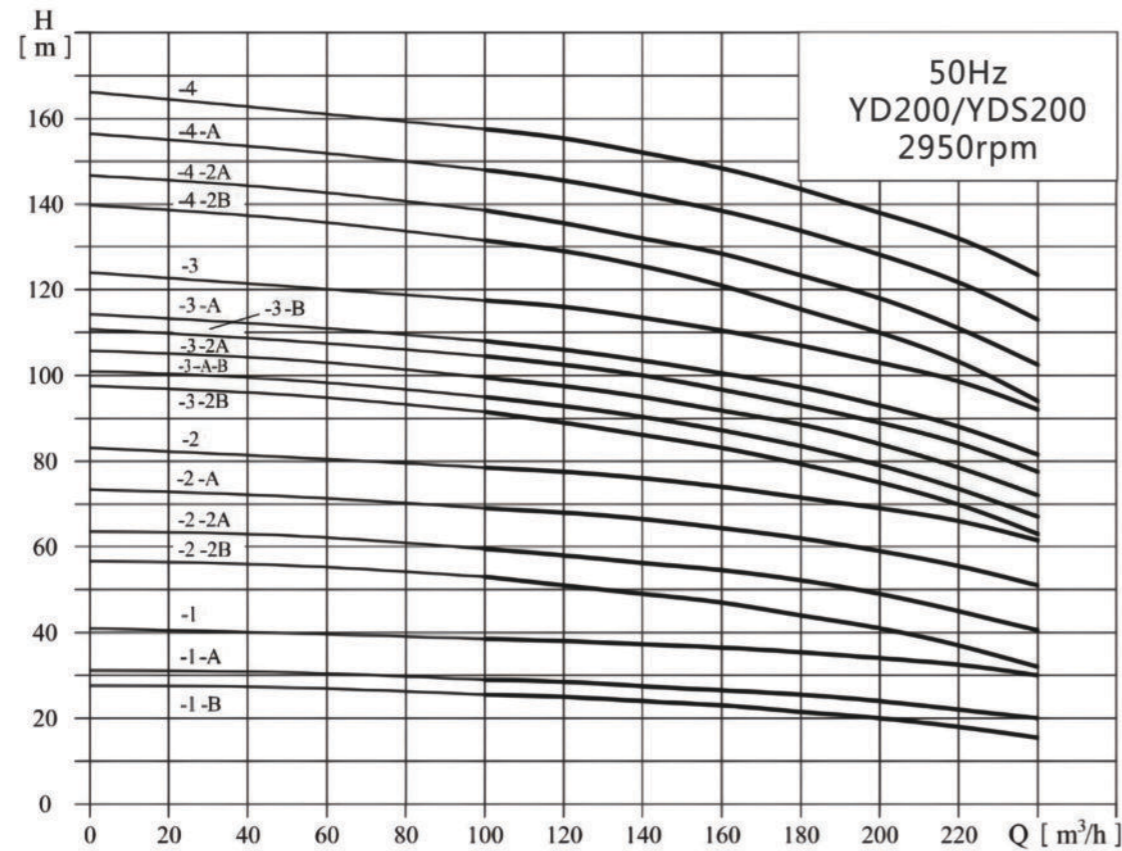
Model	Size(mm)					weight (kg)
	B1	B2	B1+B2	D1	D2	
YD150-1-1	840	500	1340	330	255	230
YD150-1	840	500	1340	330	255	235
YD150-2-2	1000	550	1550	330	255	250
YD150-2-1	1000	575	1575	360	285	295
YD150-2	1000	575	1575	360	285	317
YD150-3-2	1160	650	1810	400	310	360
YD150-3-1	1160	650	1810	400	310	360
YD150-3	1160	650	1810	400	310	385
YD150-4-2	1320	685	2005	460	340	460
YD150-4-1	1320	685	2005	460	340	460
YD150-4	1350	760	2110	540	370	560
YD150-5-2	1510	760	2270	540	370	570
YD150-5-1	1510	845	2355	580	410	690
YD150-5	1510	845	2355	580	410	690
YD150-6-2	1670	845	2515	580	410	700
YD150-6-1	1670	845	2515	580	410	700
YD150-6	1670	845	2515	580	410	700

