

Verson: E260305W

Subject to alterations.

澳升. Chinese green 

AOSHENG PUMPS CO., LTD.

www.aoshengpump.com

400-088-8233



NB / NBF

ULTRA HIGH
EFFICIENT
VERTICAL
MULTISTAGE
CENTRIFUGAL
PUMPS

澳升 . Chinese green



TOWARDS ZERO CARBON BALANCE AND
GREEN TRANSFORMATION
IN TECHNOLOGICAL INNOVATION



ocboom.® Aosheng pumps is a Chinese water pumps company driven by green innovation. Its core competitiveness lies in its focus on pumps and green innovation. Our mission is to provide carbon neutral and Chinese wisdom to the world. Always focus on high efficiency, we gather an authoritative team dedicated to green innovation. With cutting-edge fluid dynamics CFD technology, excellent 30-year process sedimentation and world leading intelligent manufacturing innovation, we provide high-quality, green, and intelligent water pumps and system solutions.

ocboom.® Aosheng pumps is always raising the questions, finding the solutions. From new material to new technology, from hydraulic design to new structure, from hydromechanics to automatic controlling, we are discovering green on combining theory and practice.

Discover ultimate energy saving!

Neu-boom®

NB / NBF

Redefine energy saving pumps!

Neu-booom



NB/NBF ULTRA
HIGH EFFICIENT VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

MEI

Higher MEI
Euro standard product 0.7

0.89

NPSH

Lower NPSH
International first class is 3.66

2.9_m

ENERGY

More energy saving
Higher than industry standard

12.7%

Ultra high efficiency, super energy saving.

The NB/NBF series ultra-efficient multi-stage centrifugal pumps has been designed to be an "ultra-high energy saving" pump since its birth. Inherited the spirit of 30 years excellence, benefited from the "Neu-booom green Innovation power", based on previous experience and data models, by re-definition of the structure of the impellers, guide vanes, water chambers and other parts, optimized hydraulic performance and other key technology innovation, owned precision process and production efficiency from the most advanced smart factory in Asia, all of those advantages makes the Chinese pumps to lead the world in "high energy efficiency" , achieve a more trustworthy NB/NBF.

The performance of NB/NBF is excellent, better than previous pumps, even better than top pumps in the world. With the self-developed high efficient motor, make it higher efficiency, MEI value is 0.89, lower NPSH, which is 2.9m. A single pump can save 145000kW·h in one year. Lower noise, lower vibration, more reliable, easy for maintenance. Significantly reduce running cost and improve profit for customers. Plays more important role in the municipal water supply, boosting for high buildings in the future. Help in converting to green industry and sustainable development.

ocboom.®



Neu-booom®

One pump can save power

145000

kW·h

Neu-boom

Authorized as international benchmark product by
National Ministry of Science and Technology

NB/NBF ULTRA HIGH EFFICIENT VERTICAL
MULTISTAGE CENTRIFUGAL PUMPS

报告编号: 20233302118010

科技查新报告

项目名称: NB系列高效立式多级离心泵

委托人: 澳升泵业(浙江)有限公司

委托日期: 2023年10月17日

查新机构: 浙江省科技信息研究所
(国家一级科技查新机构)

完成日期: 2023年10月17日

中华人民共和国科学技术部
二〇〇〇年制

WE ASSIST YOU BASED ON YOUR INDUSTRY
AND OPERATING CONDITIONS
DESIGN AND OPTIMIZE THE PUMP SYSTEM.

NB/NBF pumps are designed for a variety of applications ranging from the pumping of tap water to the pumping of industrial liquids. The pumps are suitable for a wide diversity of liquid of temperature, flow rate, pressure range. NB is suitable for non corrosive liquid, NBF is suitable for mild corrosive liquid.



Make your system more sustainable!

WATER SUPPLY

Filtration and transfer at waterworks, distribution from waterworks, Pressure boosting in mains, pressure boosting in high-rise buildings

INDUSTRIAL BOOSTING

Process-water systems, washing and cleaning systems, vehicle-washing tunnels, firefighting systems

INDUSTRIAL LIQUID TRANSPORTATION

Cooling and air-conditioning systems (refrigerants), boiler feed and condensate systems, machine tools (cooling lubricants), acids and alkalis

WATER TREATMENT

Ultra-filtration systems, Reverse osmosis systems, distillation systems, separators, Swimming baths

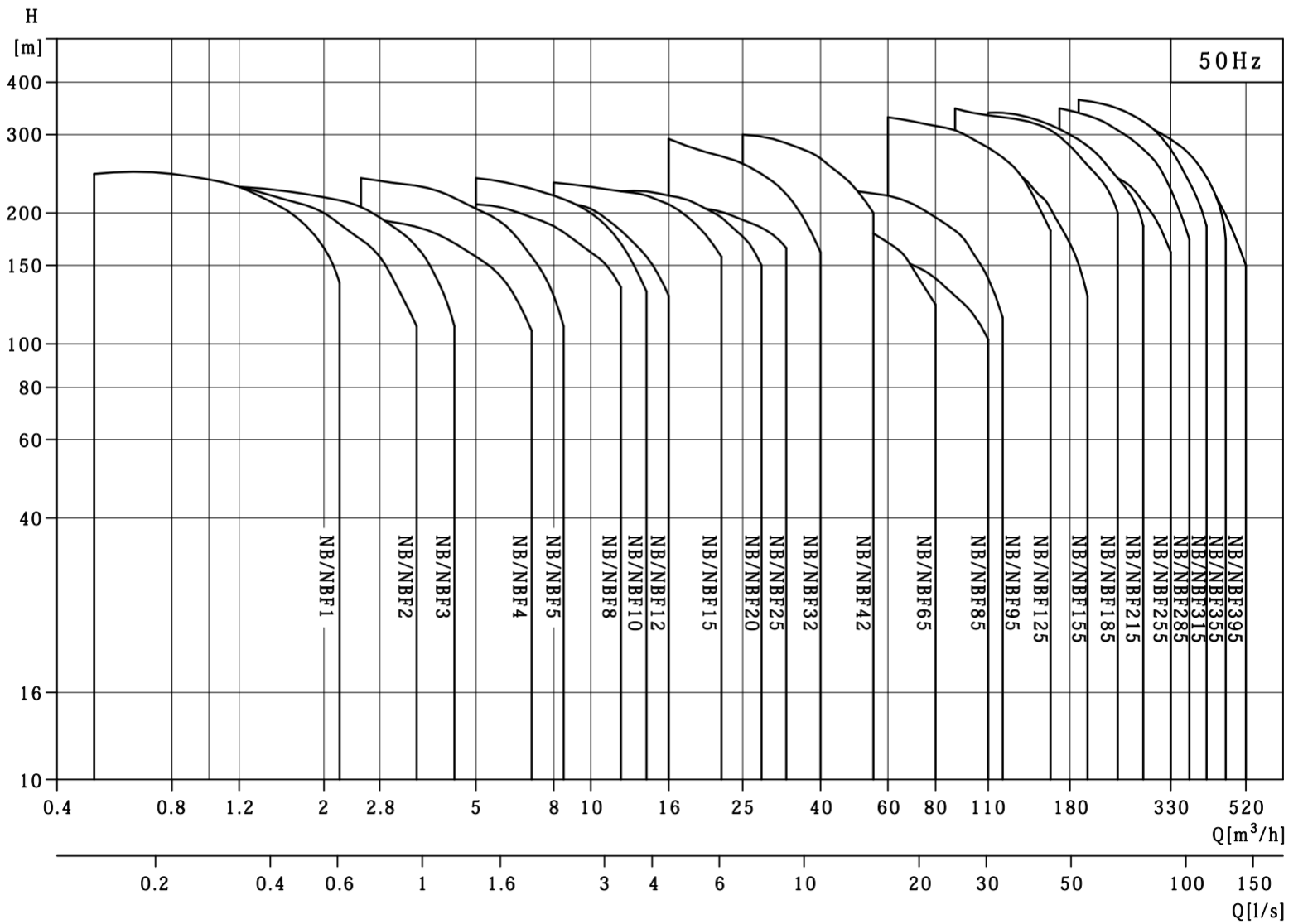
IRRIGATION

Field irrigation, sprinkler irrigation, drip-feed irrigation

NB/NBF

ULTRA EFFICIENT LIGHTWEIGHT
VERTICAL MULTI-STAGE
CENTRIFUGAL PUMP

Performance range



Applications

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Filtration and transfer at waterworks, distribution from waterworks, Pressure boosting in mains, pressure boosting in high-rise buildings

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● WATER TREATMENT

Ultra-filtration systems, Reverse osmosis systems, distillation systems, separators, Swimming baths

● IRRIGATION

Field irrigation, sprinkler irrigation, drip-feed irrigation

Operating condition

● Thin, clean, non-flammable and not explosive liquid that does not contain solid particles or fibers

● Liquid temperature:

Normal temperature type: -15°C to +70°C

Hot water type -15°C to +120°C

● Ambient temperature: maximum +40°C

● Altitude: Maximum 1000m

Pump

NB/NBF pumps are non-self-priming, vertical multistage centrifugal pumps. Pumps are coupled with motors by couplings. The chamber stack and the outer cylinder are secured between the inlet outlet chamber and the pump head by staybolts. The chamber has inlet and outlet ports on the same level (in line).

Electric motor

- Motor is totally enclosed, fan cooled two pole standard motor
- Protection class : IP55
- Insulation class :F
- Standard voltage :
50Hz:
1×220V
3×380V

Performance curve

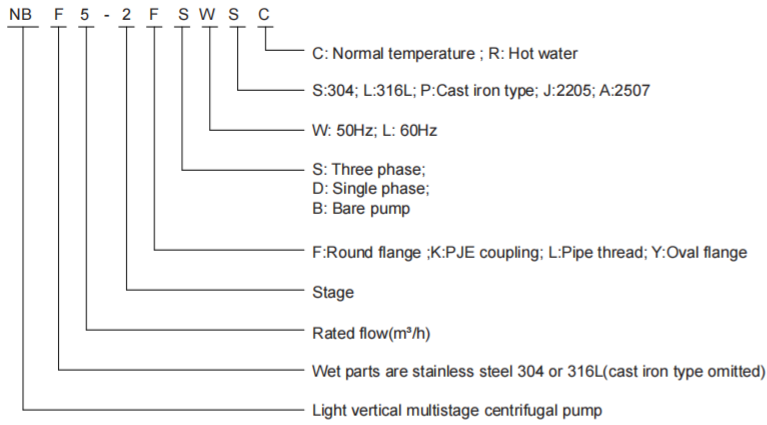
Guidelines to performance curves

The guidelines below apply to the performance curves:

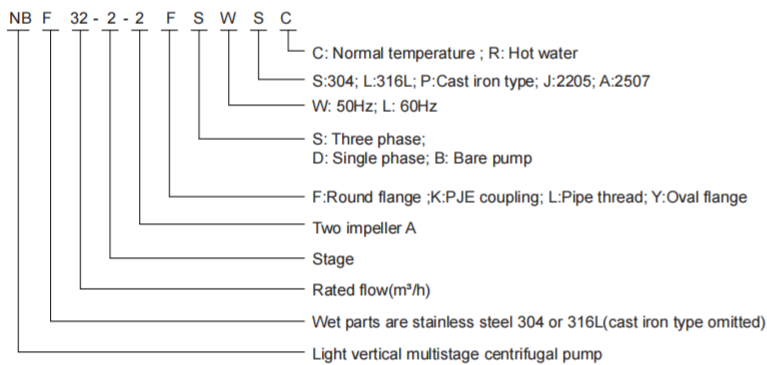
- All curves are based on motor measurements at a constant speed of 2900rpm or 2950rpm.
- Tolerances to ISO 9906:2012, Grade 3B
- Measurements have been made with airless water at a temperature of 20 °C. The curves apply to the following kinematic viscosity: 1 mm²/s
- The bold curves indicate the recommended duty range for best efficiency. Due to the risk of overheating, the pumps must not be used at a flow rate below the minimum flow rate. Due to the risk of overload, the pumps must not be used at a flow rate over the maximum flow rate.

Model definition

NB/NBF 1,2,3,4,5,8,10,12,15,20 and 25

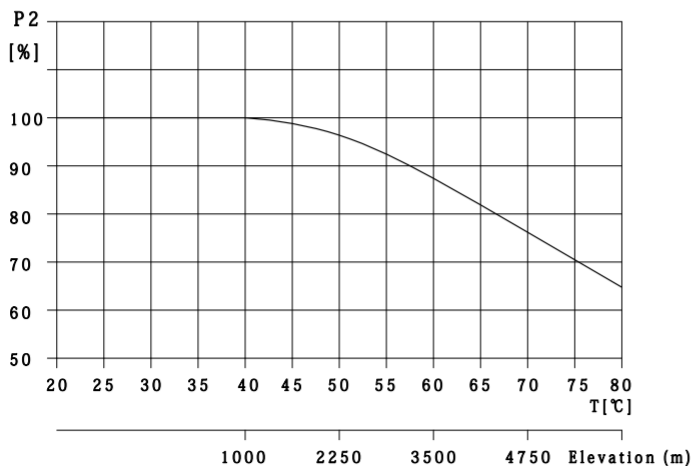


NB/NBF 32,42,65,85,95,125,155,185,215,285,315,355 and 395



Max. ambient temperature

If the ambient temperature exceeds the 40 °C or the pump is installed at an altitude exceeding the 1000m, due to the low density and low cooling effect of the air, the motor rated output will be reduced. It may be necessary to use a motor with a higher rated output.



Minimum inlet pressure, NPSHr

If the inner pump pressure is less than liquid vapor pressure, cavitation could happen.

To avoid cavitation, make sure that there is a minimum pressure on the inlet side of the pump.

Calculate the maximum suction lift "H" in metres head as follows:

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

P_b = Barometric pressure in bar.

P_b can be set to 1 bar at sea level.

In closed systems, P_b indicates the system pressure in bar.

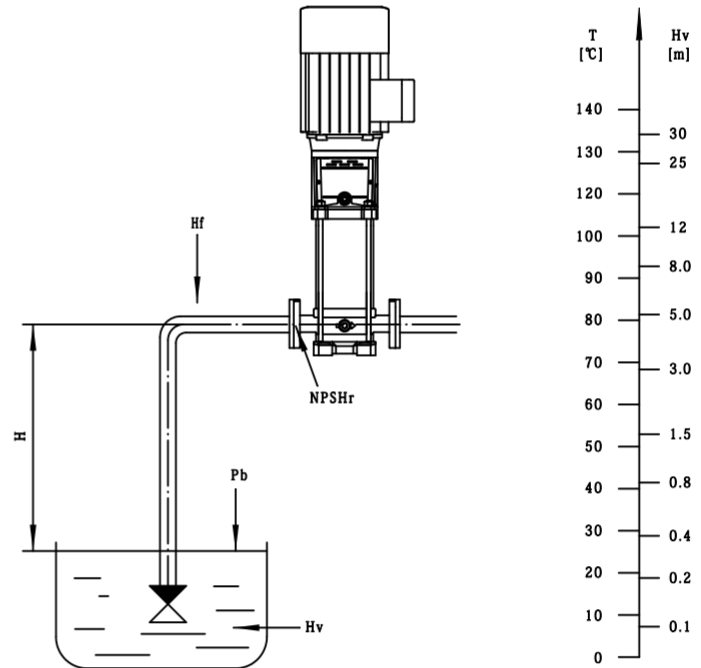
NPSH_r = Net Positive Suction Head in metres head. To be read from the NPSH_r curve at the highest flow rate the pump will be delivering.

H_f = Friction loss in inlet pipe in metres head

H_v = Vapour pressure in metres head.

H_s = safe margin - 0.5 m head

If the calculated "H" is positive, the pump can operate at a suction lift of maximum "H" m head. If the calculated "H" is negative, an inlet pressure of minimum "H" m head is required.



※ Always check the pump is not in cavitation.

Product range

Model		NB/NBF									
Features											
Rated flow[m ³ /h]		1	3	5	10	15	20	25	32	42	65
Rated flow[l/s]		0.28	0.83	1.39	2.78	4.17	5.56	6.94	8.89	11.67	18.06
Flow range[m ³ /h]		0.5 ~ 2.2	1.2 ~ 4.4	2.5 ~ 8.5	5 ~ 14	8 ~ 22	10 ~ 28	7.5 ~ 32.5	16 ~ 40	25 ~ 55	30 ~ 80
Flow range[l/s]		0.14 ~ 0.61	0.33 ~ 1.22	0.69 ~ 2.36	1.39 ~ 3.89	2.22 ~ 6.11	2.78 ~ 7.78	2.08 ~ 9.03	4.44 ~ 11.11	6.94 ~ 15.28	8.33 ~ 22.22
Max pressure[bar]		25	23	24	24	24	23	22	29	30	22
Motor power[kW]		0.37 ~ 2.2	0.37 ~ 3	0.37 ~ 5.5	0.75 ~ 11	1.1 ~ 15	1.1 ~ 18.5	2.2 ~ 22	1.5 ~ 30	3 ~ 45	4 ~ 45
Temperature range[°C]		-15 ~ +120									
Max eff.[%]		48	58	70	72	73	73	73	73	75	78
NB Pipelines	DIN flange	DN25	DN25	DN32	DN40	DN50	DN50	DN50	DN65	DN80	DN100
	Oval flange	G1	G1	G1 1/4	G1 1/2	-	-	-	-	-	-
NBF Pipelines	DIN flange	DN25	DN25	DN32	DN40	DN50	DN50	DN50	DN65	DN80	DN100
	Ferrule fitting	DN32	DN32	DN32	DN50	DN50	DN50	DN50	-	-	-
	Pipe thread	R1 1/4	R1 1/4	R1 1/4	R2	R2	R2	R2	-	-	-
	Oval flange	G1	G1	G1 1/4	G1 1/2	-	-	-	-	-	-

Model												
Features												
Rated flow[m ³ /h]		85	95	125	155	185	215	255	285	315	355	395
Rated flow[l/s]		23.61	26.39	34.72	43.06	51.39	59.72	70.83	79.17	87.5	98.61	109.72
Flow range[m ³ /h]		50 ~ 110	45 ~ 120	60 ~ 160	75 ~ 200	90 ~ 240	110 ~ 280	125 ~ 330	170 ~ 370	190 ~ 410	210 ~ 460	235 ~ 520
Flow range[l/s]		13.89 ~ 30.56	12.5 ~ 33.33	16.67 ~ 44.44	20.83 ~ 55.56	25 ~ 66.67	30.56 ~ 77.78	34.72 ~ 91.67	47.2 ~ 102.78	52.8 ~ 113.89	58.3 ~ 127.78	65.3 ~ 144.44
Max pressure[bar]		17	23	33	28	36	34	28	35	36	32	30
Motor power[kW]		5.5 ~ 45	5.5 ~ 55	11 ~ 110	11 ~ 110	18.5 ~ 200	22 ~ 200	30 ~ 200	45 ~ 280	55 ~ 315	55 ~ 315	75 ~ 315
Temperature range[°C]		-15 ~ +120										
Max eff.[%]		78	83.5	84.5	85	85	85	87	88	89	89	89
NB(F) Pipelines	DIN flange	DN100	DN100	DN150	DN150	DN200	DN200	DN200	DN200	DN200	DN200	DN200

Max working pressure

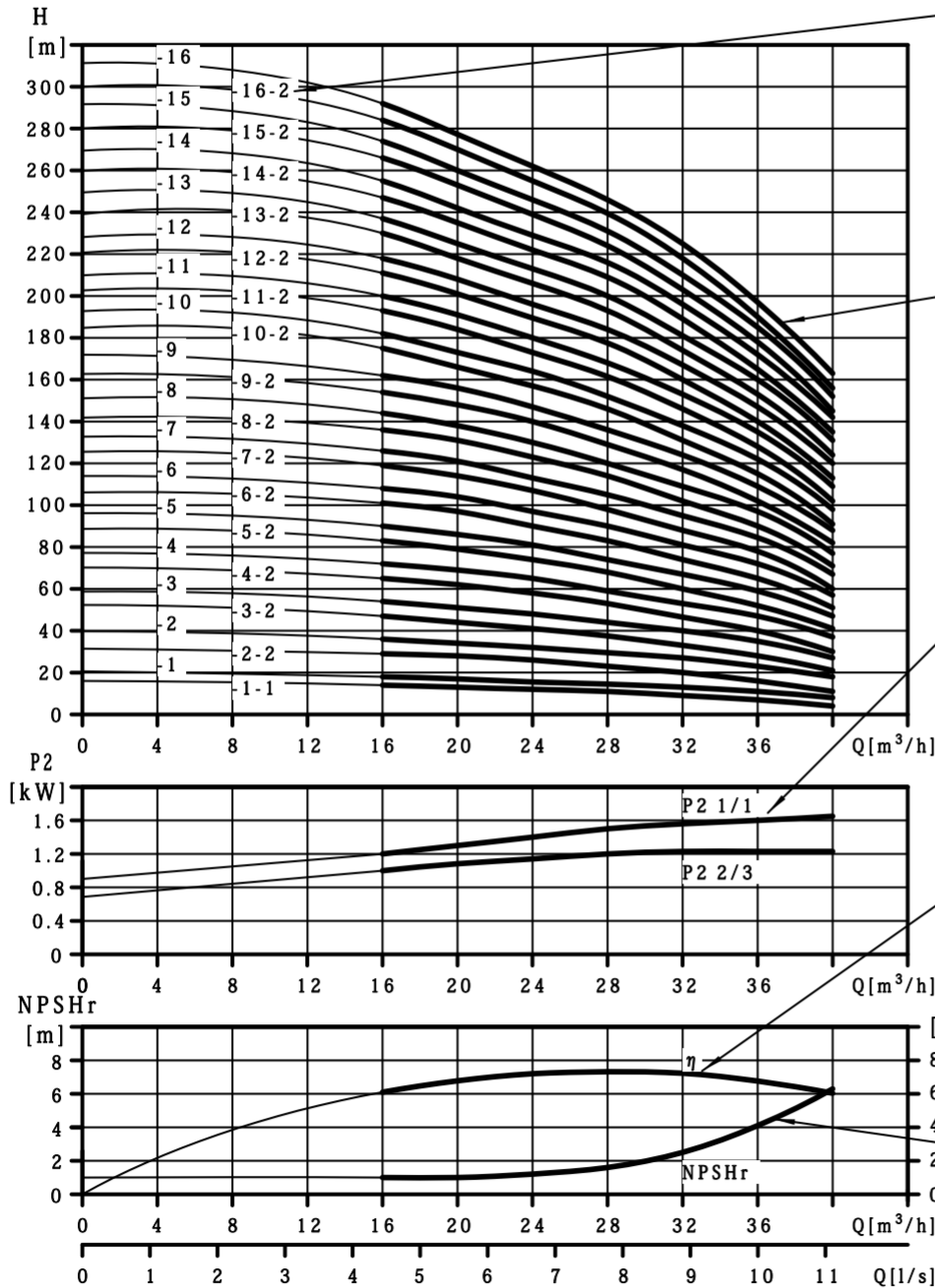
Model	Max working pressure(bar)
NB/NBF1,2,3,4,5,8,10,12,15,20, 25 Flange, Ferrule, Pipe thread	25
NB/NBF1,2,3,4,5,8,10 Oval flange	16
NB32-1-1 ~ 32-8	16(※30)
NB32-9-2 ~ 32-16	30
NBF32	30
NB42-1-1 ~ 42-6-2	16(※30)
NB42-6 ~ 42-9	25(※30)
NB42-10-2 ~ 42-13-2	30
NBF42-1-1 ~ 42-9	25(※30)
NBF42-10-2 ~ 42-13-2	30
NB65-1-1 ~ 65-5-2	16(※25)
NB65-5-1 ~ 65-8-1	25
NBF65	25
NB85-1-1 ~ 85-4-2	16(※25)
NB85-4 ~ 85-6	25
NBF85	25
NB/NBF95-1-1 ~ 95-8-2	25
NB/NBF125-1-1 ~ 125-7	25
NB/NBF125-8 ~ 125-10	40
NB/NBF155-1-1 ~ 155-4-1	25
NB/NBF155-5-2 ~ 155-8-2	40
NB/NBF185-1-1 ~ 185-5	25
NB/NBF185-6-3 ~ 185-8	40
NB/NBF215-1-1 ~ 215-4	25
NB/NBF215-5-2 ~ 215-7-2	40
NB/NBF255-1-1 ~ 255-5-3	25
NB/NBF255-5 ~ 255-6-2	40
NB/NBF285-1 ~ 285-3	25
NB/NBF285-4 ~ 285-7-3	40
NB/NBF315-1 ~ 315-4	25
NB/NBF315-5 ~ 315-7-1	40
NB/NBF355-1 ~ 355-3	25
NB/NBF355-4 ~ 355-6-2	40
NB/NBF395-1 ~ 395-3	25
NB/NBF395-4 ~ 395-5	40

MEI value

Model	MEI
NB(F)1-3	> 0.7
NB(F)3-3	> 0.7
NB(F)5-3	> 0.7
NB(F)10-3	> 0.7
NB(F)15-3	> 0.7
NB(F)20-3	> 0.7
NB(F)25-3	> 0.7
NB(F)32-3	> 0.7
NB(F)42-3	> 0.7
NB(F)65-3	> 0.7
NB(F)85-3	> 0.7
NB(F)95-3	> 0.8
NB(F)125-3	> 0.8
NB(F)155-3	> 0.8
NB(F)185-3	> 0.8
NB(F)215-3	> 0.8
NB(F)255-3	> 0.8
NB(F)285-3	> 0.8
NB(F)315-3	> 0.8
NB(F)355-3	> 0.8
NB(F)395-3	> 0.8

※ () Need to indicate for the pressure in bracket

How to read the curve charts



First figure: number of stages.
Second figure: number of reduced-diameter impellers.

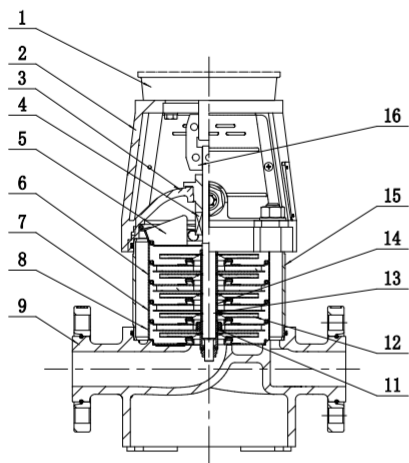
QH curve of the individual pump.
The bold curves indicate the recommended duty range for best efficiency.

The power curves indicate pump input power per stage. Curves are shown for full (1/1) and for reduced diameter (2/3) impellers.

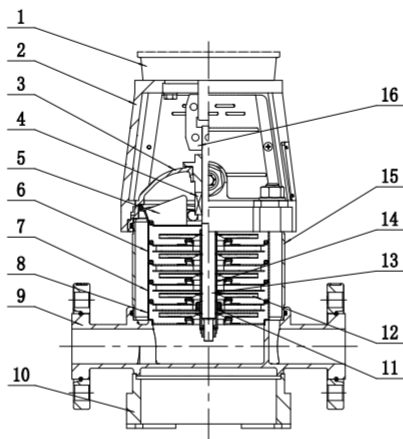
The η eta curve shows the efficiency of a pump with an average number of stages. The efficiency of pumps with reduced diameter impellers is approximately 2% lower than the eta curve shown in the chart.

The NPSHr curve is an average curve of all curves. Need to add 0.5 m safe margin.

