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NSLA 50HZ



P PIPE CIRCULATION PUMP



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BRIEF introduction

VELANS, from USA, was initially founded in 1995, as the career of several young guys with dreams, going through the continual growth, up to now, it has been a larger enterprise with 12 subordinate factories, over 40 sale operators and joint-stock manufacturer in USA, Canada, France, Finland, Shanghai and so on, and more than 1.5 billion USD of annual sales turnover.

In 2010, VELANS acquired NUOSAI located in Songjiang Industrial Zone, Shanghai, China and it is the production & sale base oriented for China & Southeast Asia Market, as the beginning of VELANS's entry into the China market, since then, in almost all industrial fields, such as petroleum, chemical industry, power plants, mining, vessel, industrial workshops, building construction and so on, in China, we can see the important partners of VELANS.

AS one of the most professional fluid machinery manufacturers and operators in the world, VELANS is always devoted to research, develop, manufacture and sell the mechanical equipments such as water pumps, motors and so on, in water system fields. For over 50 years, with a long history and rich professional experience in the industry, the senior employees of VELANS link enterprises, suppliers, cooperators and customers closely; owing to the stable human resources structure and the new technical capable employees reserve, we believe that VELANS will have a better future.

What you need is guaranteed

Rugged pumps for harsh liquids, Nuosai pumps range is widely and offer a wide range of customized solutions for very specific requirements



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Foreword

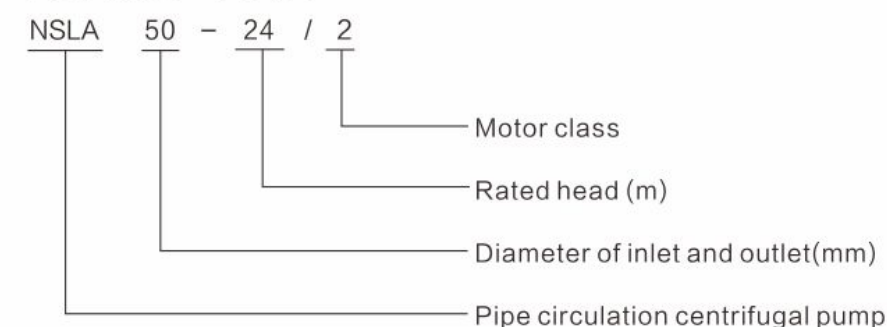
NSLA series single stage pipe circulation centrifugal pump equips with standard motor and mechanical seal. Compare with the similar products, NSLA has better structure to reduce impacts caused by the impurities in the medium.

A special design of easy-pull-out from the top enable the maintenance conducted without the impact of the pipe system.