Performance Table

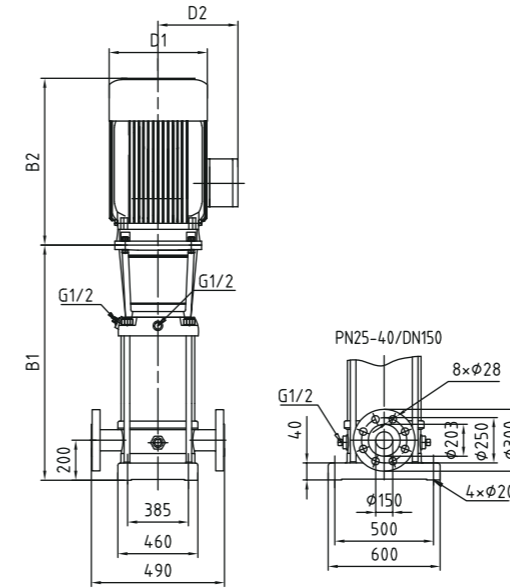
Model	Equipped with a motor(kW)	Q (m³/h)	H (m)											
			80	90	100	110	120	130	140	150	160	170	180	
YD150-1-1	11		18.3	17.8	17.3	17	16	15	14	12.5	11	10	8.5	
YD150-1	15		24	23	22.5	22	21.5	20.5	20	18.5	17	16	15	
YD150-2-2	18.5		37	35.5	34	33	32	31	29	27.5	26	23	21	
YD150-2-1	22		44.3	43	42	40	39	38.5	37.5	35	33	30	27	
YD150-2	30		50	49	48	47	45.5	44	42	40	37	34	32	
YD150-3-2	30		63.5	61	59	57.5	56	54.5	53	49	45.5	42	39	
YD150-3-1	37		70	68	67	65	63	62	60	56	53	49	45	
YD150-3	37		78	76.5	75	73	70.5	68	66	63	59	55	50.5	
YD150-4-2	45		89	87	84	81.5	79	77	74.5	70.5	65.5	60	56	
YD150-4-1	45		96.5	94	91.5	89	86.5	84	81.5	77	72.5	67	62	
YD150-4	55		104	102	100	97	95	91	88	84	79.5	74	68	
YD150-5-2	55		115.5	112	109	106	102.5	100	97	92	86	79	73.5	
YD150-5-1	75		122.5	119.5	117	113.5	111.5	107.5	104.5	99	93.5	87	80	
YD150-5	75		130	127.5	125	121	119	115	111.5	106.5	101	94.5	86.5	
YD150-6-2	75		140	137	133	130	126	121	118	112	106	98	91	
YD150-6-1	75		148.5	145	141.7	137.5	135	131	127	120.5	114.5	106.5	97.5	
YD150-6	75		157	153	149	145	142	139.5	137	130	123.5	116	109	

Explosion proof motor dimensions have changed, please consult the company for details.