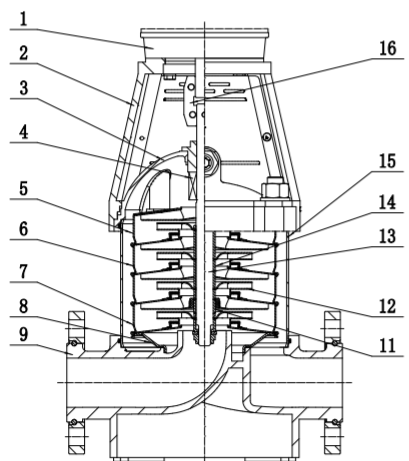
Sectional drawing



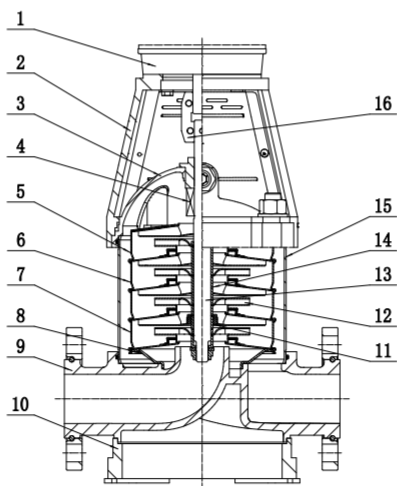
NB



NBF



NB



NBF

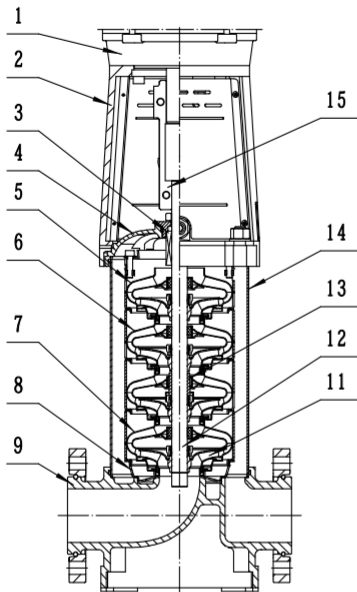
NB/NBF1,2,3,4,5 Material list

SN	Name	Material	AISI/ASTM
1	Motor	-	-
2	Bracket	Cast iron	ASTM A536-84 70-50-05
4	Mechanical seal	-	-
5	Discharge diffuser	Stainless steel	AISI304
6	Diffuser	Stainless steel	AISI304
7	Support diffuser	Stainless steel	AISI304
8	Inlet chamber	Stainless steel	AISI304
11	Shaft sleeve	Tungsten carbide	-
12	Impeller	Stainless steel	AISI304
13	Shaft	Stainless steel	AISI304
14	Sleeve	Stainless steel	AISI304
15	Cylinder	Stainless steel	AISI304
16	Coupling	Carbon steel/ Powder metallurgy	-
NB			
3	Pump head	Cast iron	ASTM25B
9	Inlet&outlet chamber	Cast iron	ASTM25B
NBF			
3	Pump head	Stainless steel	AISI304
9	Inlet&outlet chamber	Stainless steel	AISI304
10	Base plate	Cast iron	ASTM25B

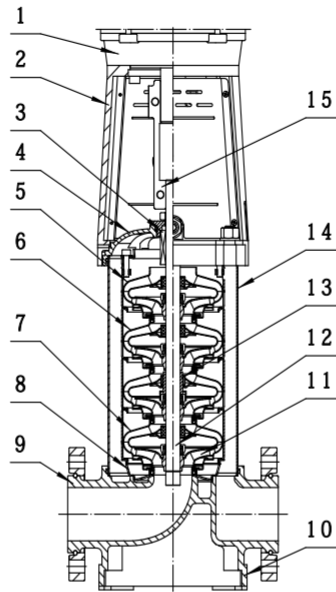
NB/NBF8,10,12,15,20,25 Material list

SN	Name	Material	AISI/ASTM
1	Motor	-	-
2	Bracket	Cast iron	ASTM A536-84 70-50-05
4	Mechanical seal	-	-
5	Discharge diffuser	Stainless steel	AISI304
6	Diffuser	Stainless steel	AISI304
7	Support diffuser	Stainless steel	AISI304
8	Inlet chamber	Stainless steel	AISI304
11	Shaft sleeve	Tungsten carbide	-
12	Impeller	Stainless steel	AISI304
13	Shaft	Stainless steel	AISI304
14	Sleeve	Stainless steel	AISI304
15	Cylinder	Stainless steel	AISI304
16	Coupling	Carbon steel	
NB			
3	Pump head	Cast iron	ASTM25B
9	Inlet&outlet chamber	Cast iron	ASTM25B
NBF			
3	Pump head	Stainless steel	AISI304
9	Inlet&outlet chamber	Stainless steel	AISI304
10	Base plate	Cast iron	ASTM A536-84 70-50-05

Sectional drawing



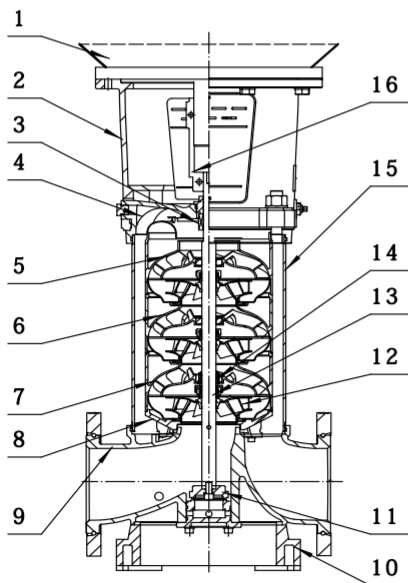
NB



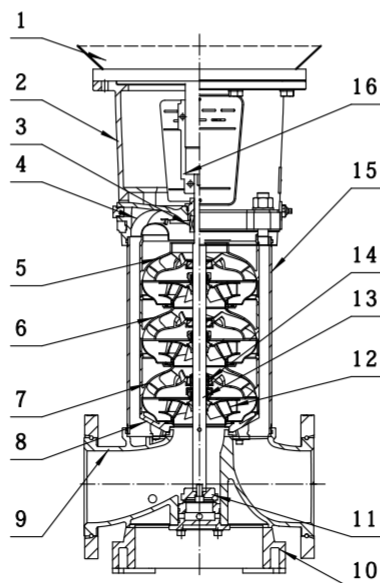
NBF

NB/NBF32,42,65,85 Material list

SN	Name	Material	AISI/ASTM
1	Motor	-	-
2	Bracket	Cast iron	ASTM A536-84 70-50-05
3	Mechanical seal	-	-
5	Discharge diffuser	Stainless steel	AISI304
6	Diffuser	Stainless steel	AISI304
7	Support diffuser	Stainless steel	AISI304
8	Inlet chamber	Stainless steel	AISI304
11	Impeller	Stainless steel	AISI304
12	Shaft	Stainless steel	AISI304
13	Shaft sleeve	Tungsten carbide	-
14	Cylinder	Stainless steel	AISI304
15	Coupling	Carbon steel	-
NB			
4	Pump head	Cast iron	ASTM25B
9	Inlet&outlet chamber	Cast iron	ASTM25B
NBF			
4	Pump head	Stainless steel	AISI304
9	Inlet&outlet chamber	Stainless steel	AISI304
10	Base plate	Cast iron	ASTM A536-84 70-50-05



NB



NBF

NB/NBF95,125,155,185,215,255,285,315,355,395 Material list

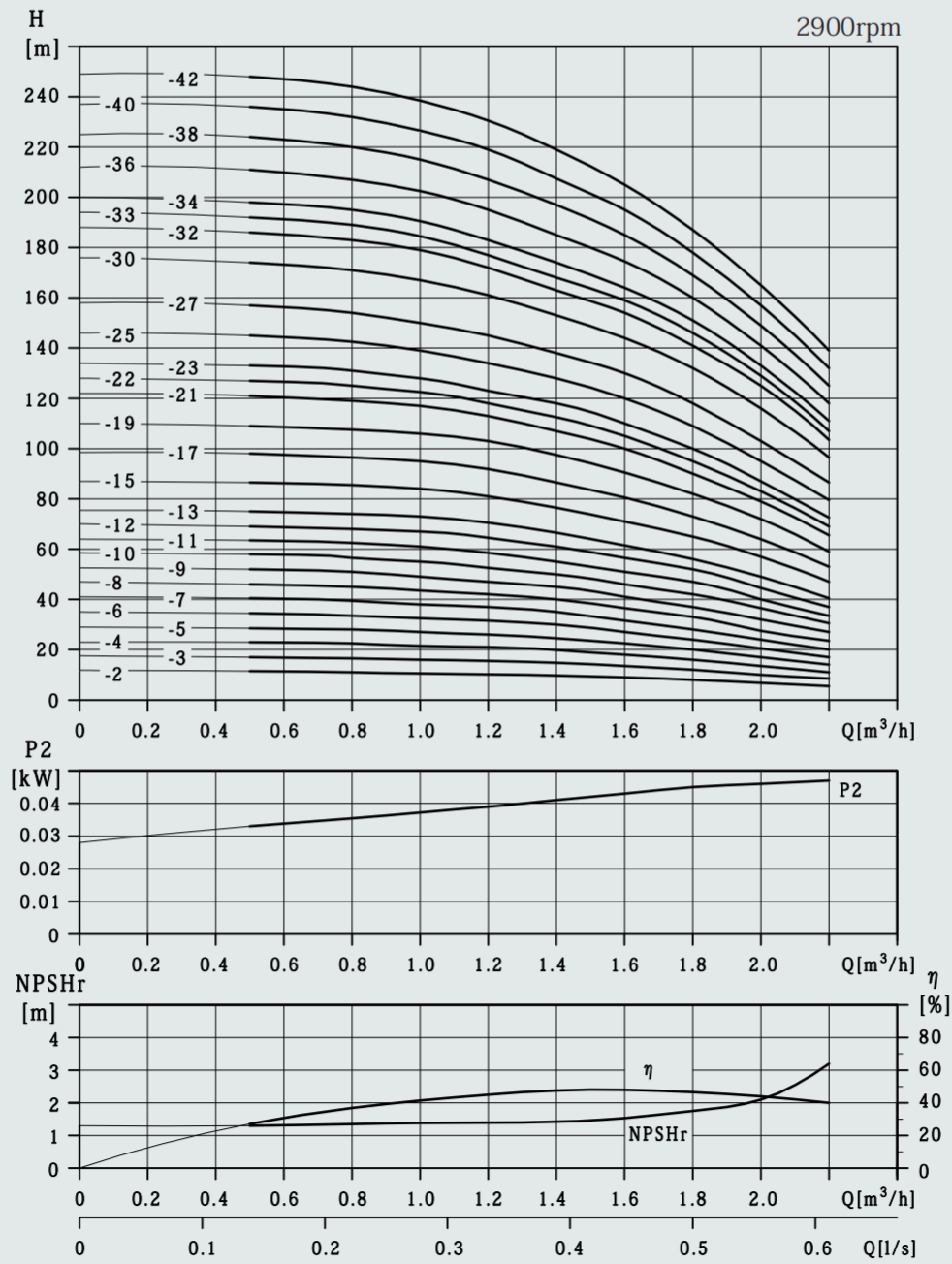
SN	Name	Material	AISI/ASTM
1	Motor	-	-
2	Bracket	Cast iron	ASTM A536-84 70-50-05
3	Mechanical seal	-	-
5	Discharge diffuser	Stainless steel	AISI304
6	Diffuser	Stainless steel	AISI304
7	Support diffuser	Stainless steel	AISI304
8	Inlet part	Stainless steel	AISI304
10	Base plate	Cast iron	ASTM A536-84 70-50-05
11	Thrust handling device※	-	-
12	Impeller	Stainless steel	AISI304
13	Shaft	Stainless steel	AISI318LN
14	Shaft sleeve	Tungsten carbide	-
15	Cylinder	Stainless steel	AISI304
16	Coupling	Carbon steel/ Powder metallurgy	-
NB			
4	Pump head	Cast iron	ASTM25B
9	Inlet&outlet chamber	Cast iron	ASTM A536-84 70-50-05
NBF			
4	Pump head	Stainless steel	AISI304
9	Inlet&outlet chamber	Stainless steel	AISI304

※Only for some models

NB/NBF1

50Hz

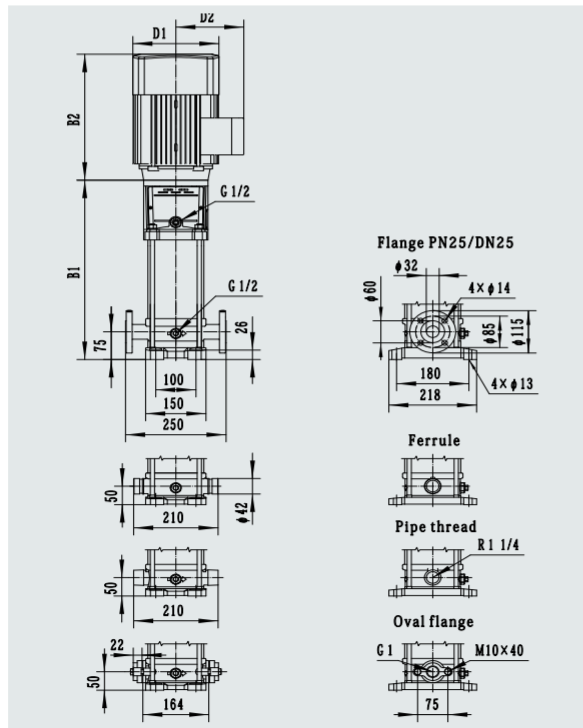
Performance curve



Performance table

Model	Motor (kW)	Q (m³/h)	0	0.5	0.8	1	1.2	1.4	1.6	1.8	2	2.2
1-2	0.37		11.8	11.5	11	10.5	10.2	9.7	9	8	6.8	5.5
1-3	0.37		17.5	17	16.5	16	15.5	14.8	13.5	12	10	8.5
1-4	0.37		23	23	22.5	21.5	21	19.8	18	16	13.5	11
1-5	0.37		29	28.5	28	27	26	24.5	22.5	20	17	14
1-6	0.37		35	34.5	33.5	32.5	31.5	30	27	24	20.5	17
1-7	0.37		41	40.5	39.5	38	37	35	31.5	28	24	20
1-8	0.55		47	46	45	43.5	42	40	36.5	33	27.5	23.5
1-9	0.55		52.5	52	51	49	47	45	41	37	32	27
1-10	0.55		58.5	58	56.5	55	52.5	50	46	42	36.5	30.5
1-11	0.55		64	63.5	62.5	61	58.5	55	51	47	40	33.5
1-12	0.75		70	69	68	67	64.5	61	56.5	52	44.5	37
1-13	0.75		75.5	75	74	73	70	66.5	61.5	56	49	40.5
1-15	0.75		87	86.5	85.5	84	81	76.5	71	65	57	47
1-17	1.1	H (m)	98.5	98	96.5	95	92	86.5	80.5	73	64	53
1-19	1.1		110	109	107.5	106	103	96.5	90.5	82	72	59
1-21	1.1		122	121	119	117	113	107	100	90	79	65.5
1-22	1.1		128	127	125	122.5	118	112.5	105	95	83	69
1-23	1.5		134	133	131	128	123	118	110	100	87	72.5
1-25	1.5		146	145	142.5	139	134	128	120	109	95	79.5
1-27	1.5		158	157	154	150	145	138	130	118	103	86.5
1-30	1.5		176	174	171	167	161	153	145	132	116	96.5
1-32	2.2		188	186	183	180	172	163	155	141	125	103.5
1-33	2.2		194	192	189	186	177	168	160	146	129	107
1-34	2.2		200	198	195	192	183	173	165	151	133	111
1-36	2.2		212	211	207	203	195	184	175	160	141	118
1-38	2.2		225	224	220	215	207	194	185	169	149	125
1-40	2.2		237	236	232	226	219	205	195	178	157	132
1-42	2.2		249	248	244	237	231	215	205	187	165	139

Installation drawing



※No oval flange connection for NB/NBF1-27-1-42

Dimensions and weight

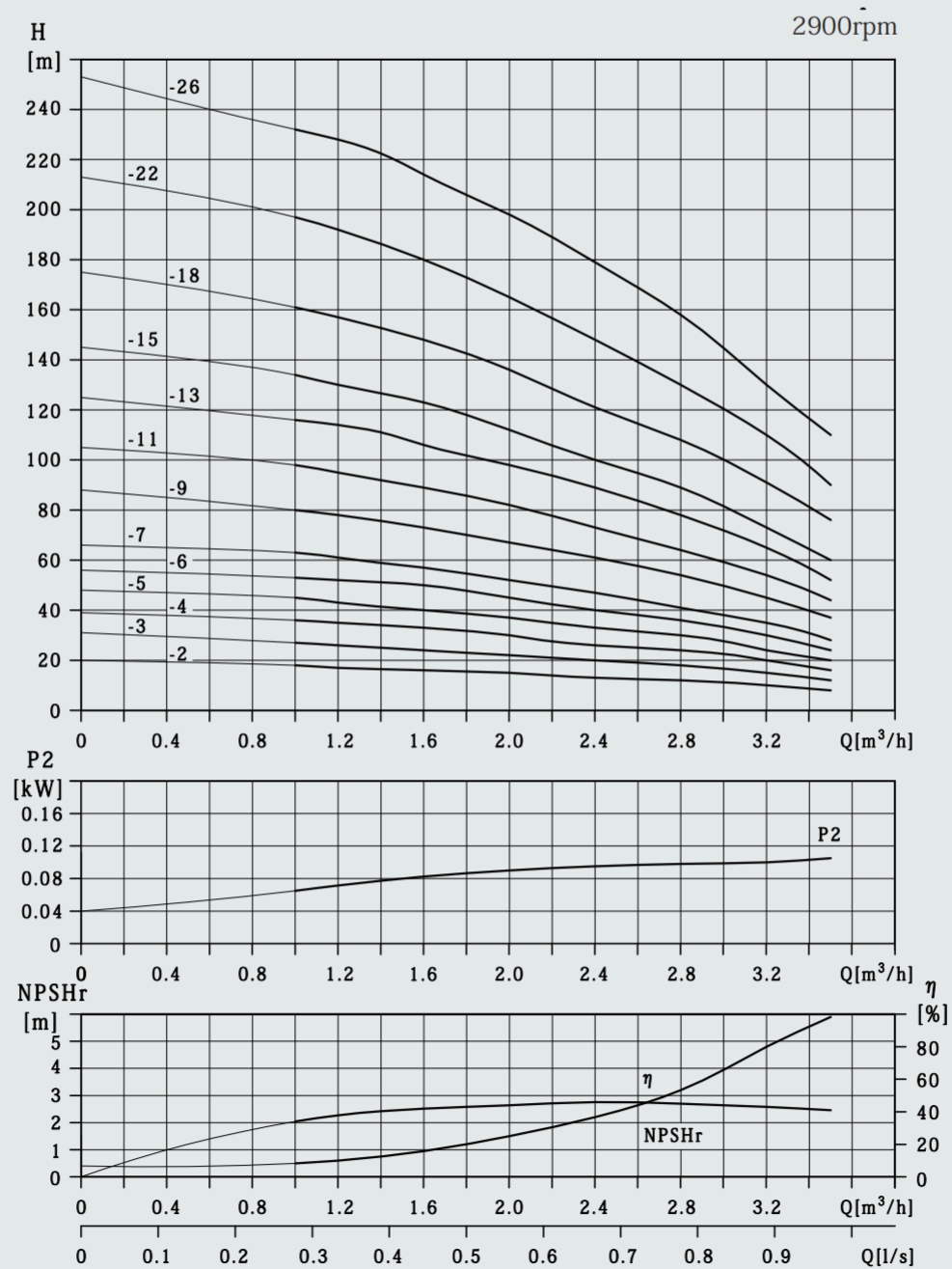
Model	Dimensions (mm)					Weight (kg)
	B1	B2	B1+B2	D1	D2	
1-2	261	220	481	138	103	23
1-3	279	220	499	138	103	23
1-4	297	220	517	138	103	24
1-5	315	220	535	138	103	24
1-6	333	220	553	138	103	25
1-7	351	220	571	138	103	25
1-8	369	220	589	138	103	28
1-9	387	220	607	138	103	28
1-10	405	220	625	138	103	29
1-11	423	220	643	138	103	30
1-12	451	248	699	148	108	33
1-13	469	248	717	148	108	34
1-15	505	248	753	148	108	35
1-17	541	248	789	148	108	36
1-19	577	248	825	148	108	37
1-21	613	248	861	148	108	38
1-22	631	248	879	148	108	38
1-23	659	292	951	171	119	43
1-25	695	292	987	171	119	44
1-27	731	292	1023	171	119	45
1-30	785	292	1077	171	119	46
1-32	821	292	1113	171	119	48
1-33	839	292	1131	171	119	48
1-34	857	292	1149	171	119	49
1-36	893	292	1185	171	119	49
1-38	929	292	1221	171	119	50
1-40	965	292	1257	171	119	51
1-42	1001	292	1293	171	119	52

※The dimensions will be different for the Ex-proof motor, please contact us for more detail.

NB/NBF2

50Hz

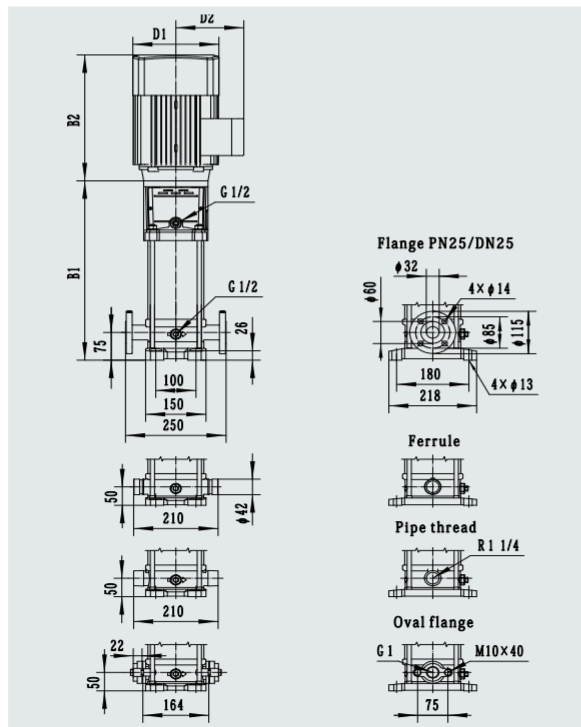
Performance curve



Performance table

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

Installation drawing



※Oval flange connection is not available NB2-13-2-18

Dimensions and weight

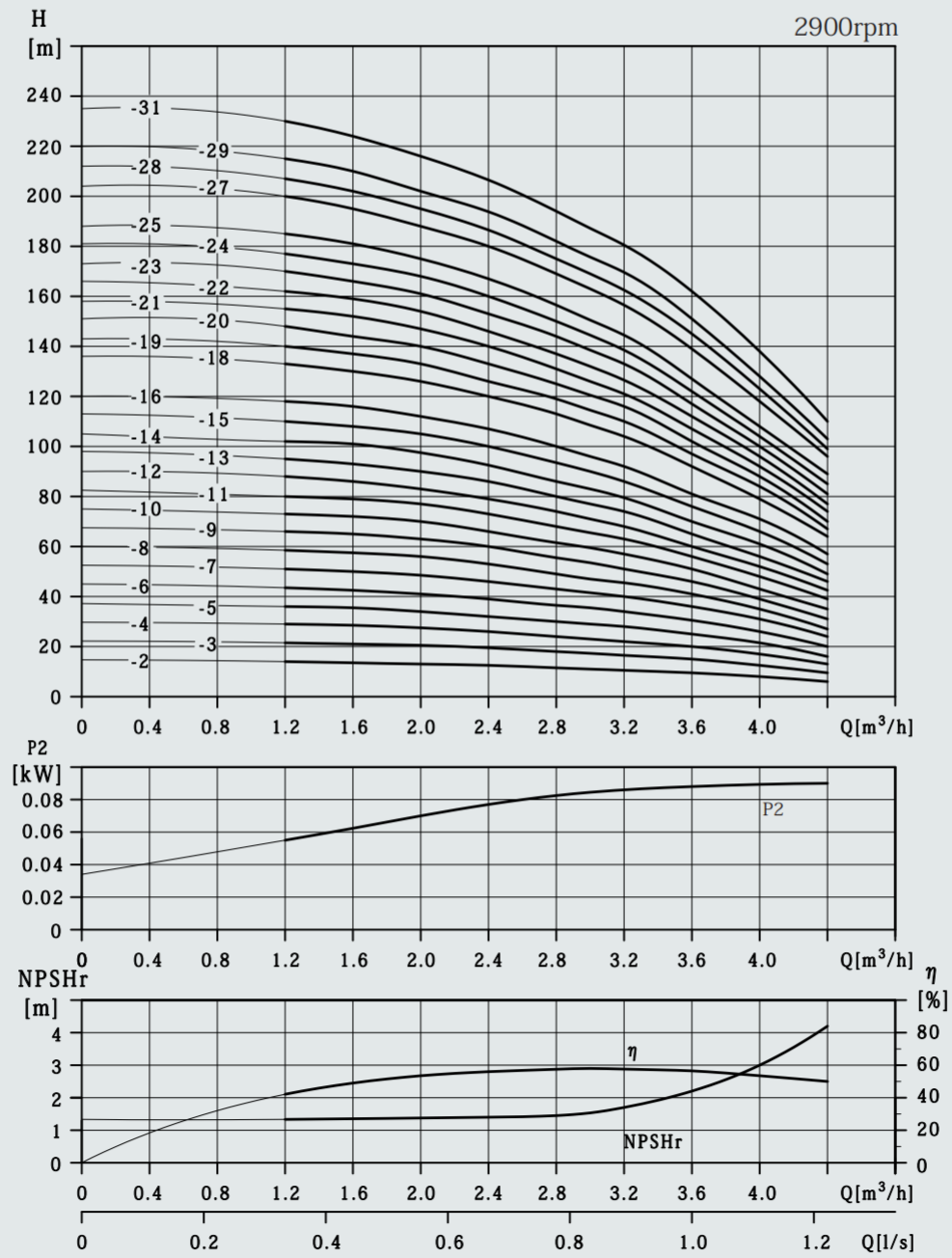
Model	Dimensions (mm)					Weight (kg)
	B1	B2	B1+B2	D1	D2	
2-2	258	220	478	138	103	24
2-3	276	220	496	138	103	24
2-4	294	220	514	138	103	25
2-5	312	220	532	138	103	26
2-6	340	248	588	148	108	30
2-7	358	248	606	148	108	30
2-9	394	248	642	148	108	33
2-11	430	248	678	148	108	34
2-13	476	292	768	171	119	40
2-15	512	292	804	171	119	42
2-18	566	292	858	171	119	46
2-22	638	292	930	171	119	47
2-26	720	343	1063	196	131	53

※The dimensions will be different for the Ex-proof motor, please contact us for more detail.