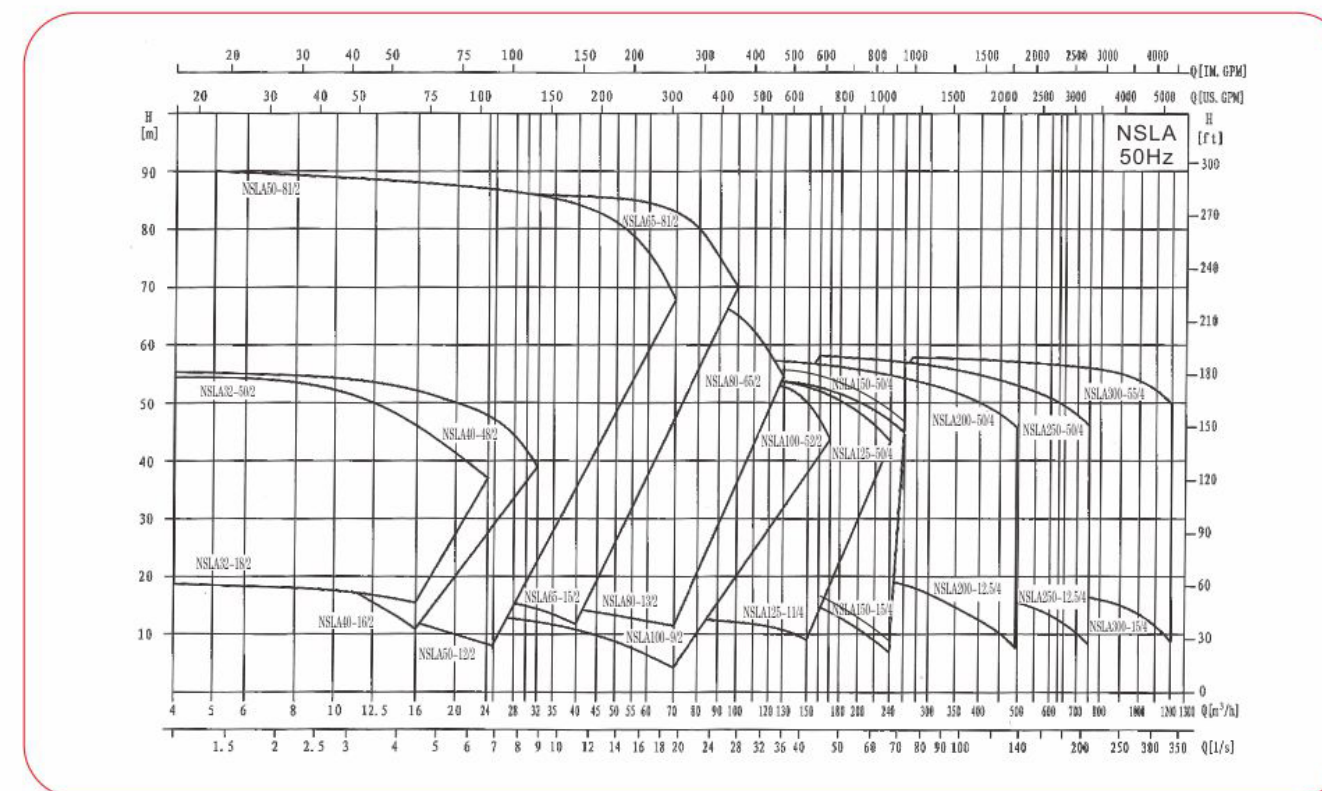
NSLA125 and NSLA150 were produced in both long-shaft structure and easy disassembling structure. The products above NSLA200 all adopt easy disassembling structure enable user to change mechanical seal without dismounting motor.

Model explanation

NSLA50-24/2



Type spectra



Products range

Continued talbe 1

No.	Model	H [m]	Q [m³/h]	n [r/min]	Standard motor voltage [V]	
					1×220v	3×380v
					p2[kW]	p2[kW]
1	NSLA32-18/2	18	8	2900	1.1	1.1
2	NSLA32-21/2	21	12.5		1.5	1.5
3	NSLA32-25/2	25	12.5		2.2	2.2
4	NSLA32-32/2	32	12.5			3
5	NSLA32-38/2	38	12.5			4
6	NSLA32-50/2	50	12.5			5.5
7	NSLA40-16/2	16	12.5		1.1	1.1
8	NSLA40-20/2	20	12.5		1.5	1.5
9	NSLA40-18/2	18	20		2.2	2.2
10	NSLA40-25/2	25	20			3
11	NSLA40-30/2	30	25			4
12	NSLA40-36/2	36	25			5.5
13	NSLA40-48/2	48	25			7.5
14	NSLA50-32/2	32	12.5			3
15	NSLA50-38/2	38	12.5			4
16	NSLA50-48/2	48	12.5			5.5
17	NSLA50-58/2	58	12.5			7.5
18	NSLA50-80/2	80	12.5			11
19	NSLA50-12/2	12	16		1.1	1.1
20	NSLA50-15/2	15	20		1.5	1.5
21	NSLA50-18/2	18	25		2.2	2.2
22	NSLA50-24/2	24	25			3
23	NSLA50-28/2	28	30			4
24	NSLA50-35/2	35	30			5.5
25	NSLA50-40/2	40	35			7.5
26	NSLA50-50/2	50	40			11
27	NSLA50-60/2	60	50			15
28	NSLA50-70/2	70	50			18.5
29	NSLA50-81/2	81	50			22
30	NSLA65-36/2	36	25			5.5
31	NSLA65-48/2	48	25			7.5
32	NSLA65-15/2	15	30		2.2	2.2
33	NSLA65-19/2	19	30			3
34	NSLA65-22/2	22	40			4
35	NSLA65-30/2	30	40			5.5
36	NSLA65-34/2	34	50			7.5
37	NSLA65-40/2	40	50			11
38	NSLA65-50/2	50	50			15
39	NSLA65-61/2	61	50			18.5
40	NSLA65-67/2	67	50			22
41	NSLA65-83/2	83	50			30