Performance curve

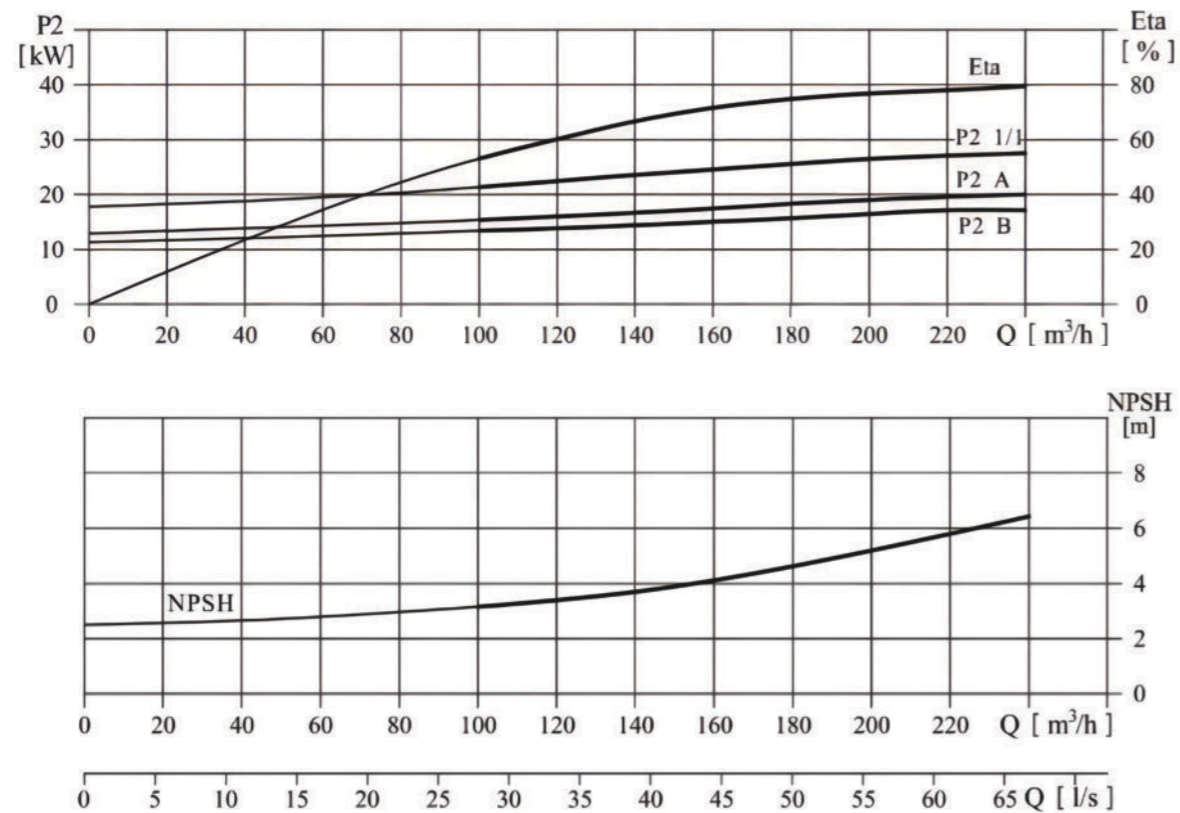


Installation drawing



Size and weight

Model	Size (mm)					weight (kg)
	B1	B2	B1+B2	D1	D2	
YD200-1-B	907	550	1457	330	255	311
YD200-1-A	907	575	1482	360	285	347
YD200-1	907	650	1557	400	310	403
YD200-2-2B	1101	650	1751	400	310	447
YD200-2-2A	1101	685	1786	460	340	504
YD200-2-A	1131	760	1891	540	370	595
YD200-2	1131	760	1891	540	370	595
YD200-3-2B	1325	845	2170	580	410	748
YD200-3-A-B	1325	845	2170	580	410	748
YD200-3-2A	1325	845	2170	580	410	748
YD200-3-A	1325	845	2170	580	410	748
YD200-3	1325	895	2220	580	410	817
YD200-4-2B	1519	895	2414	580	410	830
YD200-4-2A	1519	1140	2659	645	550	1180
YD200-4-A	1519	1140	2659	645	550	1180
YD200-4	1519	1140	2659	645	550	1180



Performance Table

Model	Equipped with a motor (kW)	Q (m³/h)	H (m)									
			100	120	140	160	180	200	220	240		
YD200-1-B	18.5		25.5	25	24	23	21.5	20	18	15.5		
YD200-1-A	22		29	28.5	27.5	26.5	25.5	24	22	20		
YD200-1	30		38.5	38	37.5	36.5	35	34	32.5	30		
YD200-2-2B	37		53	51	49	47	44	41	37	32		
YD200-2-2A	45		59.5	58	56	54	52.5	49	44.5	40.5		
YD200-2-A	55		69	68	66	64	62	59	55.5	51		
YD200-2	55		78.5	77.5	76	74	71.5	69	66	61.5		
YD200-3-2B	75		91.5	89	86.5	83.5	79	75	70	63		
YD200-3-A-B	75		95	93	90	87	83.5	79	73.5	67		
YD200-3-2A	75		99.5	97.5	94.5	91.5	89	84	78.5	72		
YD200-3-B	75		104.5	102.5	100	97	93	89	84.5	77.5		
YD200-3-A	75		108	106	103.5	100.5	97.5	93	88	81.5		
YD200-3	90		117.5	116	113.5	110.5	107	103	99	92		
YD200-4-2B	90		131.5	129	125.5	121	115.5	110	103.5	94		
YD200-4-2A	110		138.5	136	132	128	124	118	111	102.5		
YD200-4-A	110		148	145.5	142.5	138	134	128	122	113		
YD200-4	110		157.5	155.5	152.5	148	143.5	138	132.5	123.5		

Explosion proof motor dimensions have changed, please consult the company for details.

Installation instructions

1. Before installation, check whether the fasteners of the unit are loose, and whether the flow channel of the pump body is blocked with foreign matter, so as to avoid damage to the impeller and pump body when the pump is running.
2. The weight of the pipeline should not be added to the pump during installation, so as not to deform the pump.
3. The anchor bolt must be tightened during installation to avoid the impact of vibration on pump performance when starting.
4. In order to facilitate maintenance and safe use, install a regulating valve on the inlet and outlet pipe of the pump and install a pressure gauge near the pump outlet to ensure the rated head and flow range operation, to ensure the normal operation of the pump, increase the service life of the pump.
5. After installation, move the pump shaft, the impeller should be frictionless or stuck, otherwise the pump should be opened to check the cause.
6. The installation of the pump is divided into hard connection and flexible connection.