NB/NBF3

50Hz

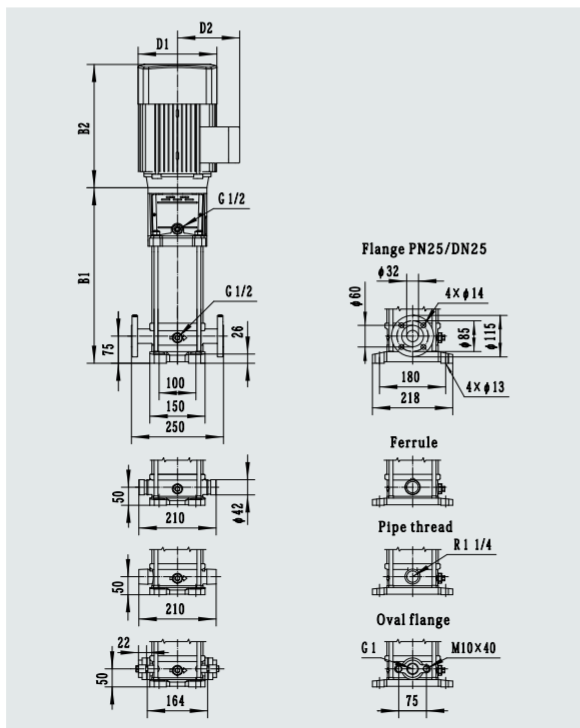
Performance curve



Performance table

Model	Motor (kW)	Q (m ³ /h)	H (m)										
			0	1.2	1.6	2	2.4	2.8	3	3.2	3.6	4	4.4
3-2	0.37		14.7	14	13.5	13	12.5	11.5	11	10.5	9.5	8	6
3-3	0.37		22.2	21.5	21	20.5	19.5	18	17	16.5	15	12.5	9.5
3-4	0.37		29.7	29	28.5	27.5	26	24	23	22	20.5	17	13
3-5	0.55		37.2	36	35.5	34	32	30	29	28	25.5	21.5	16
3-6	0.55		45	43.5	42.5	41	39	36.5	35	34	30.5	26	20
3-7	0.75		52.5	51	50	49	46	43	41	40	36	31	24
3-8	0.75		60	58.5	57.5	56	53	49	47	45.5	41	35	27
3-9	1.1		67.5	66	65	63	60	55	53	51.5	46	39	31
3-10	1.1		75	73	72	70	66	61	59	57	51	43	35
3-11	1.1		82.5	80	79	77	73	68	65	63	56	48	39
3-12	1.1		90	88	86	83	79	74	71	68	60	52	42.5
3-13	1.5		98	95	93	90	86	80	77	74	65	56	46
3-14	1.5		105	102	101	97.5	92.5	86	83	80	70	61	49
3-15	1.5		113	110	108	105	100	93	90	86	76	66	53
3-16	1.5		120	118	116	112	107	100	96	92	81	71	57
3-18	2.2		136	133	130	126	120	113	108	104	92	79	64
3-19	2.2		143	140	137	133	126	119	114	110	97	84	67
3-20	2.2		151	148	144	140	133	125	120	116	102	88	70
3-21	2.2		158	155	152	147	140	131	126	122	107	92	74
3-22	2.2		166	162	159	154	146	137	132	127	112	96	77
3-23	2.2		173	170	166	161	153	144	138	133	117	100	81
3-24	2.2		181	177	173	168	160	150	144	139	122	104	85
3-25	3		188	185	181	175	167	156	150	145	127	108	89
3-27	3		204	200	195	188	180	169	162	157	139	118	96
3-28	3		212	207	202	195	187	175	168	163	145	123	99
3-29	3		220	215	210	202	194	182	175	170	151	128	103
3-31	3		235	230	224	216	207	194	187	181	162	138	110

Installation drawing



※NB/NBF3-21-3-31No oval flange connection

Dimensions and weight

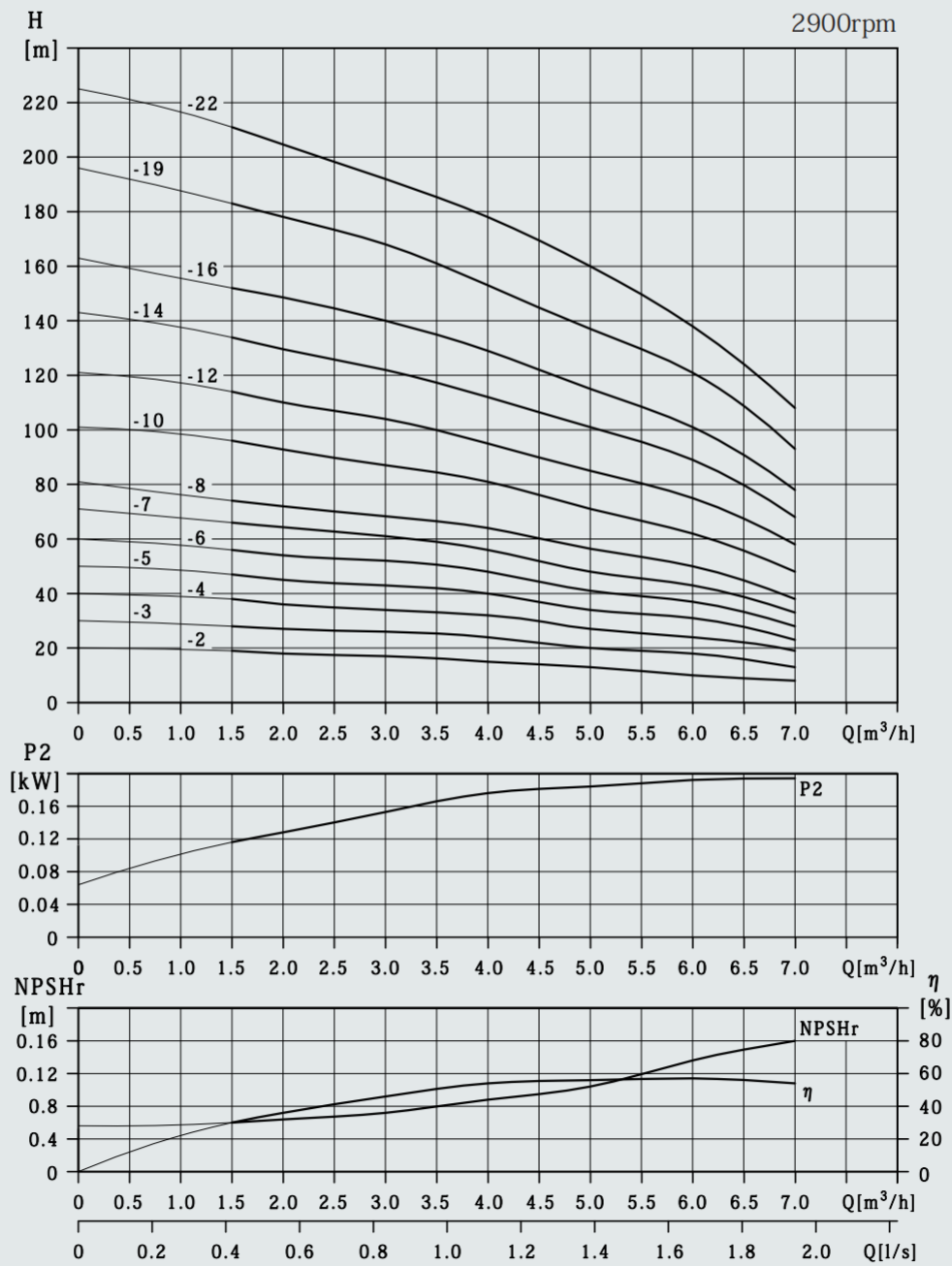
Model	Dimensions (mm)					Weight (kg)
	B1	B2	B1+B2	D1	D2	
3-2	261	220	481	138	103	23
3-3	279	220	499	138	103	23
3-4	297	220	517	138	103	24
3-5	315	220	535	138	103	24
3-6	333	220	553	138	103	25
3-7	361	248	609	148	108	30
3-8	379	248	627	148	108	30
3-9	397	248	645	148	108	31
3-10	415	248	663	148	108	31
3-11	433	248	681	148	108	32
3-12	451	248	699	148	108	32
3-13	479	292	771	171	119	39
3-14	497	292	789	171	119	39
3-15	515	292	807	171	119	40
3-16	533	292	825	171	119	40
3-18	569	292	861	171	119	44
3-19	587	292	879	171	119	44
3-20	605	292	897	171	119	45
3-21	623	292	915	171	119	45
3-22	641	292	933	171	119	46
3-23	659	292	951	171	119	46
3-24	677	292	969	171	119	47
3-25	705	343	1048	196	131	55
3-27	741	343	1084	196	131	56
3-28	759	343	1102	196	131	57
3-29	777	343	1120	196	131	57
3-31	813	343	1156	196	131	58

※The dimensions will be different for the Ex-proof motor, please contact us for more detail.

NB/NBF4

50Hz

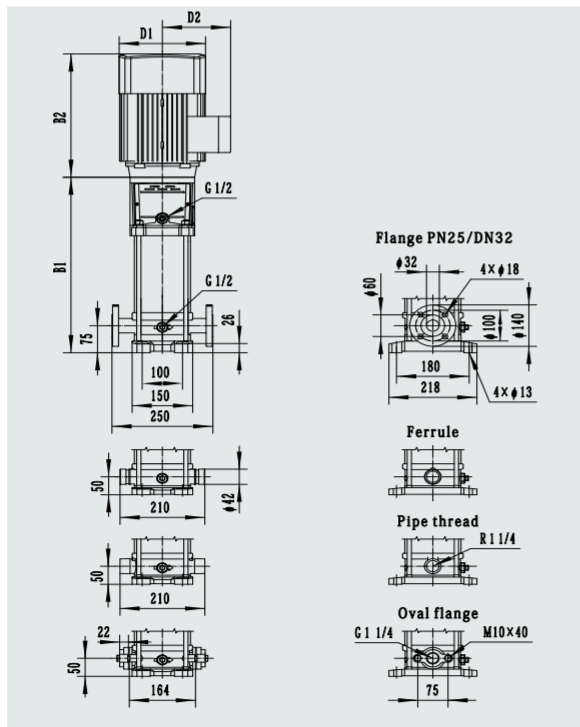
Performance curve



Performance table

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

Installation drawing



※Oval flange connection is not available NB4-12-4-16

Dimensions and weight

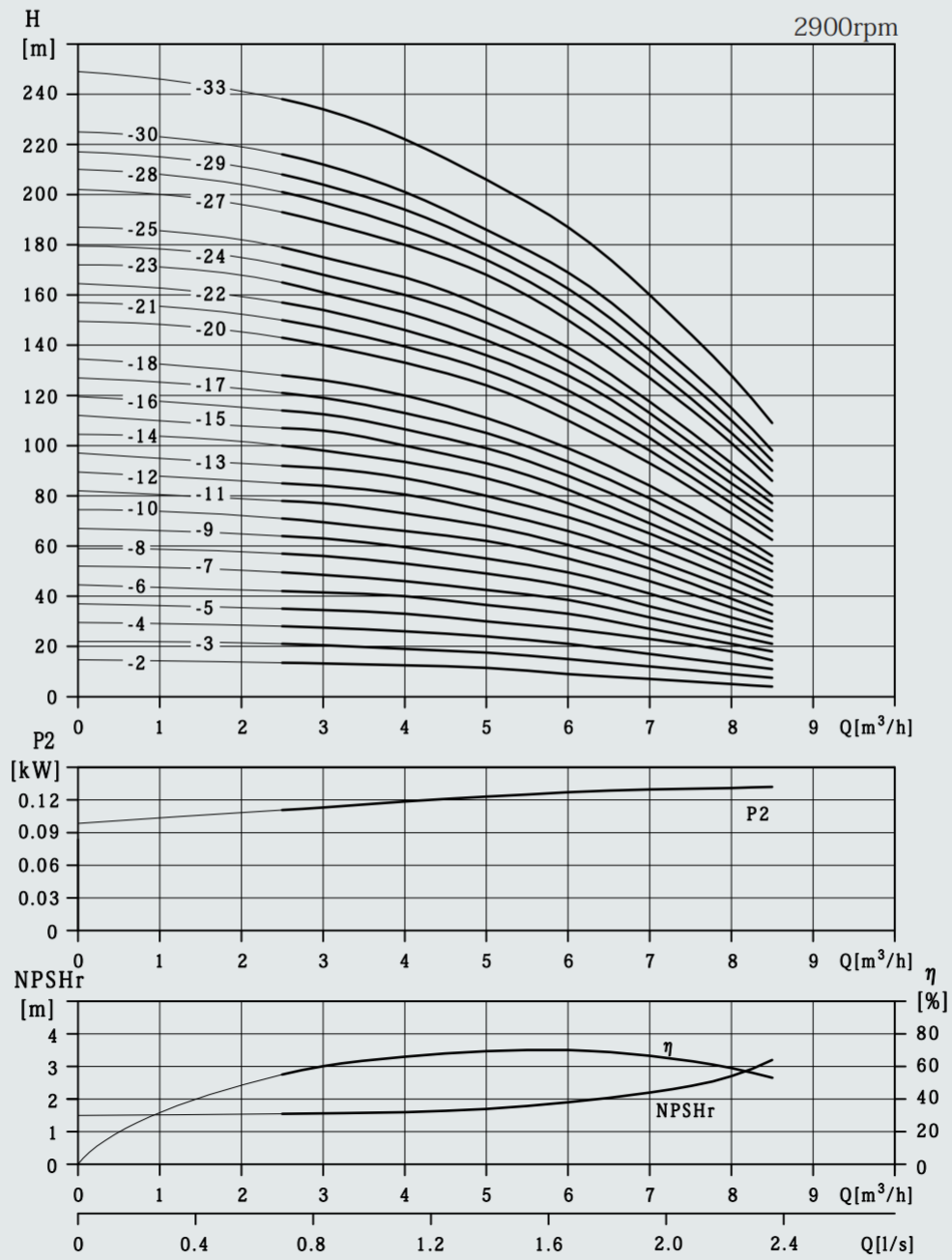
Model	Dimensions (mm)					Weight (kg)
	B1	B2	B1+B2	D1	D2	
4-2	276	220	496	138	103	22
4-3	303	220	523	138	103	24
4-4	340	248	588	148	108	30
4-5	367	248	615	148	108	32
4-6	394	248	642	148	108	33
4-7	431	292	723	171	119	39
4-8	458	292	750	171	119	40
4-10	512	292	804	171	119	43
4-12	566	292	858	171	119	44
4-14	630	343	973	196	131	52
4-16	684	343	1027	196	131	54
4-19	765	348	1113	215	150	56
4-22	846	348	1194	215	150	59

※The dimensions will be different for the Ex-proof motor, please contact us for more detail.

NB/NBF5

50Hz

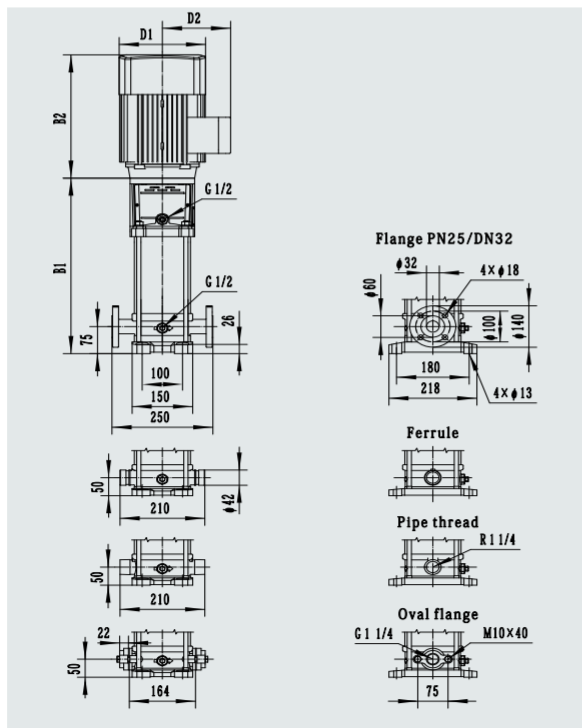
Performance curve



Performance table

Model	Motor (kW)	Q (m³/h)	0	2.5	3	4	5	6	7	8	8.5
5-2	0.37		14.7	13.5	13.2	12.5	11.5	9	7	5	4
5-3	0.55		22	21	20.5	19	17.5	15	12	9	7.5
5-4	0.55		29.5	28	27.5	26	24	21	17	13	11
5-5	0.75		37	35	34.5	33	30	27	23	18	14.5
5-6	1.1		44.5	42	41.5	40	37	33	27	21	18
5-7	1.1		52	49.5	48.5	46	42.5	38.5	31.5	24.5	21
5-8	1.1		59	57	56	53	49	44	36	28	24
5-9	1.5		67	64	63	59.5	55	49.5	41	31.5	27
5-10	1.5		74.5	71	69.5	66	62	55	46	35.5	30
5-11	1.5		82	78	77	73	68	60.5	51	39	33
5-12	2.2		89.5	85	84	80.5	74.5	66	55	43	36.5
5-13	2.2		97	92	91	87	80	71.5	60	47	40
5-14	2.2		104.5	100	98	93.5	87	77	65	51	43.5
5-15	2.2	H	112	107	106	100	93	82.5	69	54.5	46.5
5-16	2.2	(m)	119.5	114	112.5	106.5	99	88	74	58	50
5-17	3		127	121	119	113	105	93.5	79	62	53
5-18	3		134.5	128	126	120	111	99	84	66	56
5-20	3		149.5	143	140	133	124	110	93	73	62.5
5-21	3		157	150	147	139.5	130	116	98	77	66
5-22	4		164.5	157	154	146	136	122	103	81	70
5-23	4		172	165	161	153	142	128	108	85	74
5-24	4		179.5	172	168	160	149	133.5	113	89	77
5-25	4		187	179	175	167	155	139	117.5	93	80
5-27	4		202	193	189	180	168	150	127	101	86
5-28	4		210	201	197	187	174	156	132	105	90
5-29	5.5		217	208	204	194	180	162.5	138	110	94
5-30	5.5		225	216	212	201	186	169	144	115	98
5-33	5.5		249	238	234	222	206	187	160	128	109

Installation drawing



※NB/NBF5-21-5-33No oval flange connection

Dimensions and weight

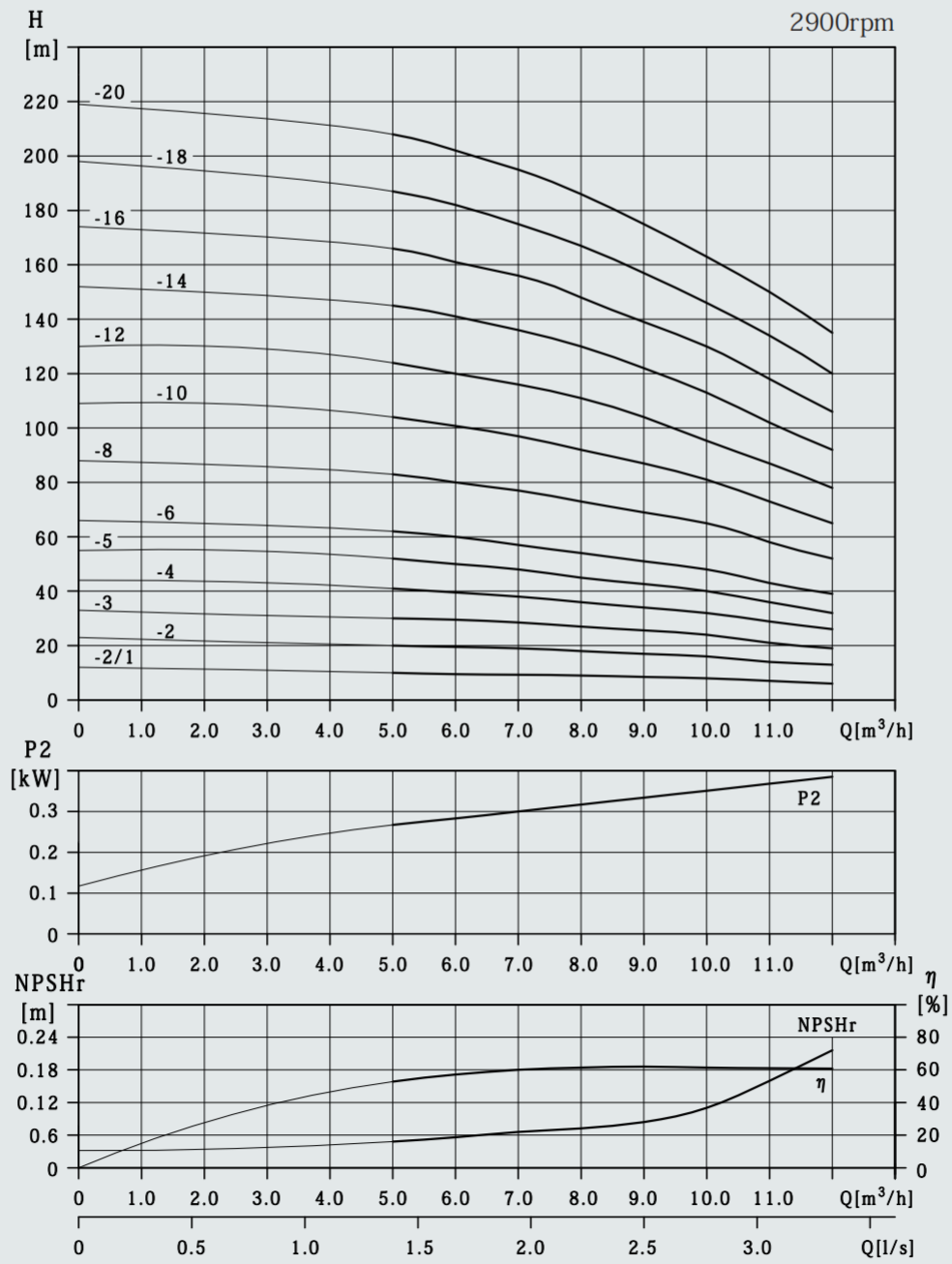
Model	Dimensions (mm)					Weight (kg)
	B1	B2	B1+B2	D1	D2	
5-2	279	220	499	138	103	22
5-3	306	220	526	138	103	24
5-4	333	220	553	138	103	25
5-5	370	248	618	148	108	28
5-6	397	248	645	148	108	30
5-7	424	248	672	148	108	30
5-8	451	248	699	148	108	31
5-9	488	292	780	171	119	36
5-10	515	292	807	171	119	36
5-11	542	292	834	171	119	37
5-12	569	292	861	171	119	41
5-13	596	292	888	171	119	41
5-14	623	292	915	171	119	42
5-15	650	292	942	171	119	42
5-16	677	292	969	171	119	43
5-17	714	343	1057	196	131	51
5-18	741	343	1084	196	131	51
5-20	795	343	1138	196	131	52
5-21	822	343	1165	196	131	52
5-22	849	348	1197	215	150	59
5-23	876	348	1224	215	150	59
5-24	903	348	1251	215	150	60
5-25	930	348	1278	215	150	60
5-27	984	348	1332	215	150	61
5-28	1011	348	1359	215	150	61
5-29	1116	383	1499	257	167	83
5-30	1143	383	1526	257	167	83
5-33	1224	383	1607	257	167	84

※The dimensions will be different for the Ex-proof motor, please contact us for more detail.

NB/NBF8

50Hz

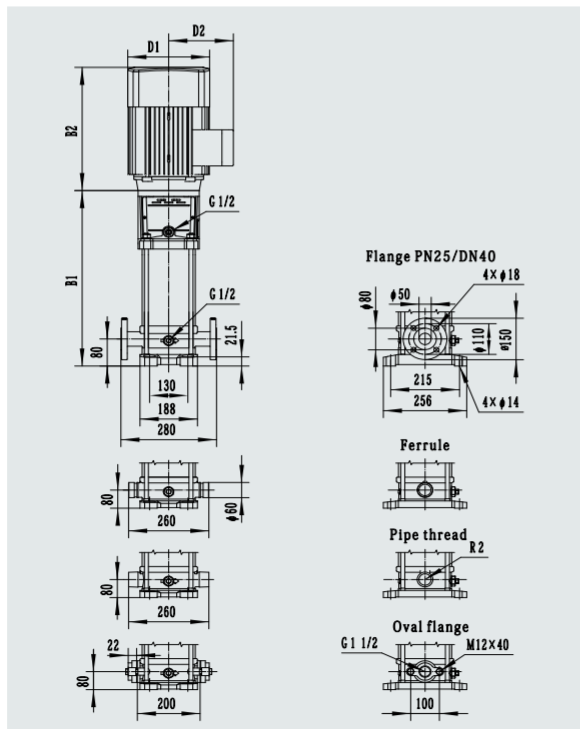
Performance curve



Performance table

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

Installation drawing



※Oval flange connection is not available NB8-10-8-14

Dimensions and weight

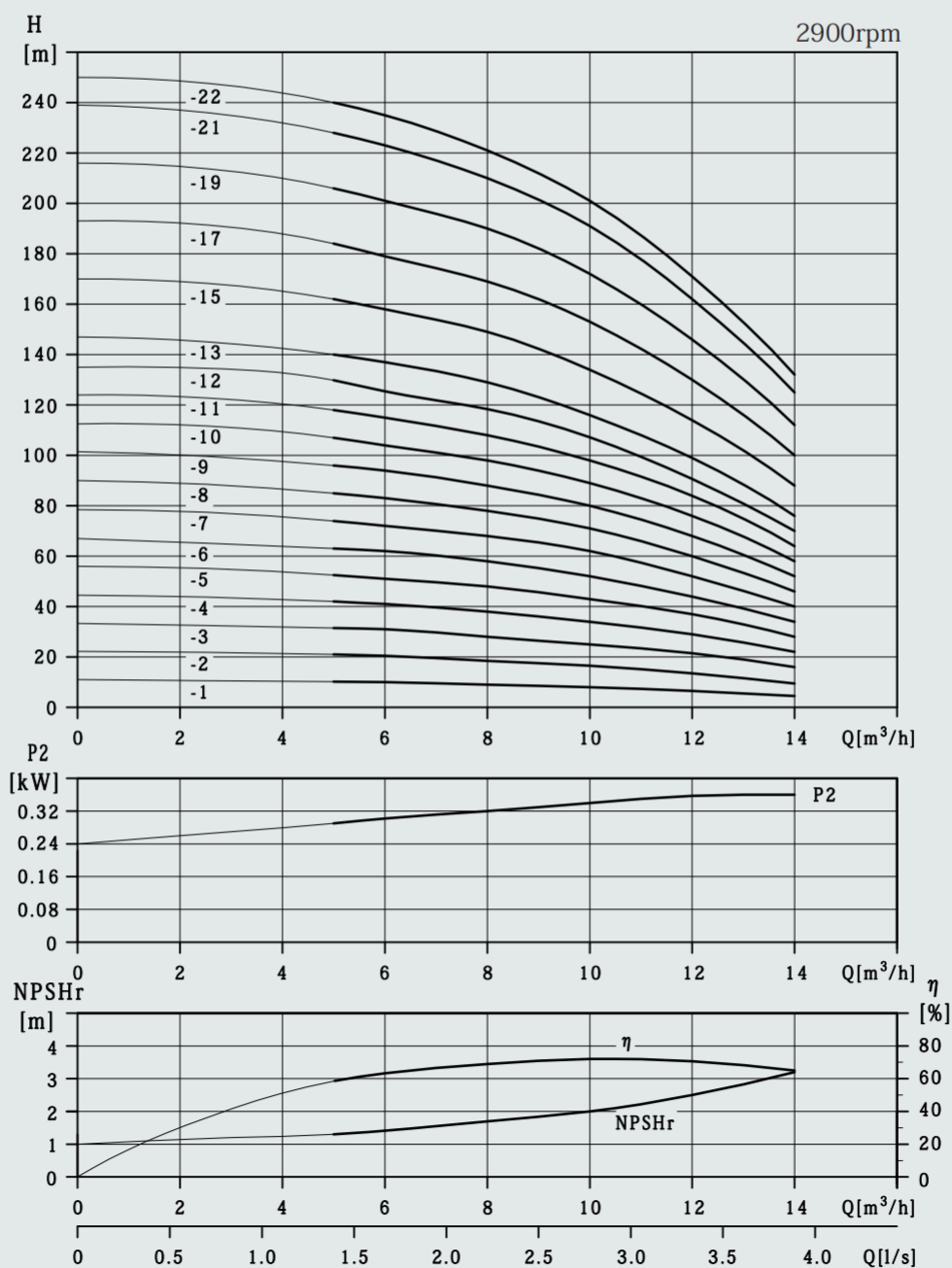
Model	Dimensions (mm)					Weight (kg)
	B1	B2	B1+B2	D1	D2	
8-2/1	347	248	595	148	108	33
8-2	347	248	595	148	108	33
8-3	377	248	625	148	108	35
8-4	417	292	709	171	119	42
8-5	447	292	739	171	119	46
8-6	477	292	769	171	119	47
8-8	547	343	890	196	131	55
8-10	607	348	955	215	150	67
8-12	667	348	1015	215	150	70
8-14	747	383	1130	257	167	85
8-16	807	383	1190	257	167	88
8-18	867	383	1250	257	167	98
8-20	927	383	1310	257	167	99

※The dimensions will be different for the Ex-proof motor, please contact us for more detail.