Continued talbe 2

No.	Model	H [m]	Q [m³/h]	n [r/min]	Standard motor voltage [V]		
					1×220v	3×380v	
					p2[kW]	p2[kW]	
42	NSLA80-13/2	13	50	2900		3	
43	NSLA80-18/2	18	50			4	
44	NSLA80-22/2	22	50			5.5	
45	NSLA80-28/2	28	50			7.5	
46	NSLA80-40/2	40	50			11	
47	NSLA80-48/2	48	50			15	
48	NSLA80-30/2	30	80			11	
49	NSLA80-38/2	38	80			15	
50	NSLA80-47/2	47	80			18.5	
51	NSLA80-54/2	54	80			22	
52	NSLA80-67/2	67	80			30	
53	NSLA100-9/2	9	50			2.2	2.2
54	NSLA100-15/2	15	60				4
55	NSLA100-17/2	17	80				5.5
56	NSLA100-22/2	22	80				7.5
57	NSLA100-27/2	27	100				11
58	NSLA100-33/2	33	100				15
59	NSLA100-40/2	40	100				18.5
60	NSLA100-48/2	48	100				22
61	NSLA100-52/2	52	130				30
62	NSLA125-11/4	11	120	1450		5.5	
63	NSLA125-14/4	14	120			7.5	
64	NSLA125-18/4*	18	160			11	
65	NSLA125-22/4*	22	160			15	
66	NSLA125-28/4*	28	160			18.5	
67	NSLA125-32/4*	32	160			22	
68	NSLA125-40/4*	40	160			30	
69	NSLA125-48/4*	48	160			37	
70	NSLA150-12.5/4*	12.5	200	1480		11	
71	NSLA150-17/4*	17	200			15	
72	NSLA150-21/4*	21	200			18.5	
73	NSLA150-25/4*	25	200			22	
74	NSLA150-33/4*	33	200			30	
75	NSLA150-40/4*	40	200			37	
76	NSLA150-50/4*	50	200			45	
77	NSLA200-16/4	16	300			18.5	
78	NSLA200-19/4	19	300			22	
79	NSLA200-24/4	24	300			30	
80	NSLA200-31/4	31	300			37	
81	NSLA200-36/4	36	300			45	
82	NSLA200-47/4	47	300			55	
83	NSLA200-53/4	53	300		75		

Continued talbe 3

No.	Model	H [m]	Q [m³/h]	n [r/min]	Standard motor voltage [V]	
					1 × 220v p2[kW]	3 × 380v p2[kW]
84	NSLA200-12.5/4	12.5	400	1480		22
85	NSLA200-20/4	20	400		30	
86	NSLA200-23/4	23	400		37	
87	NSLA200-27/4	27	400		45	
88	NSLA200-32/4	32	400		55	
89	NSLA200-43/4	43	400		75	
90	NSLA200-50/4	50	400		90	
91	NSLA250-16/4	16	500		30	
92	NSLA250-19/4	19	500		37	
93	NSLA250-22/4	22	500		45	
94	NSLA250-29/4	29	500		55	
95	NSLA250-36/4	36	500		75	
96	NSLA250-47/4	47	500	90		
97	NSLA250-56/4	56	500	110		
98	NSLA250-12.5/4	12.5	630	30		
99	NSLA250-14/4	14	630	37		
100	NSLA250-17/4	17	630	45		
101	NSLA250-20/4	20	630	55		
102	NSLA250-26/4	26	630	75		
103	NSLA250-32/4	32	630	90		
104	NSLA250-40/4	40	630	110		
105	NSLA250-50/4	50	630	132		
106	NSLA300-15/4	15	900	55		
107	NSLA300-20/4	20	900	75		
108	NSLA300-25/4	25	900	90		
109	NSLA300-30/4	30	900	110		
110	NSLA300-35/4	35	900	132		
111	NSLA300-44/4	44	900	160		
112	NSLA300-55/4	55	900	200		

The model with* provide with both long shaft and easy-dismounting.

NPSH

The cavitation may occur if the pressure of pump lowers than the vapor pressure of medium. To avoid cavitation, make sure the inlet of pump maintain a certain minimum pressure.