Pump maintenance

(一) Maintenance during operation

1. The import pipeline must be filled with liquid, and the pump is prohibited from long-term operation in the state of cavitation.
2. Check the motor current value regularly, shall not exceed the rated current of the motor.
3. After long-term operation of the pump, due to mechanical wear, so that the unit noise and vibration increase, should be stopped for inspection, if necessary to replace the wearing parts, the unit overhaul period is generally one year.

(二) Mechanical seal maintenance

1. mechanical seal lubrication should be clean without solid particles.
2. It is strictly prohibited for mechanical seals to work under dry grinding.
3. the pump (motor) should be driven a few laps before starting, so as to avoid sudden start caused by graphite ring fracture damage.
4. sealing leakage tolerance 3 drops/min, otherwise it should be repaired.

Start and Stop

(一) Preparation before starting

1. By hand to turn the motor blade, the impeller should be no card grinding phenomenon, rotation flexibility.
2. Open the inlet valve, open the exhaust valve to fill the entire pump chamber with liquid, and then close the exhaust valve.
3. Move the pump by hand to make the lubricating fluid enter the surface of the mechanical seal.
4. Point the motor to determine whether the rotate direction is correct.

(二) Starting and running

1. Fully open the inlet valve and close the discharge pipe valve.
2. Turn on the power, when the pump reaches the normal speed, then gradually open the valve on the spit pipe, and adjust to the required condition.
3. Pay attention to observe the instrument reading, check the shaft seal leakage, normal time
Mechanical seal leakage <3 drops/min, check the motor, bearing temperature rise W70°C, if found abnormal, should be handled in time.

(三) Stop

1. Gradually close the discharge pipe valve and cut off the power supply.
2. Close the inlet valve.
3. If the ambient temperature is below 0 ° C, the liquid in the pump should be drained to avoid freezing and cracking.
4. If long-term stoped, should disassemble the pump cleaning, packaging storage.

Fault caused and troubleshooting methods

Problems	Possible reasons	Trouble shooting
1.No water out	a.The import and export valve is not opened, and the inlet and outlet pipeline is blocked.The impeller channel is blocked. b.The motor is running in the wrong direction, and the motor is slow in phase absence. c.Air leakage in suction tube. d.The pump is not filled with liquid, and there is air in the pump chamber. e.Insufficient import water supply, high suction range, bottom valve leakage. f.Pipeline resistance is too large, improper pump selection.	a. Check and remove the blockage. b. Adjust the motor direction and tighten the motor wiring. c. Tighten each sealing surface to remove air. d. Open the pump cover or open the exhaust valve to exhaust the air. e. Stop the machine for inspection and adjustment. f. Reduce pipe bends and re-select the pump.
2. Insufficient pump flow	a. Check fault symptom 1 Cause. b. The flow channel of the pipeline and pump impeller is partially blocked, and the scale is deposited Insufficient valve opening. c. The voltage is low. d. Impeller wear.	a. Troubleshoot the fault according to Symptom 1. b. Remove the blockage and adjust the valve opening. c. Stabilize the voltage. d. Replace the impeller.
3.Over power	a. Exceed the rated flow. b. The suction range is too high. c. Pump bearing wear.	a. Adjust the flow rate and turn off the outlet valve. b. Reduce suction. c. Replace the bearing.
4. Noise and Vibration	a. Pipe support is unstable. b. Liquid mixed with gas. c. Cavitation occurs. d. Bearing damage. e. Motor overload heating operation.	a. Secure pipes. b. Increase suction pressure and exhaust. c. Reduce the vacuum degree. d. Replace the bearing. e. Rectify the fault according to Symptom 5.
5. Motor heated	a. Excessive flow, overload operation. b. Rub. c. Motor bearing damage. d. Insufficient voltage.	a. Close little of the outlet valve. b. Check for exclusion. C. Replace the bearing. d. Voltage regulation.
6. Pump water leakage	a. Mechanical seal wear. b The pump body has sand holes or is broken. c. The sealing surface is uneven. d. Mounting bolts are loose.	a. Replace. b. Welding repair or replacement. C. Trim. d. Tighten.