NB/NBF10

50Hz

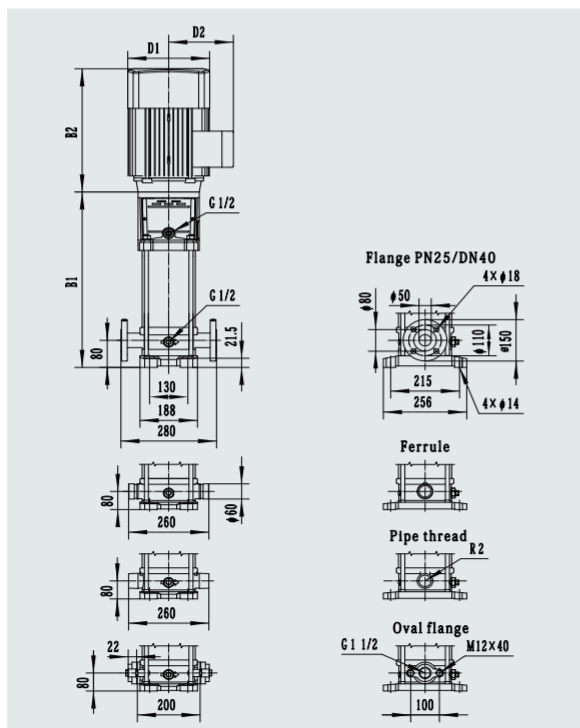
Performance curve



Performance table

Model	Motor (kW)	Q (m³/h)	0	5	6	8	10	12	14
10-1	0.75	H (m)	11	10.2	10	9	8	6.5	4.5
10-2	0.75		22.2	21	20.5	18.5	16.5	13.5	9.5
10-3	1.1		33.3	31.5	31	28	25.5	21.5	16
10-4	1.5		44.5	42	41	38	34	29	22
10-5	2.2		56	52.5	51	48	43	37	28
10-6	2.2		67	63	62	58	52	44	34
10-7	3		78.5	74	72	68	62	52	40
10-8	3		90	85	83	78	71	60	46
10-9	4		101.5	96	94	88	80	68	52
10-10	4		112.5	107	104	98	89	76	58
10-11	4		124	118	115	108	98	84	64
10-12	4		135	129	126	118	107	91	70
10-13	5.5		147	140	137	129	116	99	76
10-15	5.5		170	162	158	149	134	114	88
10-17	7.5		193	184	179	169	153	130	100
10-19	7.5		216	206	201	190	172	146	112
10-21	7.5		239	228	223	210	191	162	125
10-22	11		250	240	235	221	201	171	132

Installation drawing



*NB/NBF10-15-10-22No oval flange connection

Dimensions and weight

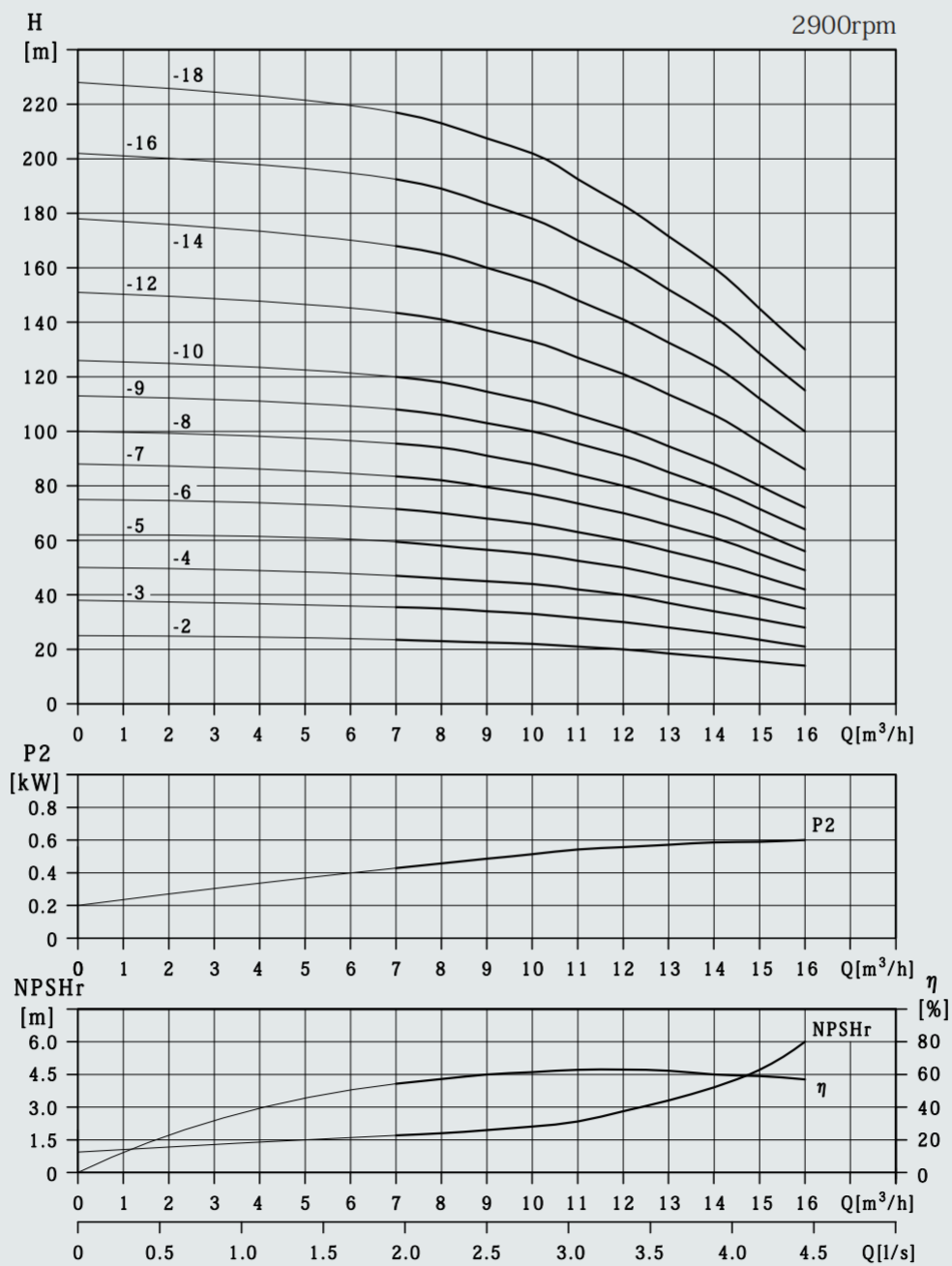
Model	Dimensions (mm)					Weight (kg)
	B1	B2	B1+B2	D1	D2	
10-1	350	248	598	148	108	40
10-2	350	248	598	148	108	41
10-3	380	248	628	148	108	43
10-4	420	292	712	171	119	49
10-5	450	292	742	171	119	53
10-6	480	292	772	171	119	54
10-7	520	343	863	196	131	64
10-8	550	343	893	196	131	65
10-9	580	348	928	215	150	73
10-10	610	348	958	215	150	74
10-11	640	348	988	215	150	75
10-12	670	348	1018	215	150	87
10-13	778	383	1161	257	167	99
10-15	838	383	1221	257	167	101
10-17	898	383	1281	257	167	106
10-19	958	383	1341	257	167	107
10-21	1018	383	1401	257	167	108
10-22	1078	501	1579	314	258	173

※The dimensions will be different for the Ex-proof motor, please contact us for more detail.

NB/NBF12

50Hz

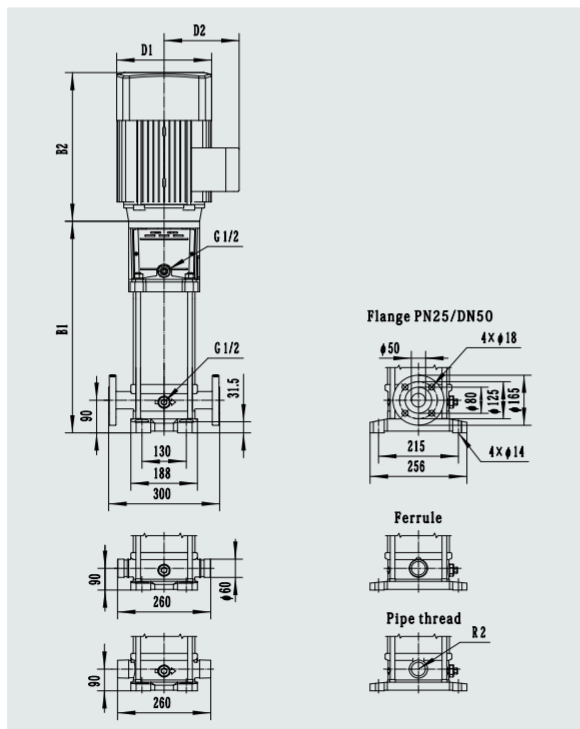
Performance curve



Performance table

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

Installation drawing



Dimensions and weight

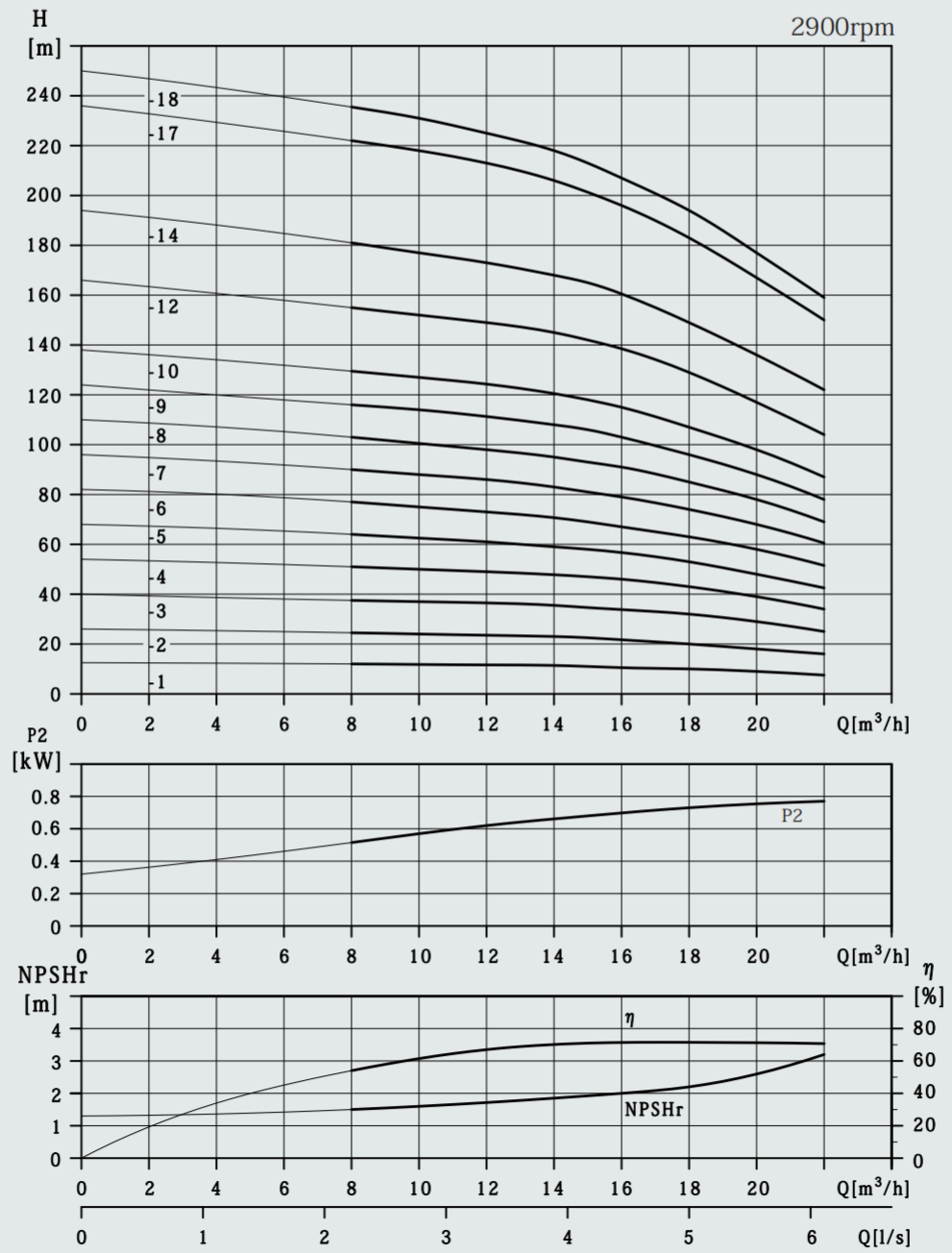
Model	Dimensions (mm)					Weight (kg)
	B1	B2	B1+B2	D1	D2	
12-2	367	292	659	171	119	40
12-3	397	292	689	171	119	45
12-4	437	343	780	196	131	55
12-5	467	343	810	196	131	57
12-6	497	348	845	215	150	66
12-7	547	383	930	257	167	77
12-8	577	383	960	257	167	78
12-9	607	383	990	257	167	80
12-10	637	383	1020	257	167	88
12-12	697	383	1080	257	167	92
12-14	845	501	1346	314	258	162
12-16	905	501	1406	314	258	167
12-18	965	501	1466	314	258	168

※The dimensions will be different for the Ex-proof motor, please contact us for more detail.

NB/NBF15

50Hz

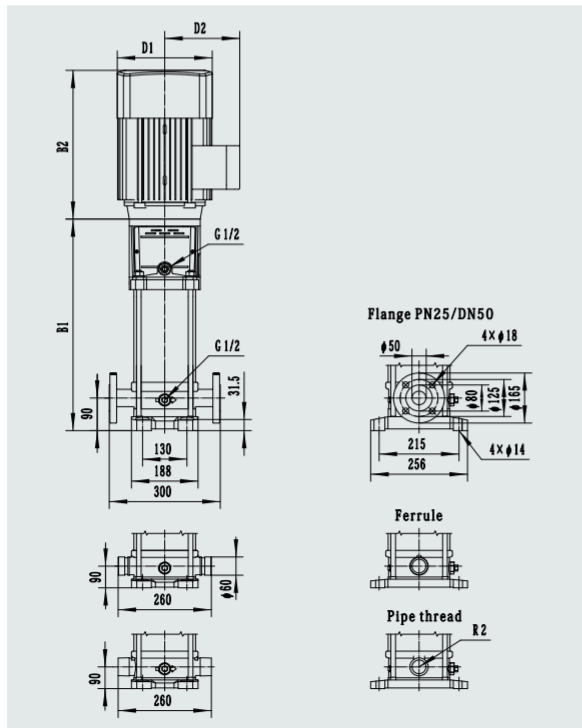
Performance curve



Performance table

Model	Motor (kW)	Q (m³/h)	H (m)									
			0	8	10	12	14	15	16	18	20	22
15-1	1.1		12.5	12	11.8	11.6	11.4	11	10.5	10	9	7.5
15-2	2.2		26	24.5	24	23.5	23	22.5	21.5	20	18	16
15-3	3		40	37.5	37	36.5	35.5	34.5	34	32	29	25
15-4	4		54	51	50	49	47.5	47	46	43	39	34
15-5	4		68	64	62	61	59	58	57	53	48	42.5
15-6	5.5		82	77	75	73	71	69	67	63	58	51.5
15-7	5.5		96	90	88	86	83	81	79	74	68	60.5
15-8	7.5		110	103	100	98	95	93	91	85	78	69
15-9	7.5		124	116	113	111	108	106	103	96	88	78
15-10	11		138	129	126	124	121	118	115	107	98	87
15-12	11		166	155	152	149	145	142	138	129	117	104
15-14	11		194	181	177	173	168	165	160	149	136	122
15-17	15		236	222	218	213	206	201	196	183	167	150
15-18	15		250	235	231	225	218	213	207	194	177	159

Installation drawing



Dimensions and weight

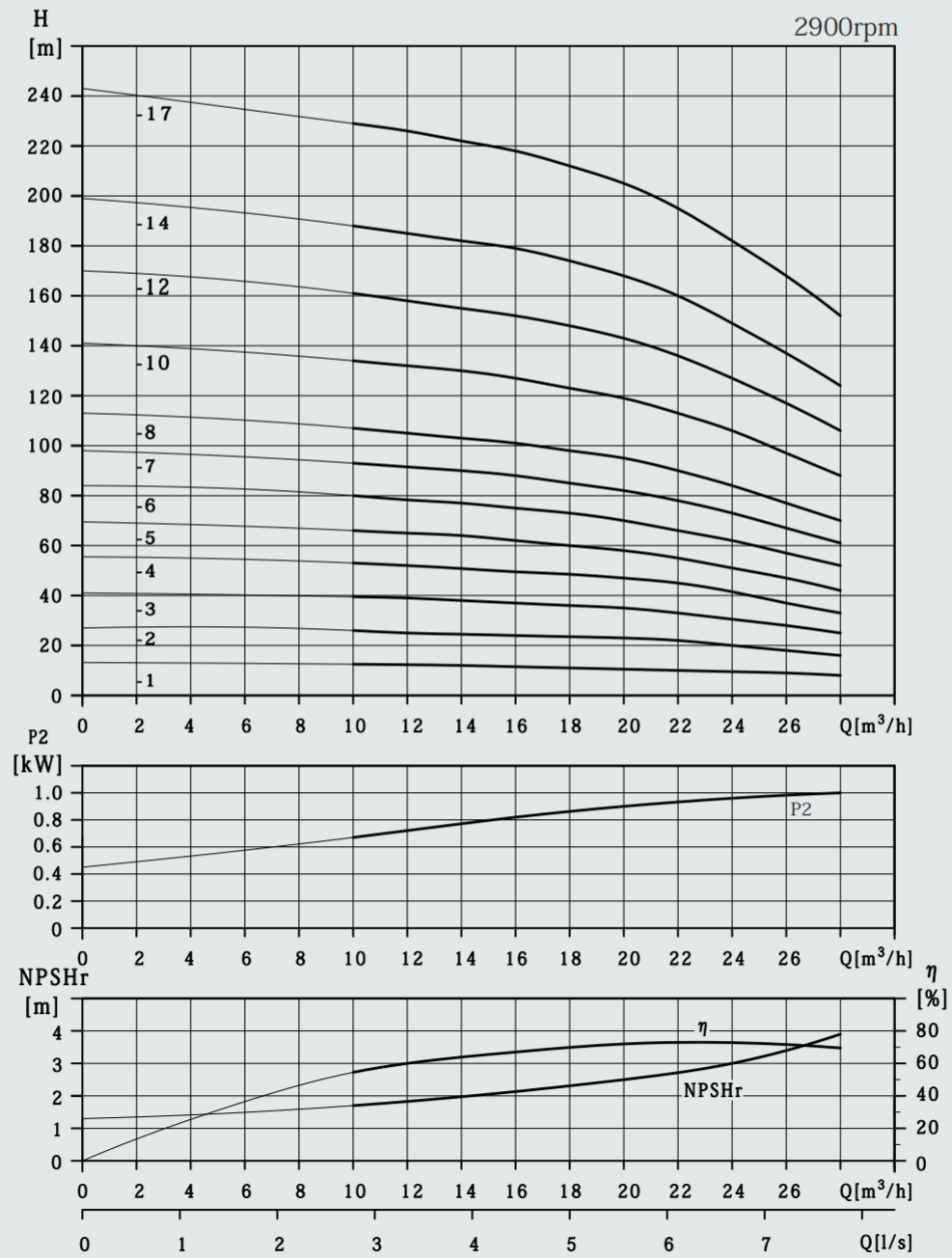
Model	Dimensions (mm)					Weight (kg)
	B1	B2	B1+B2	D1	D2	
15-1	390	248	638	148	108	33
15-2	400	292	692	171	119	42
15-3	455	343	798	196	131	51
15-4	500	348	848	215	150	60
15-5	545	348	893	215	150	62
15-6	668	383	1051	257	167	78
15-7	713	383	1096	257	167	80
15-8	758	383	1141	257	167	86
15-9	803	383	1186	257	167	88
15-10	878	501	1379	314	258	166
15-12	968	501	1469	314	258	170
15-14	1058	501	1559	314	258	173
15-17	1193	501	1694	314	258	186
15-18	1238	501	1739	314	258	188

※The dimensions will be different for the Ex-proof motor, please contact us for more detail.

NB/NBF20

50Hz

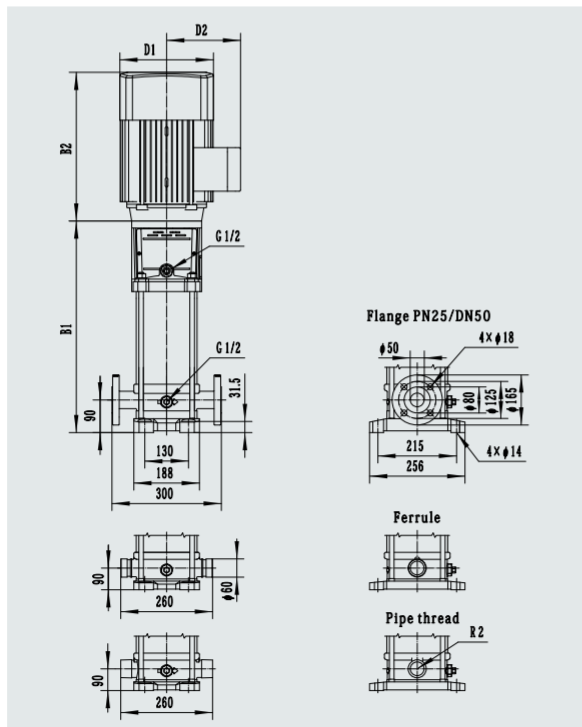
Performance curve



Performance table

Model	Motor (kW)	Q (m³/h)	0	10	12	14	16	18	20	22	24	26	28
20-1	1.1	H (m)	13.2	12.5	12.3	12	11.5	11	10.5	10	9.5	9	8
20-2	2.2		27	26	25	24.5	24	23.5	23	22	20	18	16
20-3	4		41	39.5	39	38	37	36	35	33	30.5	28	25
20-4	5.5		55.5	53	51	50	49	48	47	45	41.5	37	33
20-5	5.5		69.5	66	65	64	62	60	58	55	51	47	42
20-6	7.5		84	80	78	77	75	73	70	66	62	57	52
20-7	7.5		98	93	91	90	88	85	82	78	73	67	61
20-8	11		113	107	105	103	101	98	95	90	84	77	70
20-10	11		141	134	132	130	127	123	119	113	106	97	88
20-12	15		170	161	158	155	152	148	143	136	127	117	106
20-14	15		199	188	185	182	179	174	168	160	149	137	124
20-17	18.5		243	229	225	222	218	212	205	195	182	168	152

Installation drawing



Dimensions and weight

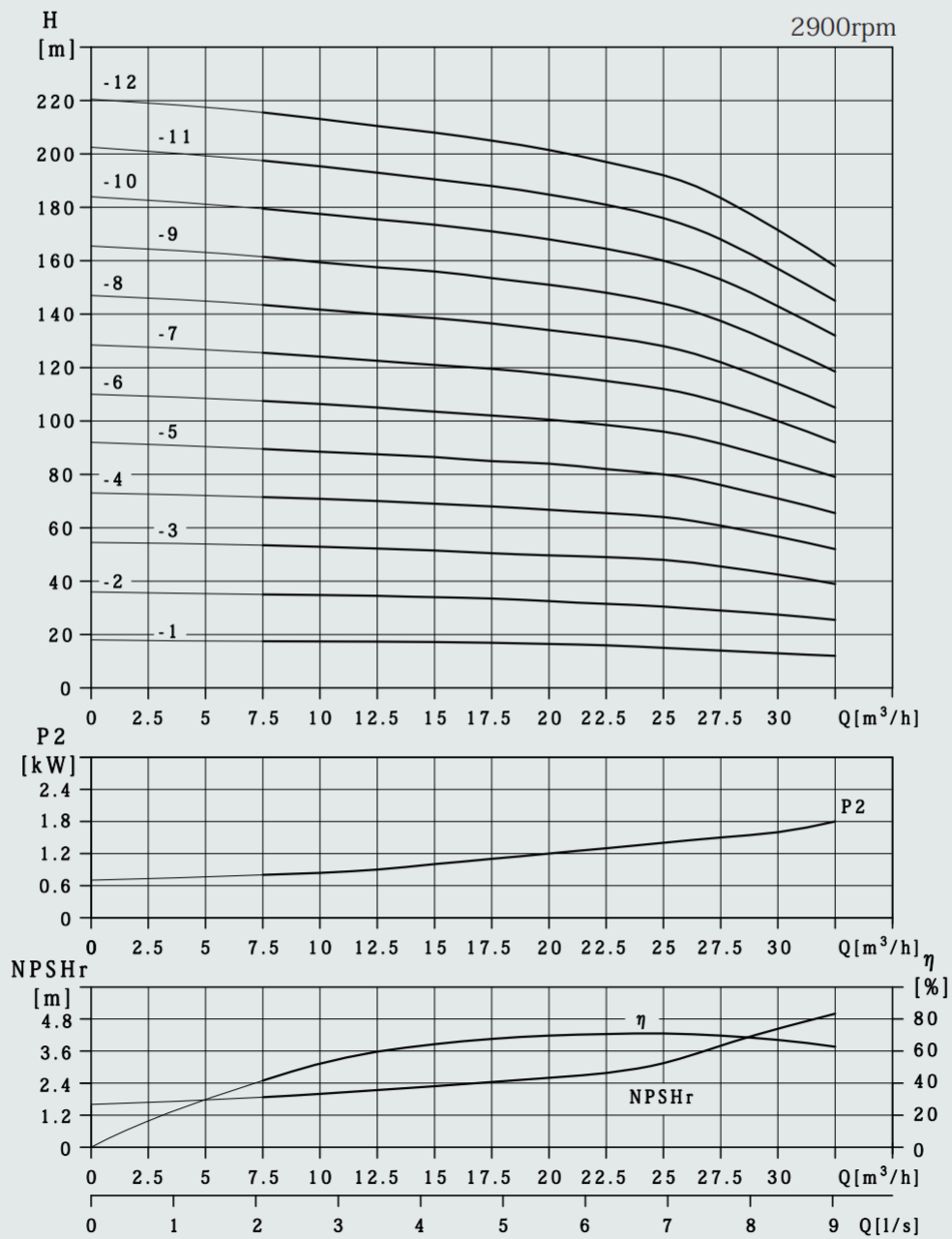
Model	Dimensions (mm)					Weight (kg)
	B1	B2	B1+B2	D1	D2	
20-1	390	248	638	148	108	33
20-2	400	292	692	171	119	42
20-3	455	348	803	215	150	58
20-4	578	383	961	257	167	74
20-5	623	383	1006	257	167	75
20-6	668	383	1051	257	167	84
20-7	713	383	1096	257	167	86
20-8	788	501	1289	314	258	157
20-10	878	501	1379	314	258	162
20-12	968	501	1469	314	258	176
20-14	1058	501	1559	314	258	178
20-17	1193	545	1738	314	258	201

※The dimensions will be different for the Ex-proof motor, please contact us for more detail.

NB/NBF25

50Hz

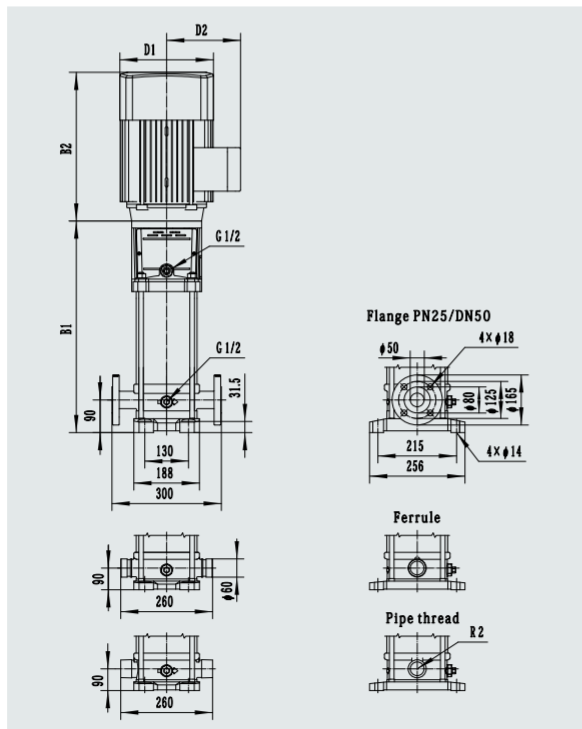
Performance curve



Performance table

Model	Motor (kW)	Q (m³/h)	H (m)										
			0	7.5	12.5	15	17.5	20	22.5	25	27.5	30	32.5
25-1	2.2		18	17.5	17.4	17.2	16.9	16.5	16	15	14	13	12
25-2	4		36	35	34.5	34	33.5	32.5	31.5	30.5	29	27.5	25.5
25-3	5.5		54.5	53.5	52.2	51.5	50.5	49.7	49	48	45.5	42.5	39
25-4	7.5		73	71.5	70	69	68	66.7	65.5	64	60.8	56.7	52
25-5	11		92	89.5	87.5	86.5	85	84	82	80	76	71	65.5
25-6	11		110	107.5	105	103.5	102	100.5	98.5	96	91.5	85.5	79
25-7	15		128.5	125.5	122.5	121	119.5	117.5	115	112	107	100	92
25-8	15		147	143.5	140	138.5	136.5	134	131.5	128	122	114	105
25-9	15		165.5	161.5	157.5	156	153.5	151	148	144	137.5	128.5	118.5
25-10	18.5		184	179.5	175.5	173.5	171	168	164.5	160	153	143	132
25-11	18.5		202.5	197.5	193	190.5	188	184.8	181	176	168	157	145
25-12	22		220.5	215.5	210.5	208	205	201.5	197	192	183.5	171.5	158

Installation drawing



Dimensions and weight

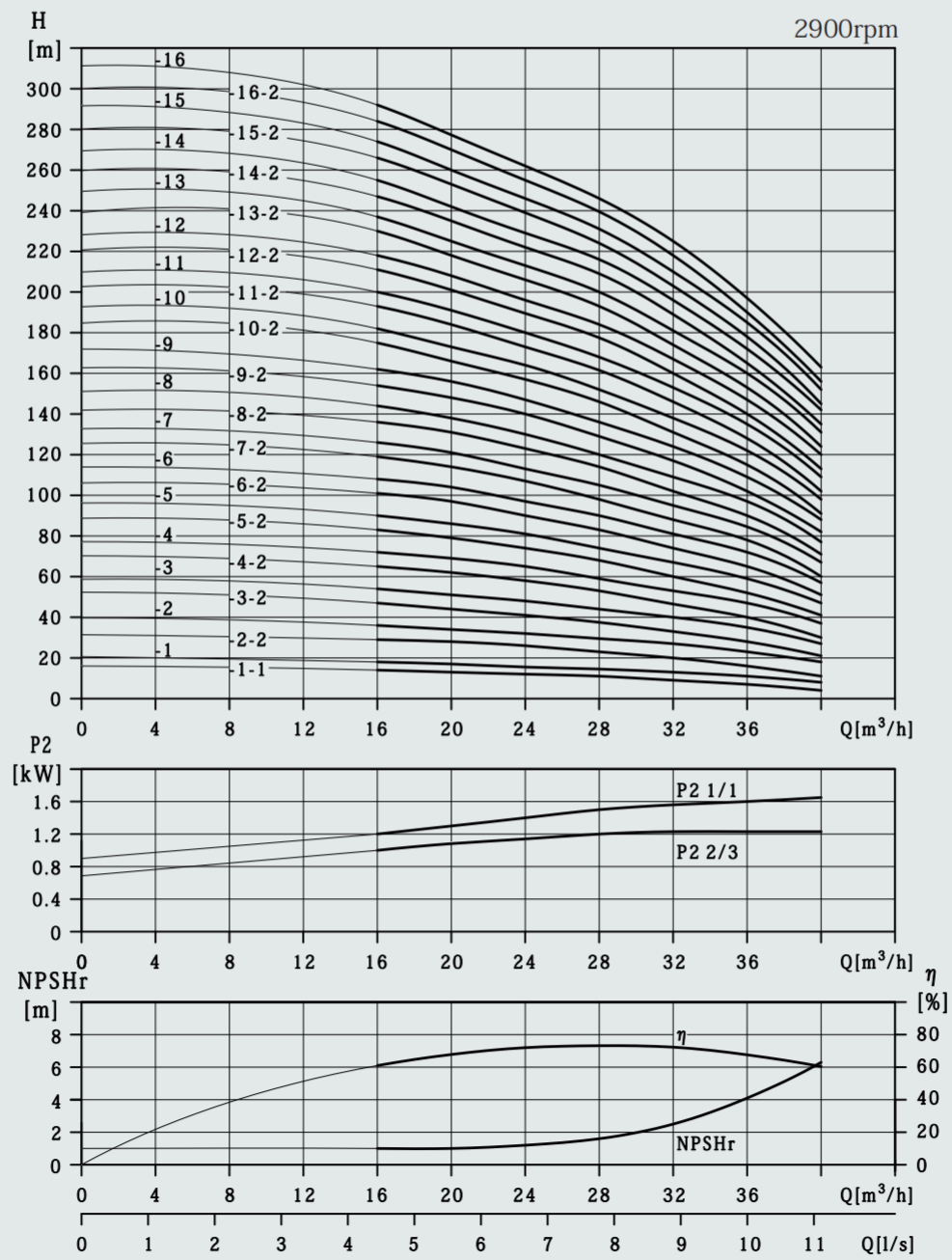
Model	Dimensions (mm)					Weight (kg)
	B1	B2	B1+B2	D1	D2	
25-1	400	292	692	171	119	36
25-2	410	348	758	215	150	57
25-3	533	383	916	257	167	72
25-4	578	383	961	257	167	80
25-5	653	501	1154	314	258	139
25-6	698	501	1199	314	258	140
25-7	743	501	1244	314	258	155
25-8	788	501	1289	314	258	157
25-9	833	501	1334	314	258	172
25-10	878	545	1423	314	258	176
25-11	923	545	1468	314	258	178
25-12	968	579	1547	355	274	231

※The dimensions will be different for the Ex-proof motor, please contact us for more detail.

NB/NBF32

50Hz

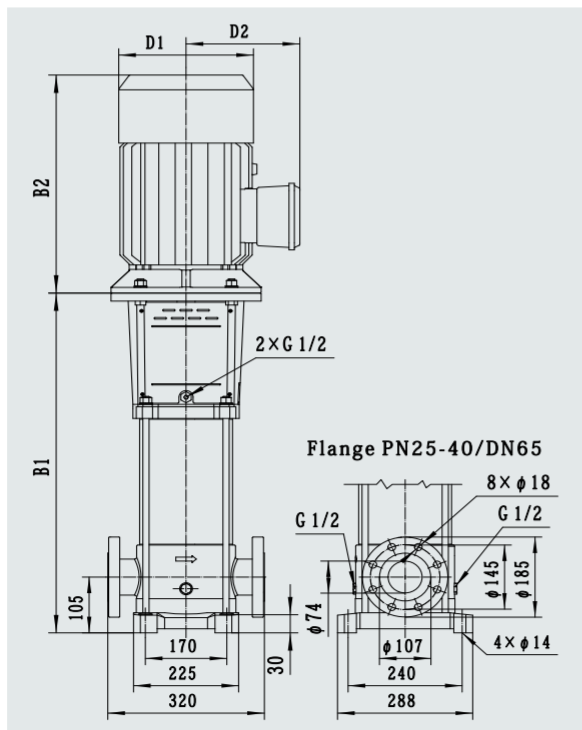
Performance curve



Performance table

Model	Motor (kW)	Q (m³/h)	0	16	20	24	28	32	36	40
32-1-1	1.5	H (m)	15	14	13	12	11	9	7	4
32-1	2.2		20	18	17	15	14	13	11	8
32-2-2	3		32	29	28	26	23	20	16	11
32-2	4		40	36	34	32	29	27	23	18
32-3-2	5.5		51	47	44	41	38	33	28	21
32-3	5.5		58	54	51	48	44	40	35	27
32-4-2	7.5		71	65	62	58	53	46	40	30
32-4	7.5		78	72	69	65	59	53	47	37
32-5-2	11		91	83	79	74	68	60	52	41
32-5	11		98	90	86	81	74	67	59	47
32-6-2	11		107	101	97	90	83	74	65	51
32-6	11		116	108	104	97	90	81	72	57
32-7-2	15		127	119	114	107	98	88	78	60
32-7	15		136	126	121	113	105	95	85	67
32-8-2	15		143	136	131	123	114	102	90	71
32-8	15		153	144	138	130	120	109	97	77
32-9-2	18.5		163	154	148	140	129	117	102	82
32-9	18.5		172	162	156	147	136	124	109	88
32-10-2	18.5		183	175	166	157	146	131	115	91
32-10	18.5		193	182	173	164	152	138	122	98
32-11-2	22		204	193	184	173	164	146	128	102
32-11	22		210	200	191	180	168	153	135	109
32-12-2	22		221	211	201	189	178	160	140	113
32-12	22		230	218	208	196	184	167	147	120
32-13-2	30		244	230	218	206	193	174	153	124
32-13	30		252	237	225	213	200	181	160	131
32-14-2	30		263	247	235	222	210	189	165	135
32-14	30		272	255	242	229	216	196	172	142
32-15-2	30		282	266	253	239	224	203	178	145
32-15	30		292	274	260	246	231	210	185	152
32-16-2	30		302	284	270	255	240	218	190	156
32-16	30		312	292	277	262	246	225	197	163

Installation drawing



Dimensions and weight

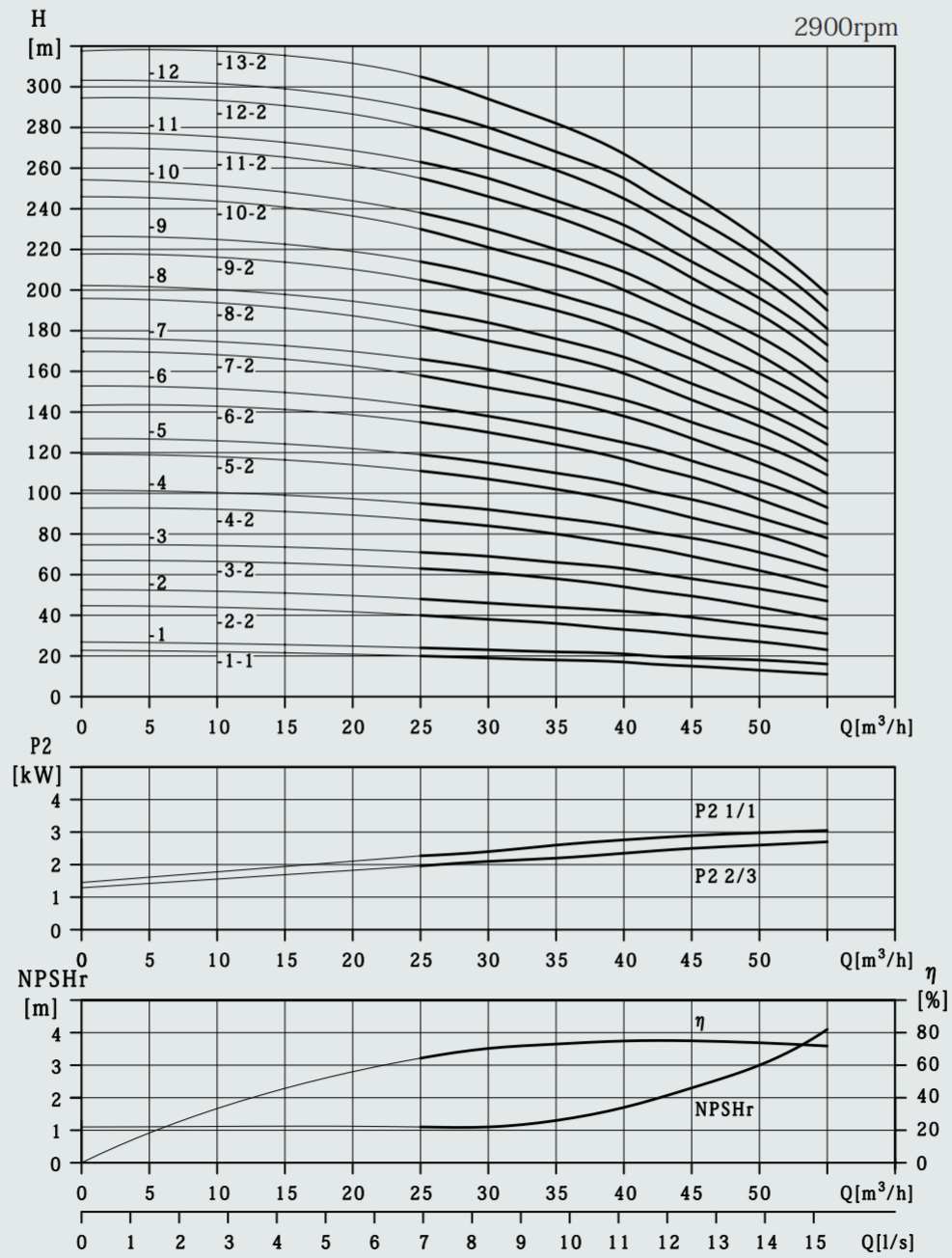
Model	Dimensions (mm)					Weight (kg)
	B1	B2	B1+B2	D1	D2	
32-1-1/32-1	428	292	720	171	119	62/66
32-2-2/32-2	498	343/348	841/846	196/215	131/150	75/83
32-3-2/32-3	659	383	1042	257	167	98
32-4-2/32-4	729	383	1112	257	167	106
32-5-2/32-5	829	501	1330	314	258	185
32-6-2/32-6	899	501	1400	314	258	190
32-7-2/32-7	969	501	1470	314	258	202
32-8-2/32-8	1039	501	1540	314	258	204
32-9-2/32-9	1109	545	1654	314	258	222
32-10-2/32-10	1179	545	1724	314	258	228
32-11-2/32-11	1249	579	1828	355	274	274
32-12-2/32-12	1319	579	1898	355	274	280
32-13-2/32-13	1389	650	2039	397	307	340
32-14-2/32-14	1459	650	2109	397	307	345
32-15-2/32-15	1529	650	2179	397	307	348
32-16-2/32-16	1599	650	2249	397	307	352

※The dimensions will be different for the Ex-proof motor, please contact us for more detail.

NB/NBF42

50Hz

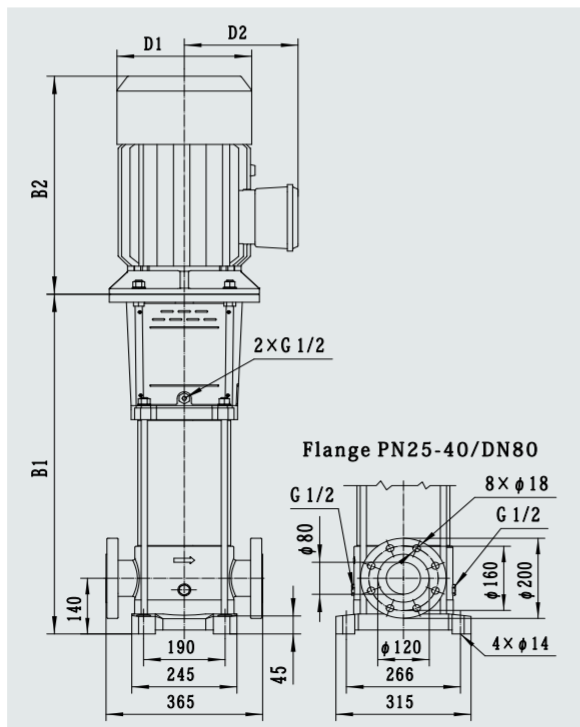
Performance curve



Performance table

Model	Motor (kW)	Q (m³/h)	H (m)								
			0	25	30	35	40	42	45	50	55
42-1-1	3		22	20	19	18	17	16	15	13	11
42-1	4		27	24	23	22	21	20	19	18	16
42-2-2	5.5		43	40	38	36	33	32	30	27	23
42-2	7.5		52	48	46	44	42	41	39	35	31
42-3-2	11		66	63	61	58	54	52	50	44	38
42-3	11		75	71	69	66	63	61	58	53	47
42-4-2	15		92	87	84	80	75	73	69	62	54
42-4	15		101	95	92	88	84	81	78	71	62
42-5-2	18.5		119	111	107	102	96	93	88	80	69
42-5	18.5		126	119	115	110	105	101	97	88	78
42-6-2	22		143	135	130	124	117	113	108	97	85
42-6	22		151	143	138	132	125	122	116	106	93
42-7-2	30		168	158	152	146	138	134	127	115	100
42-7	30		176	166	161	154	146	142	135	124	109
42-8-2	30		193	182	175	168	159	154	146	133	116
42-8	30		202	190	184	176	167	162	154	141	124
42-9-2	30		215	205	198	190	180	174	166	150	132
42-9	37		224	214	207	198	188	183	174	159	140
42-10-2	37		240	230	221	212	200	194	185	168	147
42-10	37		248	238	230	220	209	203	193	177	155
42-11-2	45		265	255	246	236	223	217	206	188	165
42-11	45		280	263	255	244	232	225	214	196	173
42-12-2	45		294	280	270	259	245	238	226	206	181
42-12	45		303	289	280	268	255	247	236	216	190
42-13-2	45		317	305	294	282	267	259	247	225	198

Installation drawing



Dimensions and weight

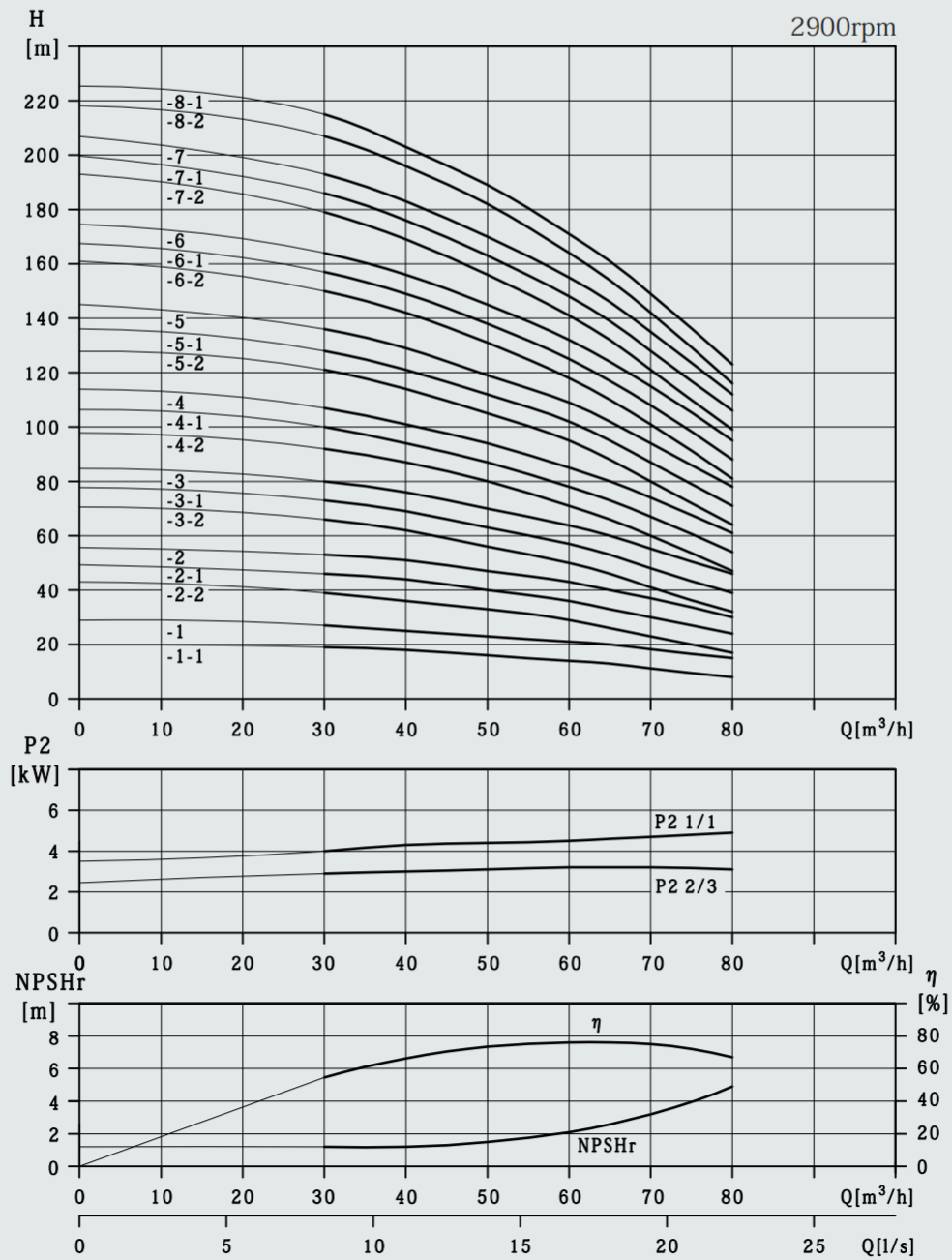
Model	Dimensions (mm)					Weight (kg)
	B1	B2	B1+B2	D1	D2	
42-1-1						
42-1	489	343/348	832/837	196/215	131/150	83/90
42-2-2						
42-2	660	383	1043	257	167	105/110
42-3-2						
42-3	770	501	1271	314	258	186
42-4-2						
42-4	850	501	1351	314	258	202
42-5-2						
42-5	930	545	1475	314	258	223
42-6-2						
42-6	1010	579	1589	355	274	264
42-7-2						
42-7	1090	650	1740	397	307	323
42-8-2						
42-8	1170	650	1820	397	307	327
42-9-2						
42-9	1250	650	1900	397	307	331
42-10-2						
42-10	1330	650	1980	397	307	357
42-11-2						
42-11	1410	697	2107	446	330	427
42-12-2						
42-12	1490	697	2187	446	330	435
42-13-2						
	1570	697	2267	446	330	440

※The dimensions will be different for the Ex-proof motor, please contact us for more detail.

NB/NBF65

50Hz

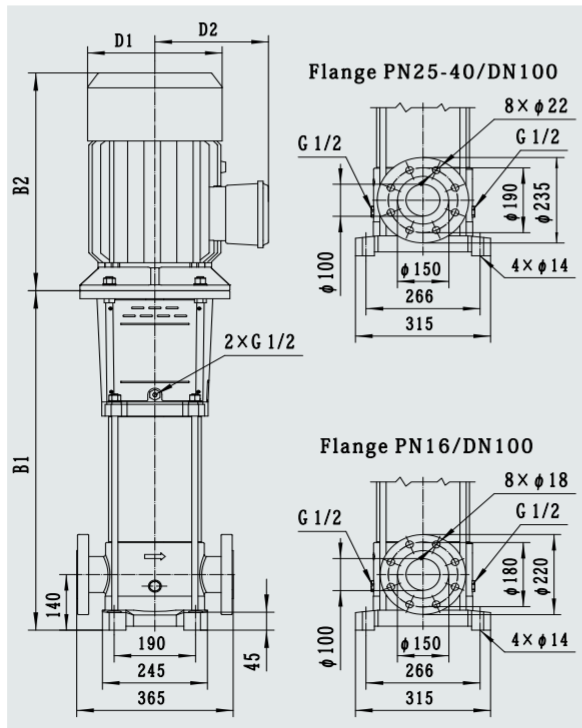
Performance curve



Performance table

Model	Motor (kW)	Q (m³/h)	0	30	40	50	60	65	70	80
65-1-1	4	H (m)	20	19	18	16	14	13	11	8
65-1	5.5		30	27	25	23	21	20	18	15
65-2-2	7.5		43	39	36	33	29	26	23	17
65-2-1	11		50	46	44	40	36	33	30	24
65-2	11		58	53	51	47	43	40	37	30
65-3-2	15		72	66	62	56	50	46	41	32
65-3-1	15		79	73	69	63	57	53	48	39
65-3	18.5		86	80	76	70	64	60	55	46
65-4-2	18.5		98	92	87	80	71	66	60	47
65-4-1	22		107	100	94	87	78	73	67	54
65-4	22		115	107	101	94	85	80	74	61
65-5-2	30		128	121	114	105	95	88	80	64
65-5-1	30		137	128	121	112	102	95	87	71
65-5	30		145	136	129	119	109	102	94	78
65-6-2	30		159	150	142	131	118	110	101	81
65-6-1	37		167	157	149	138	125	117	108	88
65-6	37		175	164	156	145	132	124	115	95
65-7-2	37		190	179	169	156	141	132	121	99
65-7-1	37		198	186	176	163	148	139	128	106
65-7	45		206	193	183	170	155	146	135	112
65-8-2	45		217	207	196	182	164	154	142	116
65-8-1	45		225	215	203	189	171	161	149	123

Installation drawing



※PN25-40/DN100 flange is optional

Dimensions and weight

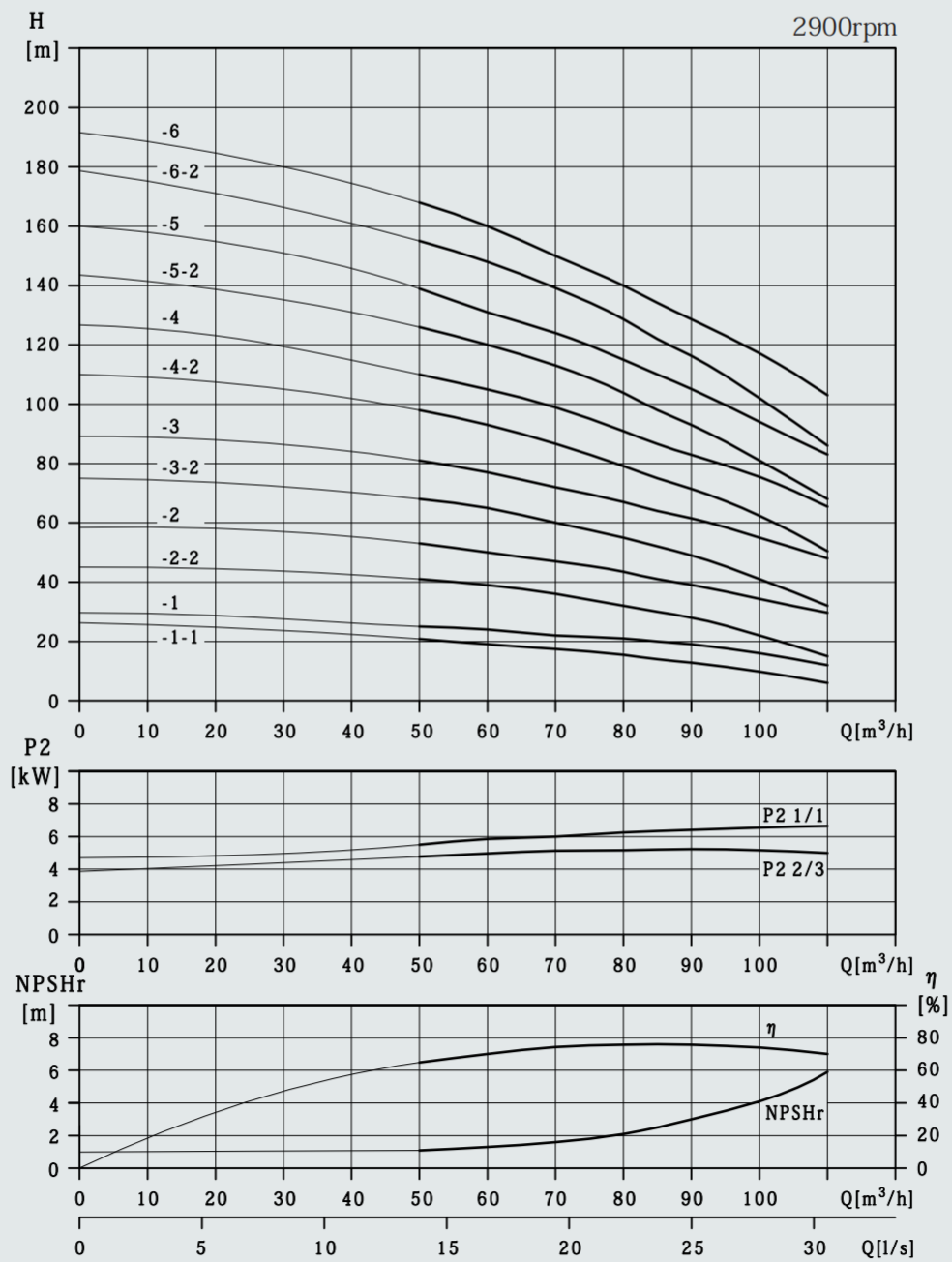
Model	Dimensions (mm)					Weight (kg)
	B1	B2	B1+B2	D1	D2	
65-1-1	491	348	839	215	150	97
65-1	582	383	965	257	167	109
65-2-2	665	383	1048	257	167	114
65-2-1	695	501	1196	314	258	195
65-2	695	501	1196	314	258	195
65-3-2	778	501	1279	314	258	204
65-3-1	778	501	1279	314	258	205
65-3	778	545	1323	314	258	230
65-4-2	861	545	1406	314	258	237
65-4-1	861	579	1440	355	274	270
65-4	861	579	1440	355	274	270
65-5-2	944	650	1594	397	307	332
65-5-1	944	650	1594	397	307	332
65-5	944	650	1594	397	307	333
65-6-2	1027	650	1677	397	307	338
65-6-1	1027	650	1677	397	307	363
65-6	1027	650	1677	397	307	363
65-7-2	1110	650	1760	397	307	368
65-7-1	1110	650	1760	397	307	368
65-7	1110	697	1807	446	330	435
65-8-2	1193	697	1890	446	330	438
65-8-1	1193	697	1890	446	330	438

※The dimensions will be different for the Ex-proof motor, please contact us for more detail.

NB/NBF85

50Hz

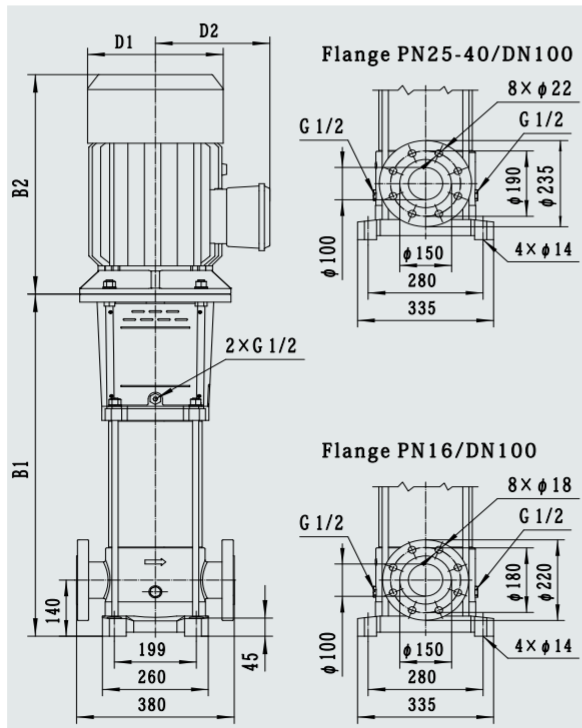
Performance curve



Performance table

Model	Motor (kW)	Q (m³/h)	H (m)								
			0	50	60	70	80	85	90	100	110
85-1-1	5.5		26	22	19	17	16	14	13	10	6
85-1	7.5		32	25	24	22	21	20	19	16	12
85-2-2	11		46	41	39	36	32	30	28	22	15
85-2	15		65	53	50	47	44	41	40	36	30
85-3-2	18.5		75	68	65	60	55	52	49	41	32
85-3	22		94	81	77	72	67	64	62	55	48
85-4-2	30		113	98	93	87	80	75	72	62	50
85-4	30		127	110	105	100	92	86	84	76	66
85-5-2	37		147	126	120	113	104	98	93	81	68
85-5	37		160	139	131	124	115	110	106	94	83
85-6-2	45		178	155	148	139	129	122	117	102	86
85-6	45		195	168	160	150	141	134	130	117	103

Installation drawing



※PN25-40/DN100 flange is optional

Dimensions and weight

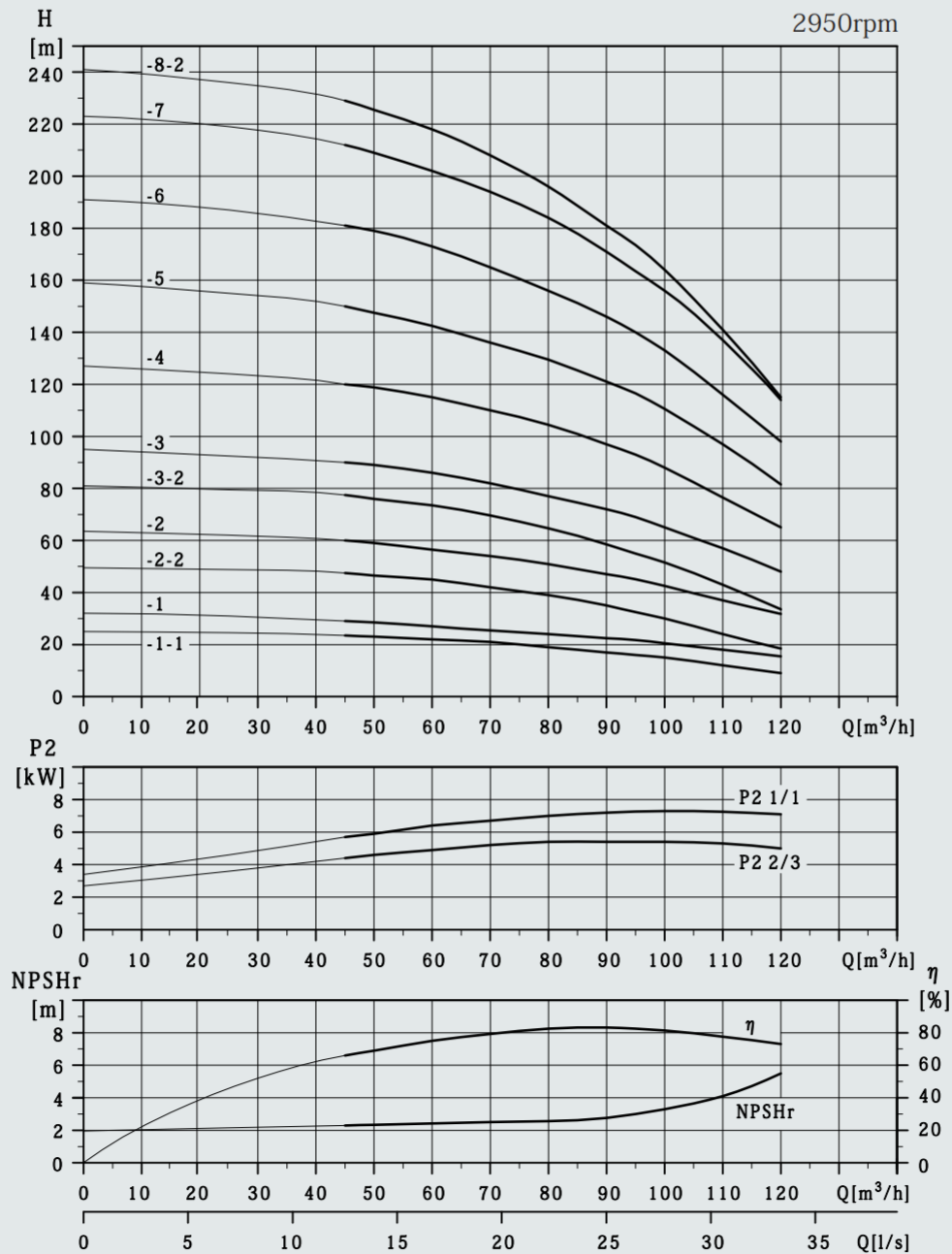
Model	Dimensions (mm)					Weight (kg)
	B1	B2	B1+B2	D1	D2	
85-1-1	592	383	975	257	167	108
85-1	592	383	975	257	167	114
85-2-2	714	501	1215	314	258	184
85-2	714	501	1215	314	258	200
85-3-2	806	545	1351	314	258	223
85-3	806	579	1385	355	274	266
85-4-2	898	650	1548	397	307	326
85-4	898	650	1548	397	307	326
85-5-2	990	650	1640	397	307	350
85-5	990	650	1640	397	307	350
85-6-2	1082	697	1779	446	330	426
85-6	1082	697	1779	446	330	426

※The dimensions will be different for the Ex-proof motor, please contact us for more detail.

NB/NBF95

50Hz

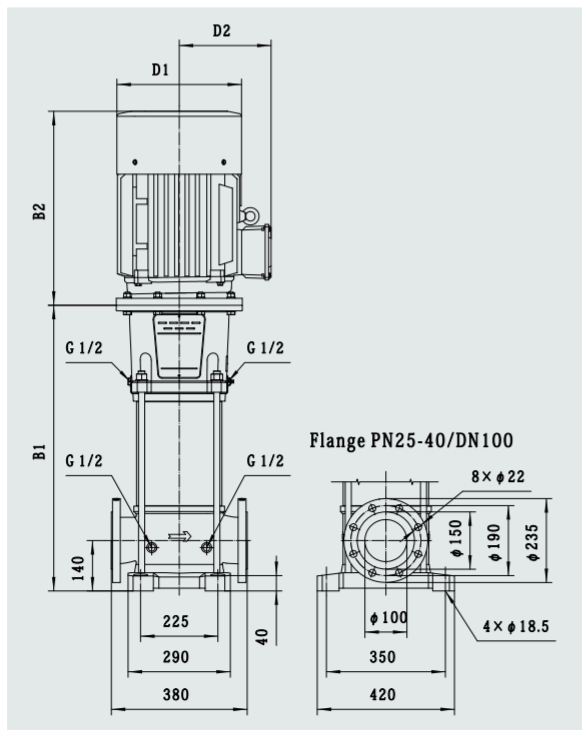
Performance curve



Performance table

Model	Motor (kW)	Q (m³/h)	H (m)										
			0	45	50	60	70	80	90	95	100	110	120
95-1-1	5.5		25	23.5	23	22	21	19	17	16	15	12	9
95-1	7.5		32	29	28.5	26.5	25	24	23	22	20.5	18	15.5
95-2-2	11		49.5	47.5	46.5	45	42	39	35	32.5	30	24	18.5
95-2	15		63.5	60	59	56.5	54	51.5	47	45.5	42.5	37	31.8
95-3-2	18.5		81	77.5	76	73.5	69.6	64.7	58.5	55	51.5	43	33.5
95-3	22		95	90	89	86	82	77	72	69	65	57	48
95-4	30		127	120	118	115	110	104.5	97	93	88	76.5	65
95-5	37		159	150	147.5	142.5	136	130	121	116.5	110.5	97	81.5
95-6	45		191	181	178	173	165	156	146	140	133	116	98
95-7	55		223	212	209	202	194	184	171	163.5	156	137	114
95-8-2	55		241	229	225.5	218	208	196	181	173.5	164	141	115

Installation drawing



Dimensions and weight

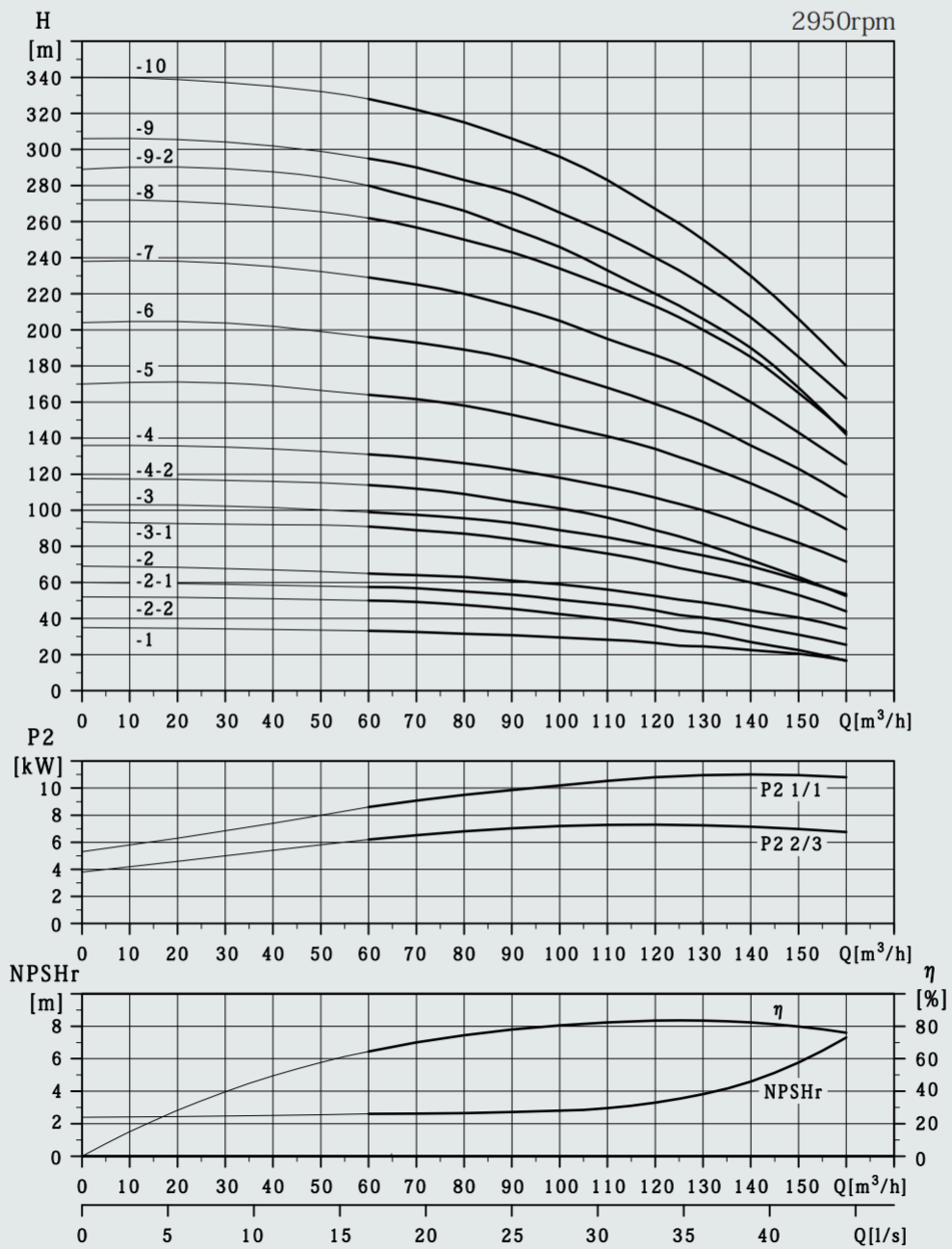
Model	Dimensions (mm)					Weight (kg)
	B1	B2	B1+B2	D1	D2	
95-1-1	641	383	1024	257	167	140
95-1	641	383	1024	257	167	152
95-2-2	770	501	1271	314	258	220
95-2	770	501	1271	314	258	236
95-3-2	869	545	1414	314	258	249
95-3	869	579	1448	355	274	305
95-4	968	650	1618	397	307	375
95-5	1067	650	1717	397	307	400
95-6	1166	697	1863	446	330	506
95-7	1307	770	2077	485	369	575
95-8-2	1406	770	2176	485	369	581

※The dimensions will be different for the Ex-proof motor, please contact us for more detail.

NB/NBF125

50Hz

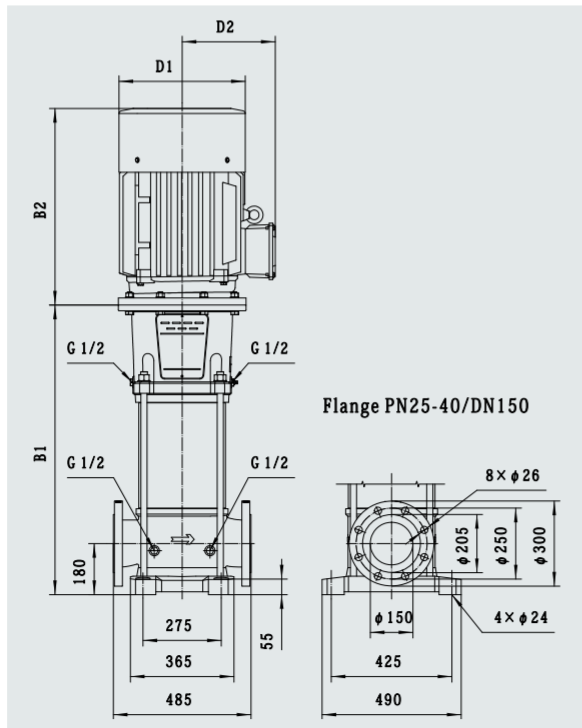
Performance curve



Performance table

Model	Motor (kW)	Q (m³/h)	H (m)												
			0	60	70	80	90	100	110	120	125	130	140	150	160
125-1	11		35	33	32.6	31.5	30.8	29.5	28.3	26.5	25	24.5	22.5	20.5	16.8
125-2-2	15		52	50	49.2	47.5	45.5	42.5	39.6	36	33.5	32	27	22.5	16.5
125-2-1	18.5		60	57.5	56.8	55	53.3	50.5	48	44.5	42	40.5	36	31	25.5
125-2	22		69	65	64	63	61	59	56	52.5	50.5	49	44.5	40.5	34.5
125-3-1	30		93.5	91	89	87	84	80	76	71	68	65.5	60	53	44
125-3	37		103	98	97.5	95.5	93	89	85	80	77.5	75	69	61.5	53.5
125-4-2	37		117.5	114	112	109	105	101	96	89	85.5	81.5	72.5	63	52.5
125-4	45		136	131	129	126	122.5	118	113	107	103.5	100	91	82	71.5
125-5	55		170	164	162	158	153	147	141	134	129.5	125	115	103	89.5
125-6	75		204	196	193	189	184	176	168	159	155	149	136	123	107.5
125-7	75		238	229	226	220	213	205	195	186	181	174.5	160	143	125.5
125-8	90		272	262	255	250	243	234	224	213	207	200	185	165	143.5
125-9-2	90		289	280	273	266	256	246	233	220	214	206	190	168	142
125-9	110		306	295	290	283	276	265	255	240	233	225	207	185	162
125-10	110		340	328	322	315	306	296	283	267	259	250	230	206	180

Installation drawing



Dimensions and weight

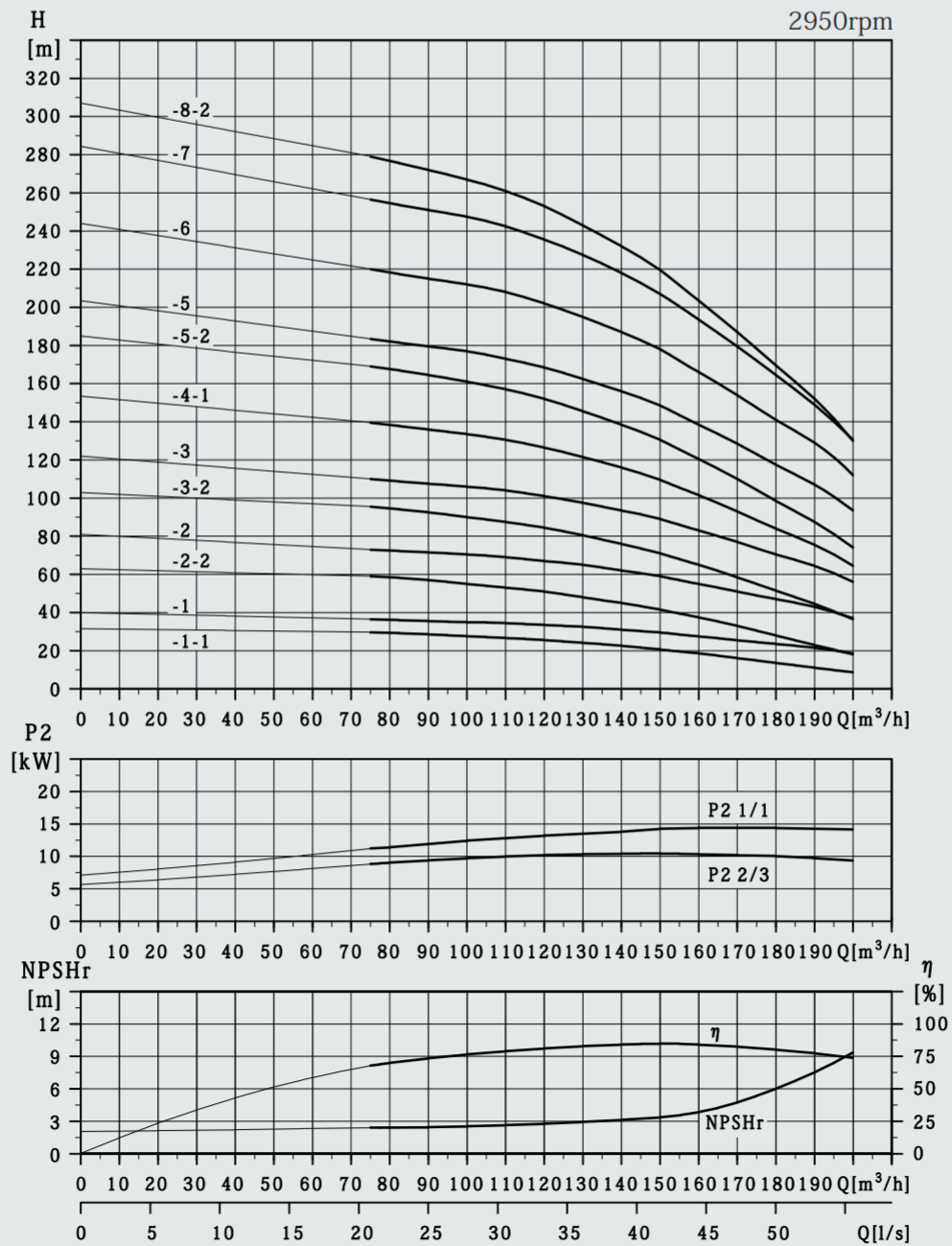
Model	Dimensions (mm)					Weight (kg)
	B1	B2	B1+B2	D1	D2	
125-1	777	501	1278	314	258	270
125-2-2	899	501	1400	314	258	295
125-2-1	899	545	1444	314	258	305
125-2	899	579	1478	355	274	360
125-3-1	1021	650	1671	397	307	430
125-3	1021	650	1671	397	307	450
125-4-2	1143	650	1793	397	307	460
125-4	1143	697	1840	446	330	560
125-5	1307	770	2077	485	369	630
125-6	1429	835	2264	547	398	785
125-7	1551	835	2386	547	398	795
125-8	1673	885	2558	547	398	825
125-9-2	1795	885	2680	547	398	840
125-9	1795	1060	2855	624	526	1265
125-10	1917	1060	2977	624	526	1275

※The dimensions will be different for the Ex-proof motor, please contact us for more detail.

NB/NBF155

50Hz

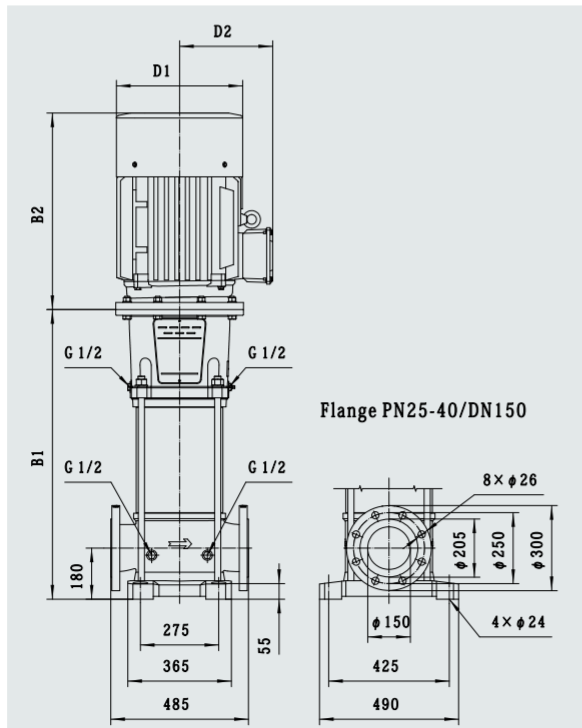
Performance curve



Performance table

Model	Motor (kW)	Q (m³/h)	H (m)														
			0	75	90	100	110	120	130	140	150	155	160	170	180	190	200
155-1-1	11		31.5	29.5	28.5	27.5	26.5	25.5	24	22.5	20.5	19.5	18.5	16	13.5	11	8.5
155-1	15		40	36.5	35.5	35	34.5	33.5	32.5	31	29.5	28.5	27.5	25.5	23.5	21.5	18.5
155-2-2	22		63	59	57	55	53	51	48	45	41.5	39.5	37.5	33	28	23	18
155-2	30		81	73	71.5	70.5	69	67	65	62	59	57	55	51	47	43	37
155-3-2	37		103	95.5	92.5	90	87.5	84.5	80.5	76	71	68	65	58.5	51.5	44.5	36.5
155-3	45		122	110	107.5	106	104	101	97.5	93.5	89	86	83	77	70.5	64.5	56
155-4-1	55		153.5	139.5	136	133.5	130.5	126.5	121.5	116	109.5	105.5	101.5	93	84	75.5	64.5
155-5-2	75		185	169	164.5	161	157	152	145.5	138.5	130.5	125.5	120.5	110	98.5	87.5	74
155-5	75		203.5	183.5	179.5	177	173.5	168.5	162.5	156	148.5	143.5	138.5	128.5	117.5	107	93.5
155-6	90		244	220	215	212	208	202	195	187	178	172	166	154	141	129	112
155-7	110		284.5	256.5	251	247.5	242.5	235.5	227.5	218	207.5	200.5	193.5	179.5	164.5	150.5	130.5
155-8-2	110		307	279	272	267	261	253	243	232	219.5	211.5	203.5	187	169.5	152	130

Installation drawing



Dimensions and weight

Model	Dimensions (mm)					Weight (kg)
	B1	B2	B1+B2	D1	D2	
155-1-1	777	501	1278	314	258	270
155-1	777	501	1278	314	258	285
155-2-2	899	579	1478	355	274	355
155-2	899	650	1549	397	307	415
155-3-2	1021	650	1671	397	307	450
155-3	1021	697	1718	446	330	550
155-4-1	1185	770	1955	485	369	615
155-5-2	1307	835	2142	547	398	770
155-5	1307	835	2142	547	398	775
155-6	1429	885	2314	547	398	805
155-7	1551	1060	2611	624	526	1245
155-8-2	1673	1060	2733	624	526	1255

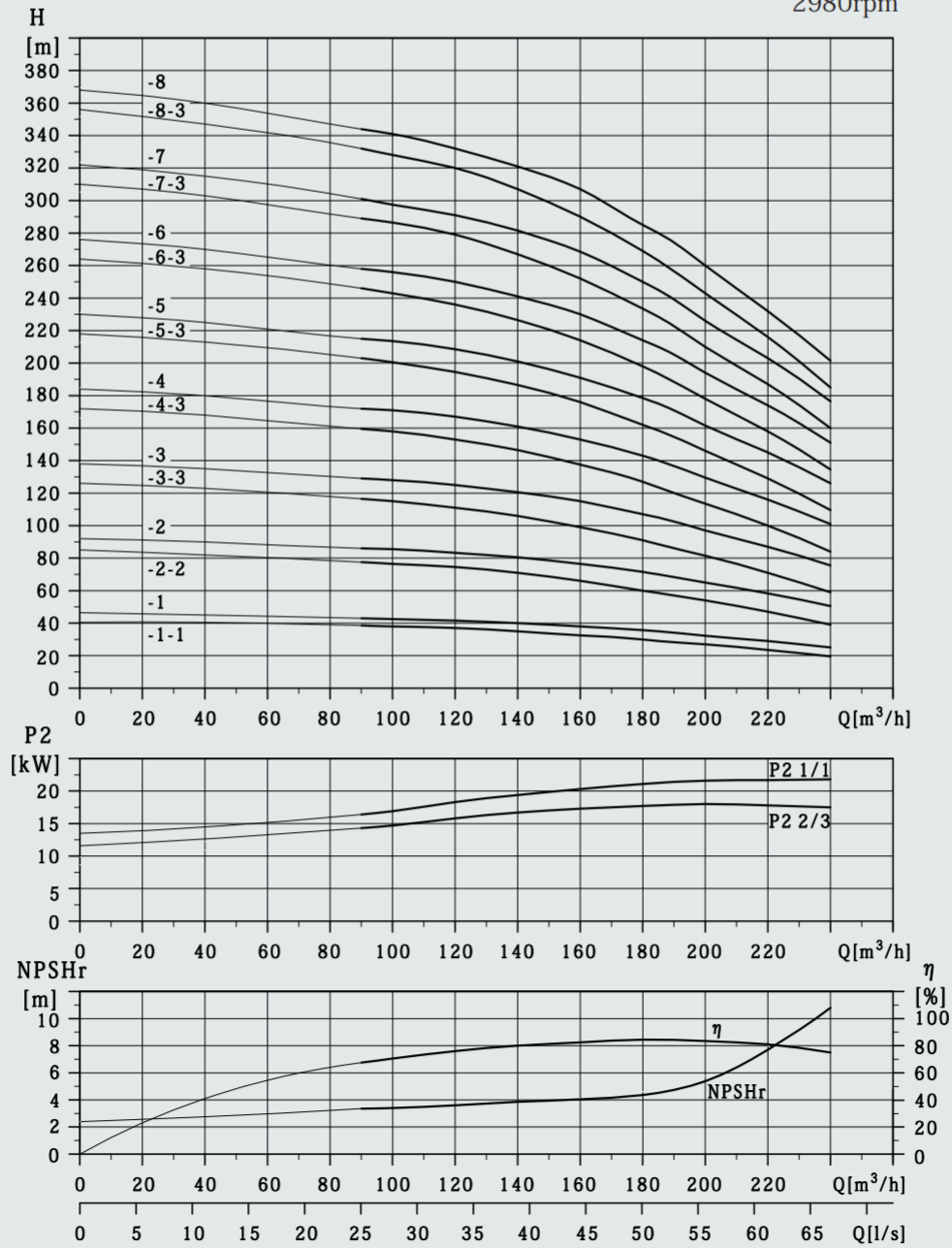
※The dimensions will be different for the Ex-proof motor, please contact us for more detail.

NB/NBF185

50Hz

Performance curve

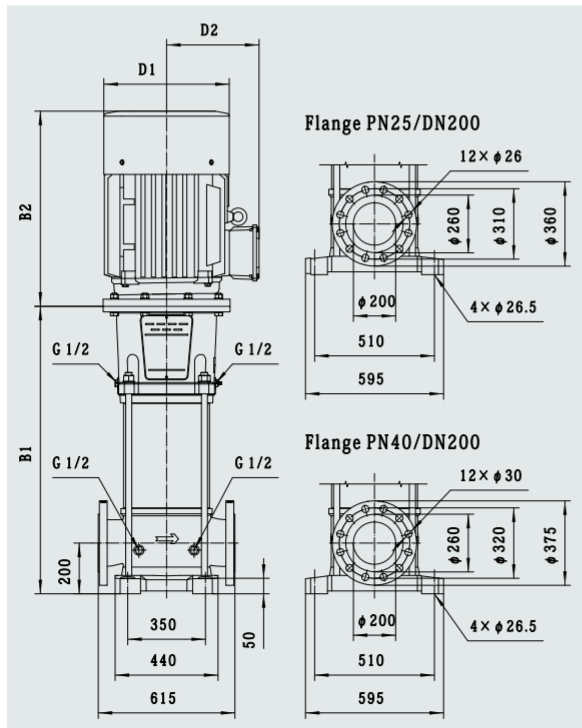
2980rpm



Performance table

Model	Motor (kW)	Q (m³/h)	0	90	100	120	140	160	180	185	200	220	240
185-1-1	18.5	H (m)	42	38.5	38	37	35	32.5	30	29	27	23.5	19.5
185-1	22		46.5	43	42.5	41.5	40	38	35.7	35	32.2	29	25
185-2-2	37		85	77.5	76.5	74.5	71	66	60	58.5	54	47	39
185-2	45		92	86	85.5	83.3	80.5	76.5	71.5	70	65	58.3	50.5
185-3-3	55		126	116.5	115	111	106	99	91	88.5	81.5	71	59
185-3	75		138	129	128	125	120.5	115	107	105	97	87	75.5
185-4-3	75		172	159.5	158	153	146.5	137.5	127	123.5	113.5	100	84
185-4	90		184	172	171	167	161	153	143	140	129.5	116	101
185-5-3	110		218	203	200.5	194.5	186.5	176	162	158.5	146	129	109.5
185-5	110		230	215	213.5	208.5	201	191	178.5	175	161.6	145	126
185-6-3	132		264	246	243	236	226.5	214	198	193.5	178	158	134.5
185-6	132		276	258	256	250	241	230	214	210	194	174	151
185-7-3	160		310	289	286.5	279	267	252	233.5	228.5	210	187	160
185-7	160		322	301	297.5	291	281.5	268.5	250	245	226	203	176.5
185-8-3	200		356	332	328	320	307	290	269	263	243	216	185
185-8	200		368	344	341	332	321	307	285	280	260	232	201.5

Installation drawing



※185-1-1 ~ 185-5 standard flange is PN25, PN40 flange is optional
185-6-3 ~ 185-8 standard flange is PN40

Dimensions and weight

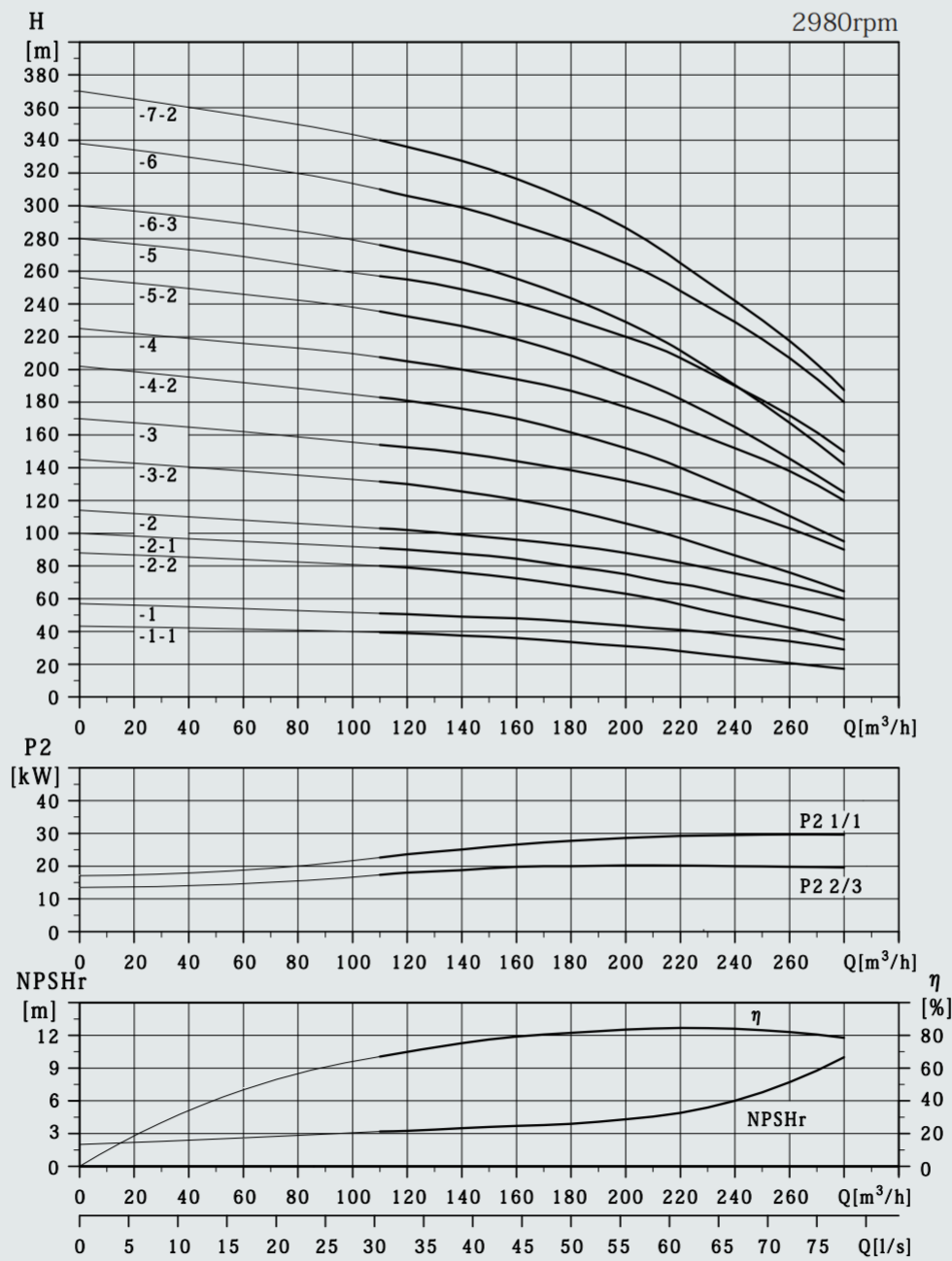
Model	Dimensions (mm)					Weight (kg)
	B1	B2	B1+B2	D1	D2	
185-1-1	841	545	1386	314	258	395
185-1	841	579	1420	355	274	410
185-2-2	969	650	1619	397	307	550
185-2	969	697	1666	446	330	650
185-3-3	1139	770	1909	485	369	770
185-3	1139	835	1974	547	398	890
185-4-3	1267	835	2102	547	398	910
185-4	1267	885	2152	547	398	1000
185-5-3	1395	1060	2455	624	526	1210
185-5	1395	1060	2455	624	526	1210
185-6-3	1523	1148	2671	624	526	1390
185-6	1523	1148	2671	624	526	1390
185-7-3	1651	1148	2799	624	526	1500
185-7	1651	1148	2799	624	526	1500
185-8-3	1779	1148	2927	624	526	1700
185-8	1779	1148	2927	624	526	1700

※The dimensions will be different for the Ex-proof motor, please contact us for more detail.

NB/NBF215

50Hz

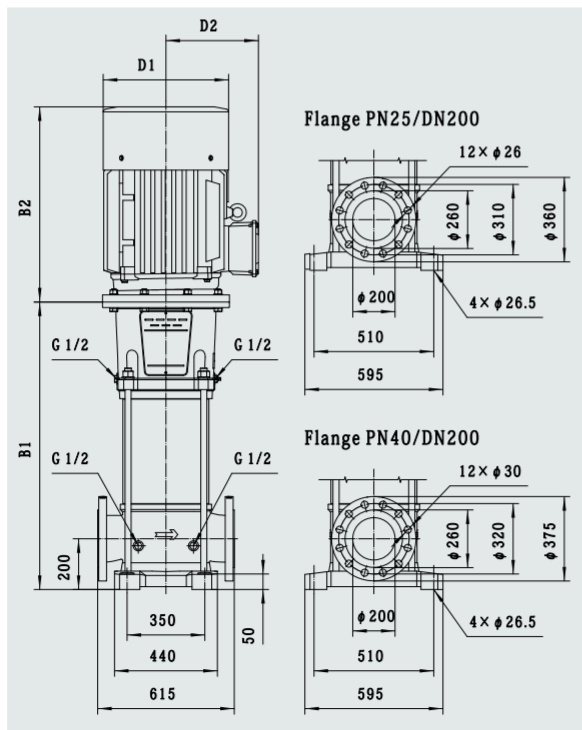
Performance curve



Performance table

Model	Motor (kW)	Q (m³/h)	0	110	120	140	160	180	200	215	220	240	260	280
215-1-1	22	H (m)	43.2	39.5	39	37.5	36	33.5	31	29	28	24.3	20.7	17.2
215-1	37		57	51	50.5	49	48	46	43.5	41.5	41	37.5	34	29
215-2-2	45		88	80	79	76	72.5	68	63	58.5	56.5	49	42.3	35
215-2-1	55		100	91	90	87.5	84.5	79.5	75	70	69	62	55	47
215-2	75		114	103	102	99	96	92.5	88	83.5	82	75.5	68.5	60
215-3-2	75		145	131.5	130	125.5	120.5	114	106	99.5	97	86.5	76	64.5
215-3	90		170	154	152.5	149	144	138.5	132	126	123.5	114	103	90
215-4-2	110		202	183	181	176	170	161.5	152	143.5	140	126	110.5	95
215-4	132		225	207.5	205	200	194	187	177	168.5	165	152	138	120
215-5-2	132		256	235.5	232.5	226.5	218.5	208.5	196	186	182	165	145.5	125
215-5	160		280	257	255	249	241	231	220	211	207	190	172	150
215-6-3	160		300	276	272.5	265.5	255.5	243.5	229	216.5	211.5	190.5	167.5	142
215-6	200		338	310	306	299	289	278	265	253	248	229	207	180
215-7-2	200		370	340	336	327.5	316.5	303	286.5	271	265	242	217.5	187.5

Installation drawing



※215-1-1 ~ 215-4 standard flange is PN25, PN40 flange is optional
215-5-2 ~ 215-7-2 standard flange is PN40

Dimensions and weight

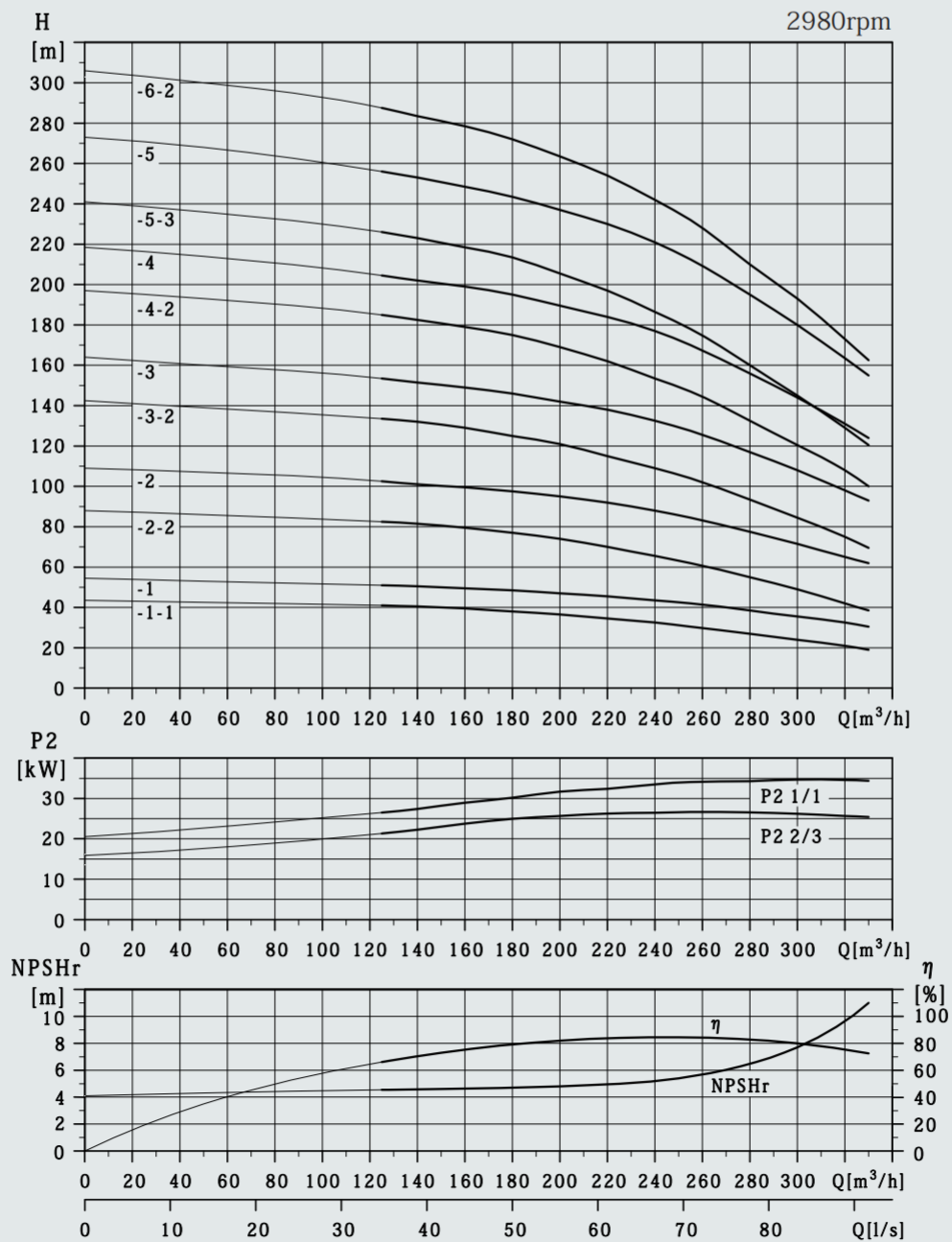
Model	Dimensions (mm)					Weight (kg)
	B1	B2	B1+B2	D1	D2	
215-1-1	841	579	1420	355	274	410
215-1	841	650	1491	397	307	540
215-2-2	969	697	1666	446	330	660
215-2-1	1011	770	1781	485	369	770
215-2	1011	835	1846	547	398	880
215-3-2	1139	835	1974	547	398	890
215-3	1139	885	2024	547	398	990
215-4-2	1267	1060	2327	624	526	1200
215-4	1267	1148	2415	624	526	1350
215-5-2	1395	1148	2543	624	526	1370
215-5	1395	1148	2543	624	526	1470
215-6-3	1523	1148	2671	624	526	1490
215-6	1523	1148	2671	624	526	1660
215-7-2	1651	1148	2799	624	526	1670

※The dimensions will be different for the Ex-proof motor, please contact us for more detail.

NB/NBF255

50Hz

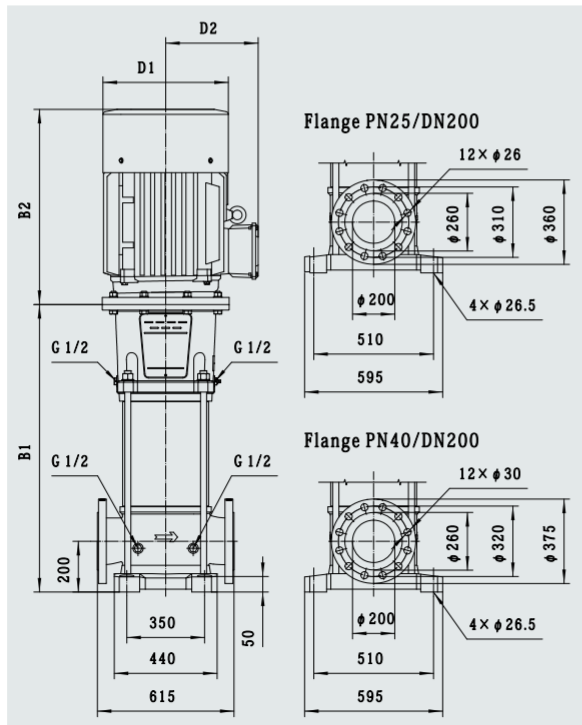
Performance curve



Performance table

Model	Motor (kW)	Q (m³/h)	H (m)												
			0	125	140	160	180	200	220	240	255	280	300	320	330
255-1-1	30		43.5	41	40.5	39.5	38	36.5	34.5	32.5	30.5	27	24	21	19
255-1	45		54.5	51	50.5	49.5	48.5	47	45.5	43.5	42	38.5	35.5	32.5	30.5
255-2-2	55		88	82.5	81.5	79.5	77	74	70	65.5	62	55	49	42	38.5
255-2	75		109	102.5	101	99.5	97.5	95	92	88	84.5	77.5	71.5	65	62
255-3-2	90		142.5	133.5	132	129	125	121	115	109	104	93.5	84.5	75	69.5
255-3	110		164	153.5	151.5	149	146	142	138	132.5	127.5	117	108	98	93
255-4-2	132		197	185	182.5	179	175	169	162	153.5	147	132.5	120.5	108	100
255-4	160		218.5	204.5	202	199	195	189.5	184	177	170	156	144	131	124
255-5-3	160		241	226	223	218.5	213.5	205.5	197	186.5	178	160	145	129	120.5
255-5	200		273	256	253	248.5	243.5	237	230	221	212.5	195	180	163.5	155
255-6-2	200		306	287.5	283.5	278.5	272	263.5	254	242	232	210	193	173	162.5

Installation drawing



※255-1-1 ~ 255-5-3 standard flange is PN25, PN40 flange is optional
255-5 ~ 255-6-2 standard flange is PN40

Dimensions and weight

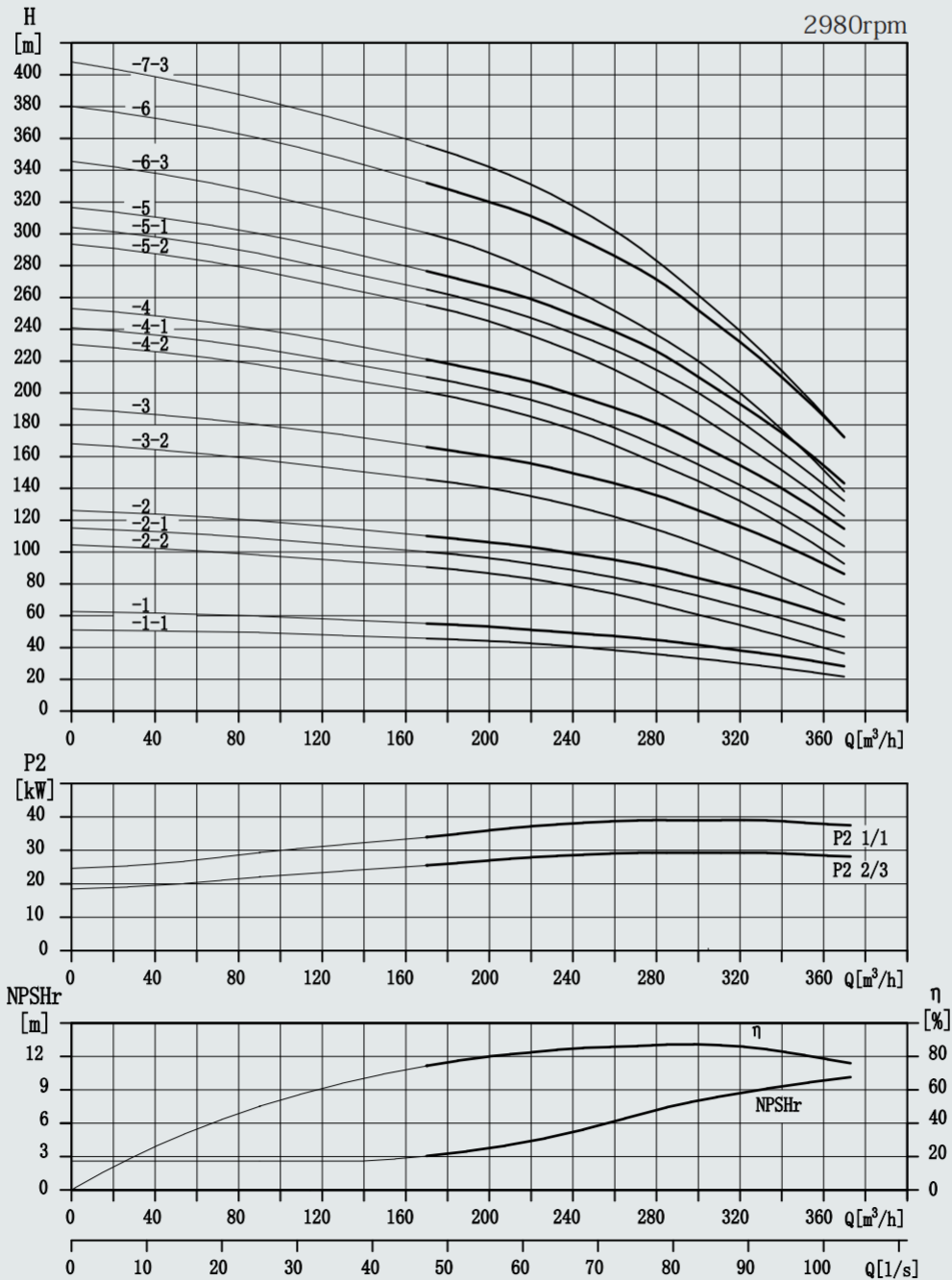
Model	Dimensions (mm)					Weight (kg)
	B1	B2	B1+B2	D1	D2	
255-1-1	841	650	1491	397	307	530
255-1	841	697	1538	446	330	650
255-2-2	1011	770	1781	485	369	760
255-2	1011	835	1846	547	398	890
255-3-2	1139	885	2024	547	398	980
255-3	1139	1060	2199	624	526	1180
255-4-2	1267	1148	2415	624	526	1330
255-4	1267	1148	2415	624	526	1470
255-5-3	1395	1148	2543	624	526	1500
255-5	1395	1148	2543	624	526	1670
255-6-2	1523	1148	2671	624	526	1700

※The dimensions will be different for the Ex-proof motor, please contact us for more detail.

NB/NBF285

50Hz

Performance curve

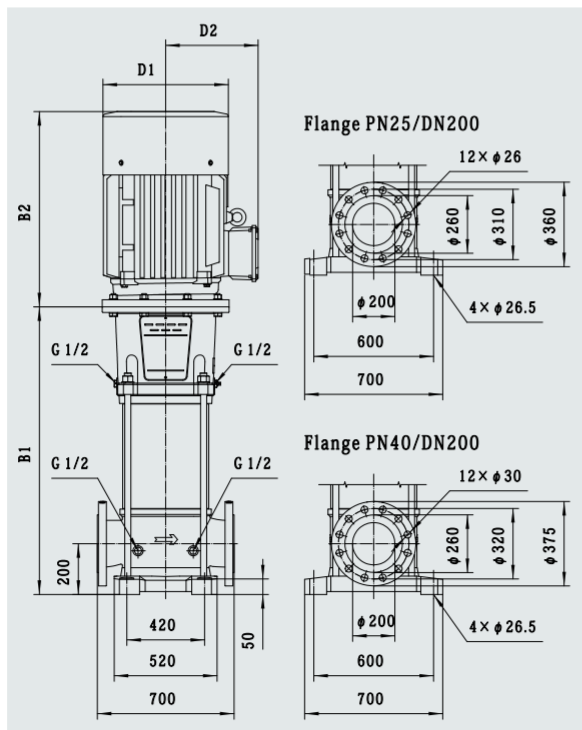


Performance table

Model	Motor (kW)	Q (m³/h)	0	170	200	220	240	260	285	300	320	340	370
285-1-1	37	H (m)	51	45.5	44	42.5	40.5	38.2	35	33	30	26.8	21.5
285-1	45		62.5	55	53	51	49	47	44	41.5	38	34.5	28
285-2-2	75		103	90.5	86.5	83	78.5	73.5	65.5	62	54	47	36
285-2-1	75		115	100	96	92.5	88.5	83.8	77	72.5	65.5	58.2	46.5
285-2	90		126	110	106	103	99	95	88.5	83.5	77	69.5	57
285-3-2	110		167	146	140	135	129	122	111	106	95	84	65
285-3	132		190	166	160	155.5	149.5	143	133.5	126	116	105	86
285-4-2	160		230	201	192	185	177	167	155	148	132	117.5	93.5
285-4-1	160		242	211	202	195.5	187.5	178	166	158	142	128	104
285-4	185		253	221	213	207	199	190.5	178	168	154.5	140	114.5
285-5-2	185		293.5	256	245	236	226	214.5	199	190	169	151.5	122
285-5-1	200		305	266	255	247	237.5	227	211	200	182.5	163	133
285-5	220		316.5	276.5	266.5	259	249	238.5	222.5	210	193	175	143
285-6-3	220		345.5	302	288	278	267	254	234	222	200	177	140
285-6	250		380	332	320	311	299	286	267	252	232	210	172
285-7-3	280		408	357	342	331	317.5	302	278	261.5	239	214	172

※Other cut impeller type is available for different delivery head and power, please contact us for more detail.

Installation drawing



※285-1-285-3 standard flange is PN25, PN40 is optional, 285-4-285-7-3 standard flange is PN40

Dimensions and weight

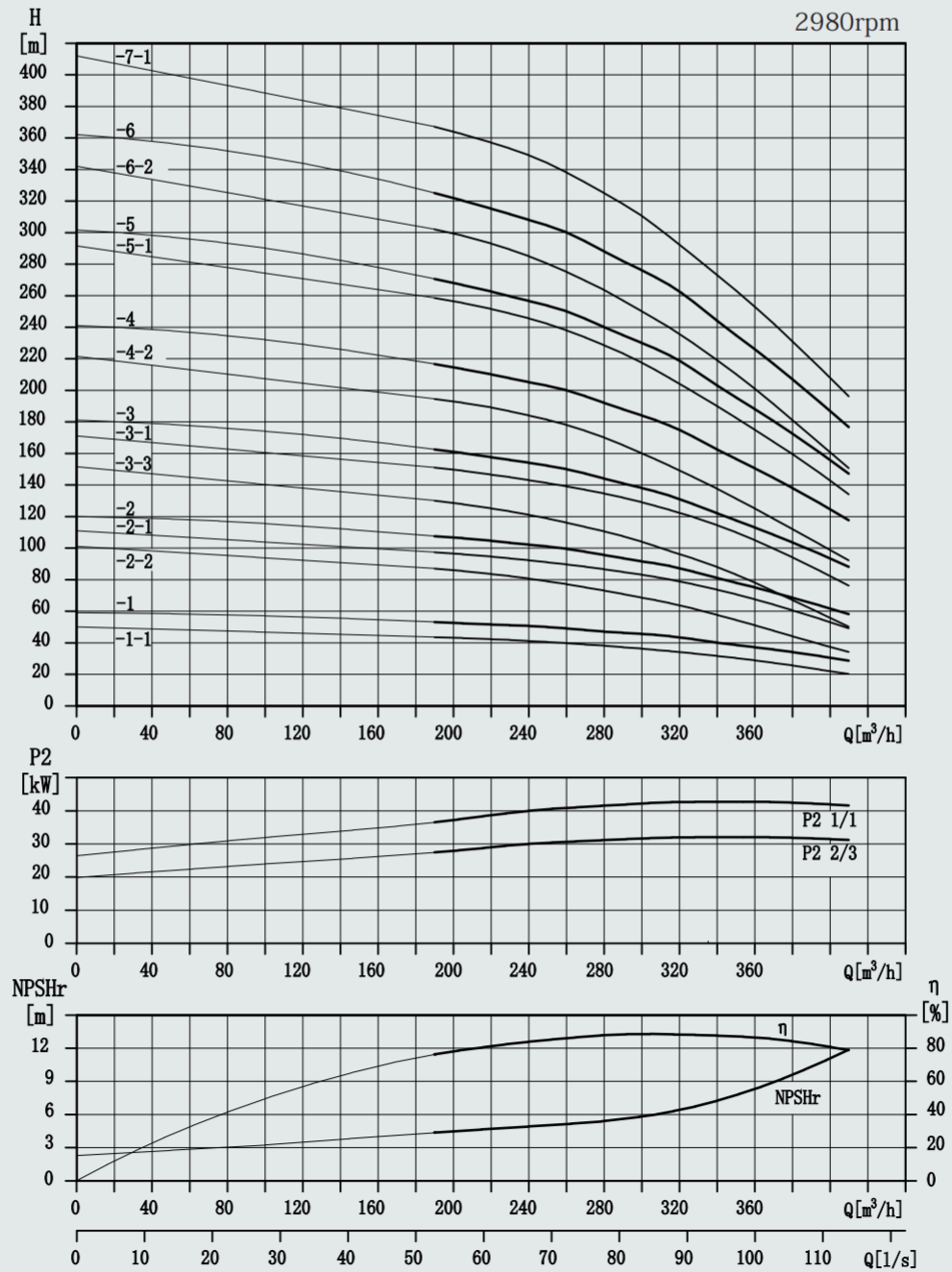
Model	Dimensions (mm)					Weight (kg)
	B1	B2	B1+B2	D1	D2	
285-1-1	937	650	1587	397	307	558
285-1	937	697	1634	446	330	678
285-2-2	1124	835	1959	547	398	884
285-2-1	1124	835	1959	547	398	884
285-2	1124	885	2009	547	398	904
285-3-2	1269	1060	2329	624	526	1359
285-3	1269	1148	2417	624	526	1434
285-4-2	1414	1148	2562	624	526	1464
285-4-1	1414	1148	2562	624	526	1464
285-4	1414	1148	2562	624	526	1524
285-5-2	1559	1148	2707	624	526	1534
285-5-1	1559	1148	2707	624	526	1574
285-5	1559	1148	2707	624	526	1854
285-6-3	1704	1148	2852	624	526	1875
285-6	1704	1375	3079	698	640	1955
285-7-3	1849	1375	3224	698	640	2025

※The dimensions will be different for the Ex-proof motor, please contact us for more detail.

NB/NBF315

50Hz

Performance curve

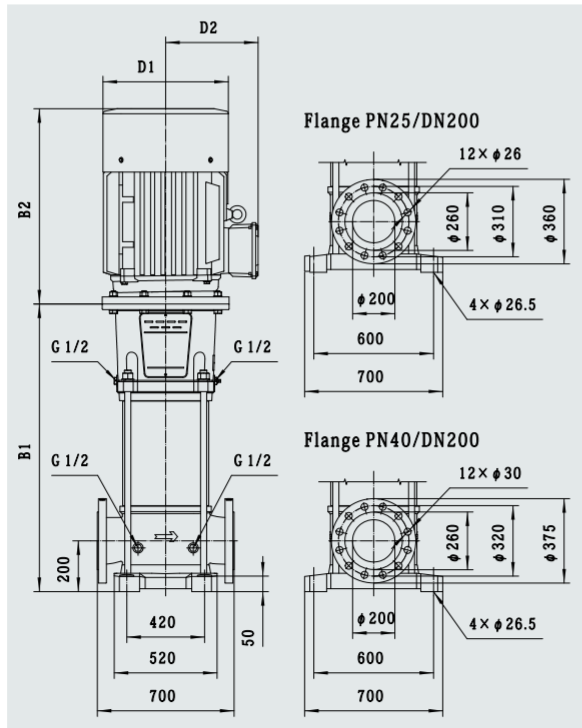


Performance table

Model	Motor (kW)	Q (m³/h)	H (m)											
			0	190	220	240	260	280	300	315	340	360	380	410
315-1-1	45	50	43.5	42.2	41	39.6	38	36.1	34.5	31.5	28.7	25.5	20	
315-1	55	59	53	51.5	50.5	49	47	45.5	44	40	37	34	28.5	
315-2-2	75	100.5	86.5	83.5	80.5	77	73	68.5	65	57.5	51	44	33	
315-2-1	90	110	96.5	94.5	92.2	89.5	86.5	83	80	73.5	67.5	60.5	46	
315-2	110	120	107.5	104.5	102	99.5	95.5	91.5	88.5	81	75	68.5	58	
315-3-3	110	151	129	125	121	116	110.5	104	98	88	78	67	50	
315-3-1	132	171	151	146.5	143	139	134.5	129	124	114.5	105	94	75	
315-3	160	181	162.5	157.5	154	150	144	138	133	122	113	103.5	88	
315-4-2	160	221	194.5	189	184	178	170	160	152	137.5	125	112	92	
315-4	185	241	216.5	210	205	200	192	184	178	162.5	150.5	138	117.5	
315-5-1	220	291	259	251.5	245.5	238	228.5	217.5	209.5	190	175	159.5	134	
315-5	250	301.5	270.5	262.5	256.5	250	240	230	222	203	188	172.5	147	
315-6-2	250	342	303	293	285	275	264	252	242	219	201	181	150	
315-6	280	362	325	315	308	300	288	276	266.5	244	226	207	176.5	
315-7-1	315	412	367	357	349	338	325	310.5	297	273	253	231	196	

※Other cut impeller type is available for different delivery head and power, please contact us for more detail.

Installation drawing



※315-1 ~ 315-4 standard flange is PN25, PN40 is optional.
315-5 ~ 315-7-1 standard flange is PN40

Dimensions and weight

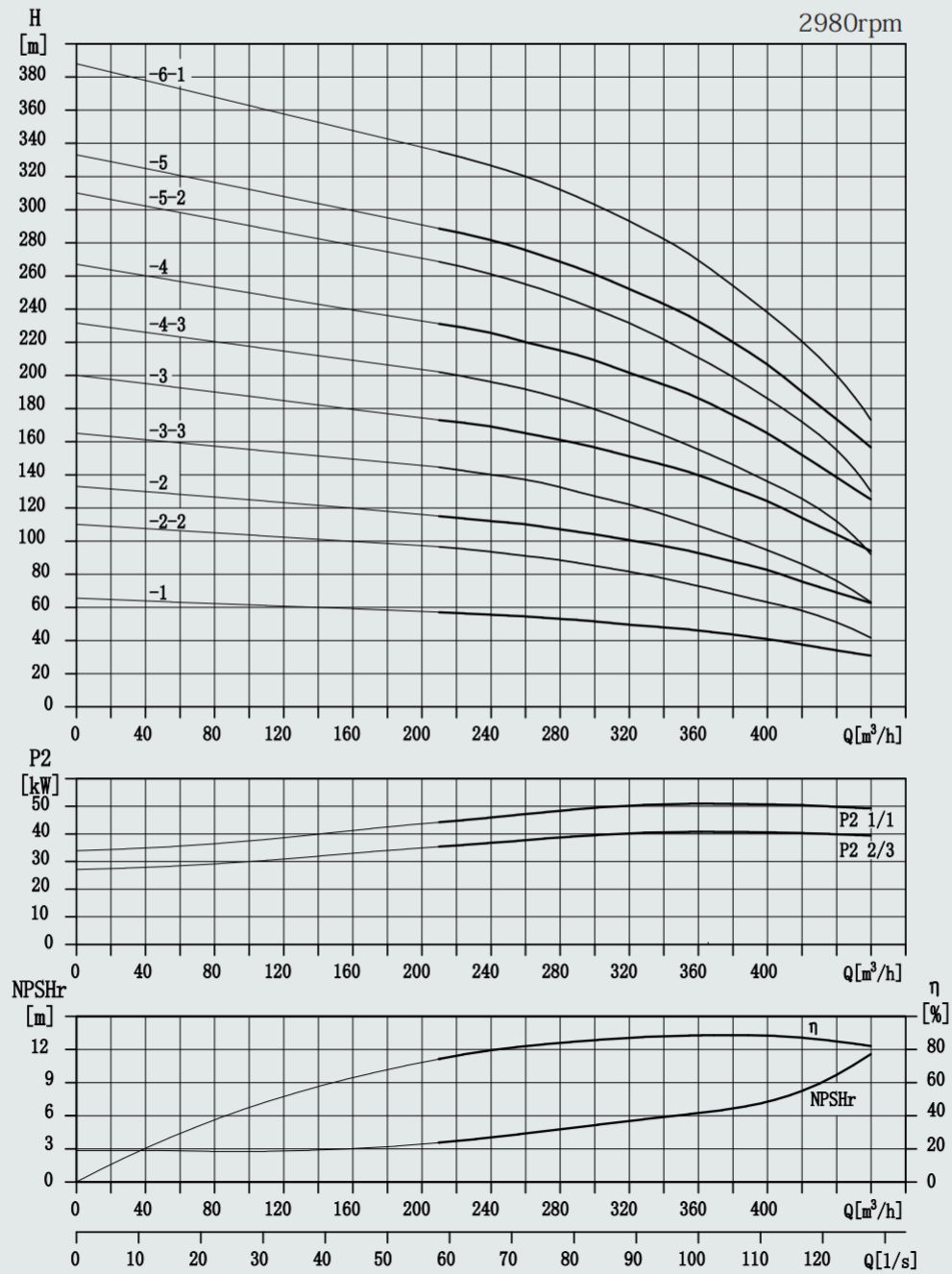
Model	Dimensions (mm)					Weight (kg)
	B1	B2	B1+B2	D1	D2	
315-1-1	979	697	1676	446	330	698
315-1	979	770	1749	485	369	738
315-2-2	1124	835	1959	547	398	855
315-2-1	1124	885	2009	547	398	875
315-2	1124	1060	2184	624	526	1290
315-3-3	1269	1060	2329	624	526	1309
315-3-1	1269	1148	2417	624	526	1384
315-3	1269	1148	2417	624	526	1454
315-4-2	1414	1148	2562	624	526	1474
315-4	1414	1148	2562	624	526	1534
315-5-1	1559	1148	2707	624	526	1865
315-5	1559	1375	2934	698	640	1945
315-6-2	1704	1375	3079	698	640	1970
315-6	1704	1375	3079	698	640	2040
315-7-1	1849	1375	3224	698	640	2150

※The dimensions will be different for the Ex-proof motor, please contact us for more detail.

NB/NBF355

50Hz

Performance curve

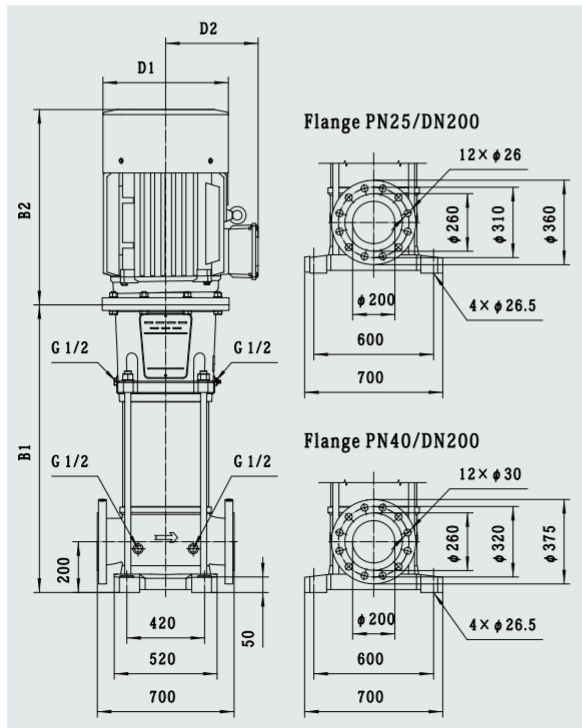


Performance table

Model	Motor (kW)	Q (m³/h)	H (m)												
			0	210	240	260	280	300	320	355	380	400	420	440	460
355-1	55		65.5	57	55.5	54.5	53	51.5	49.5	46.5	43.5	40.8	37.5	34	30.7
355-2-2	90		110	96.5	93.5	91	88.5	85	81.5	74	68	63	58	51	41.5
355-2	110		133	115	112	110	107	104	100.5	94	87.5	82.5	75.5	69	62.5
355-3-3	132		165	144.5	140	137	132.5	127	122	111	102	94.5	86	76	62
355-3	160		200	173	169	165	161	156.5	151	141.5	132	124	114	104	94
355-4-3	185		232	202	196	191.5	186	179.5	172	158	146	136	125.5	112	93
355-4	220		267	231	225.5	220	215	209	201.5	188.5	176	165	152	138.5	125
355-5-2	250		310	269	261	255	248	240	231.5	215.5	199	186	172	155	135.5
355-5	280		333	288.5	281.5	275.5	268.5	261	252	235.5	220	206.5	190	173.5	156.5
355-6-1	315		388	336	326.5	320	312	303	293	273	254	238	220.5	200	176

※Other cut impeller type is available for different delivery head and power, please contact us for more detail.

Installation drawing



※355-1 ~ 355-3 standard flange is PN25, PN40 is optional.
355-4 ~ 355-6-2 standard flange is PN40

Dimensions and weight

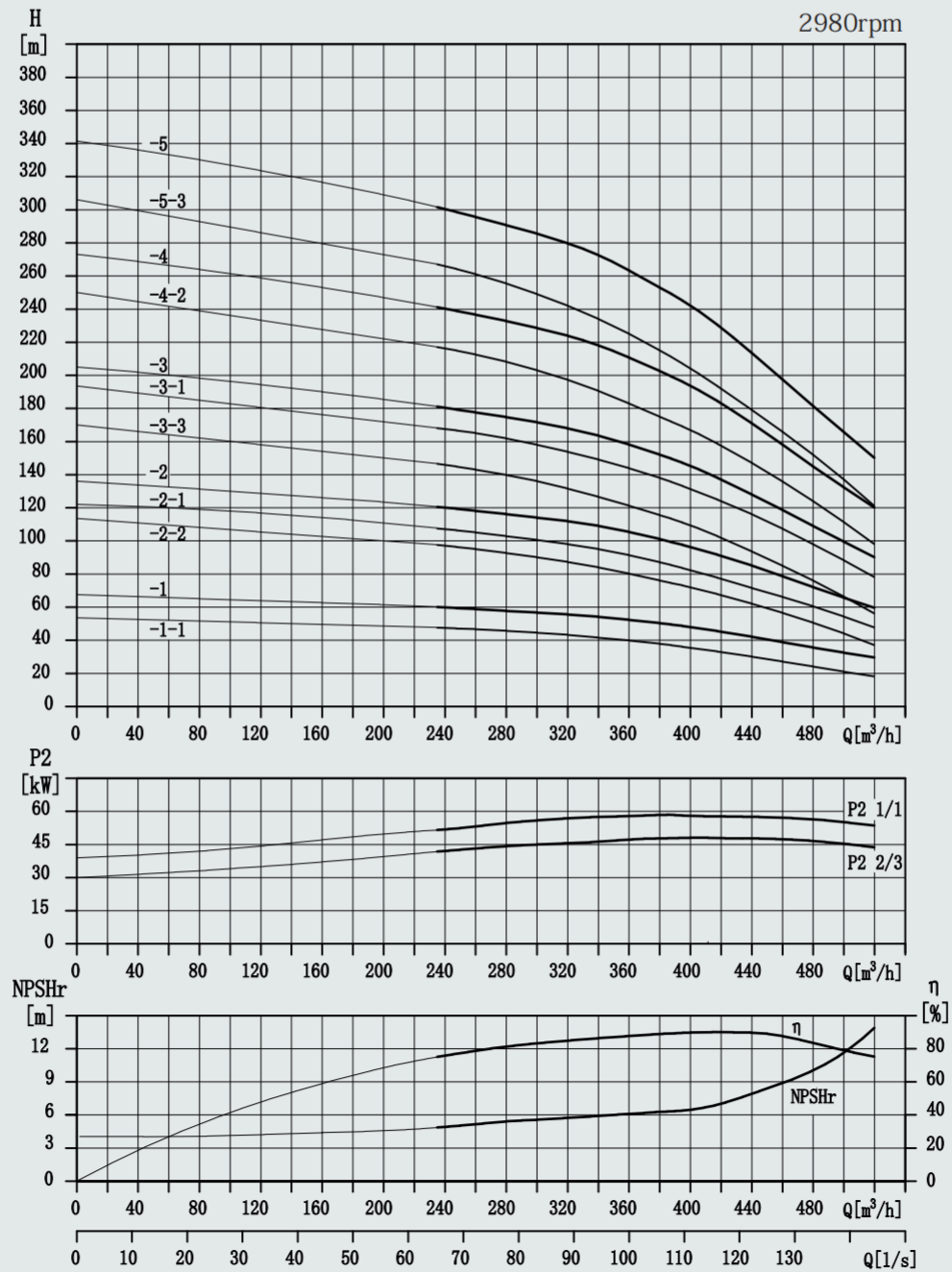
Model	Dimensions (mm)					Weight (kg)
	B1	B2	B1+B2	D1	D2	
355-1	979	770	1749	485	369	714
355-2-2	1124	885	2009	547	398	890
355-2	1124	1060	2184	624	526	1305
355-3-3	1269	1148	2417	624	526	1390
355-3	1269	1148	2417	624	526	1460
355-4-3	1414	1148	2562	624	526	1530
355-4	1414	1148	2562	624	526	1850
355-5-2	1559	1375	2934	698	640	1940
355-5	1559	1375	2934	698	640	2010
355-6-1	1704	1375	3079	698	640	2130

※The dimensions will be different for the Ex-proof motor, please contact us for more detail.

NB/NBF395

50Hz

Performance curve

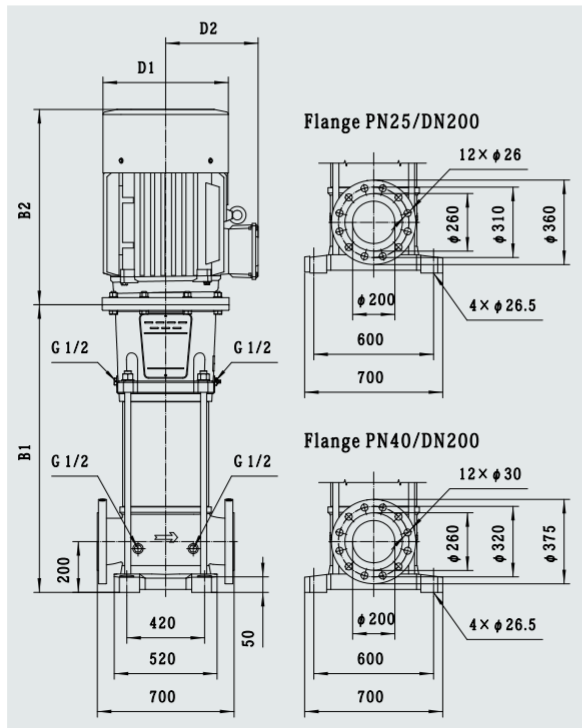


Performance table

Model	Motor (kW)	Q (m³/h)	0	235	260	300	340	380	395	440	480	520
395-1-1	55	H (m)	53.5	47.5	46.5	44.5	41.5	37.8	36	30	24	18
395-1	75		67.5	60	58.7	56.6	54	50.2	48.5	42	35.5	29.5
395-2-2	110		113	97.5	95	90	84	76	73	62	50.5	36.5
395-2-1	110		124.5	109	105	100.5	95	87.5	85	71.5	60.5	48
395-2	132		136	120.5	118	114	109	101	97.5	85	72	59.5
395-3-3	160		170	146.5	143	136	126.5	115.5	110	93.5	76	55.5
395-3-1	185		193.5	169	165	158	149	138	134	116	98	78
395-3	200		205	181	177.5	171.5	163.5	152	147	128	109	90
395-4-2	220		250	217	212.5	203	191	177	171	147	124	97
395-4	250		273	241	236.5	228.5	218	202.5	196	171	145	120
395-5-3	280		306	267	261	249	234	215	207	179	152	115
395-5	315		341.5	301.5	295.5	285.5	272.5	253	245	213.5	181.5	150

※Other cut impeller type is available for different delivery head and power, please contact us for more detail.

Installation drawing



※395-1 ~ 395-3 standard flange is PN25, PN40 is optional.
395-4 ~ 395-5 standard flange is PN40

Dimensions and weight

Model	Dimensions (mm)					Weight (kg)
	B1	B2	B1+B2	D1	D2	
395-1-1	979	770	1749	485	369	715
395-1	979	835	1814	547	398	850
395-2-2	1124	1060	2184	624	526	1295
395-2-1	1124	1060	2184	624	526	1295
395-2	1124	1148	2272	624	526	1370
395-3-3	1269	1148	2417	624	526	1220
395-3-1	1269	1148	2417	624	526	1280
395-3	1269	1148	2417	624	526	1560
395-4-2	1414	1375	2789	624	526	1860
395-4	1414	1375	2789	698	640	1940
395-5-3	1559	1375	2934	698	640	2020
395-5	1559	1375	2934	698	640	2130

※The dimensions will be different for the Ex-proof motor, please contact us for more detail.

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