The calculation of maximum suction height (H) as below:

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

H—maximum suction height (m)

P_b—atmospheric pressure (bar)

(P_b was considered as same as the system pressure in a enclosed pipe system)

NPSH---Net Positive Suction Head (m)

(NPSH is corresponding to the maximum flow point in the NPSH curve from performance curve)

H_f—the loss in the pipe from inlet

(H_f is corresponding to the maximum flow goes through the pipe)

H_v—Vapor pressure of the medium (m)

(The value depends on the temperature and vapor pressure of the medium)

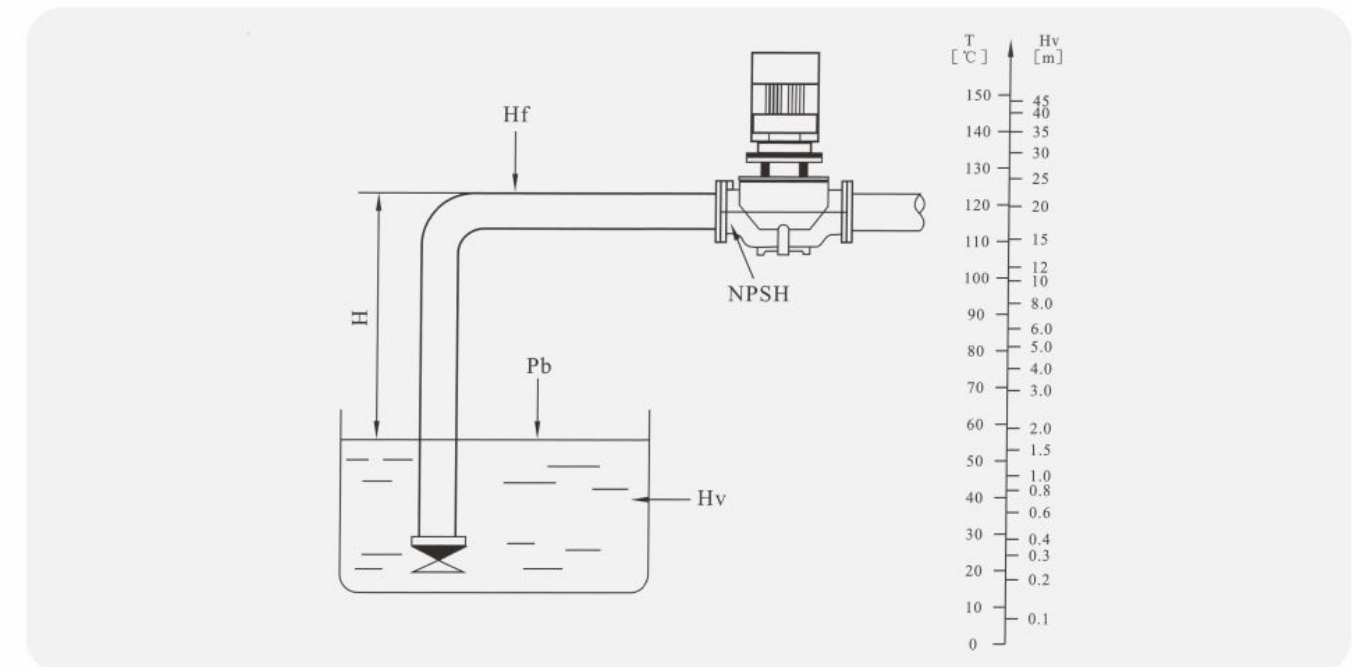
H_s—Safety margin (m)

(Minimum safety margin is 0.5m)

By calculating, if the result is positive means the pump can operate under Maximum suction height (H), if the result is negative means the pump can only operate after a minimum pressure of H was imposed in the inlet

Remark: usually, this calculation is negligible, but in the below circumstances, the calculation is needed:

1. High medium temperature.
2. The flow speed outnumber of rated speed
3. Big suction lift or long inlet pipe
4. The pressure of system is too low
5. Bad conditions of the inlet



Application:

NSLA is suitable in pumping thin, clean, non-flammable, corrosion and explosive liquid without solid particle or fibers which may cause mechanical or chemical damage to the pump. The detail requirements of medium as below table 2. When pumping medium with high viscosity and density, it will cause lower performance curve and energy increasing.

Liquid temperature: -15°C~110°C Maximum operating pressure: normal model PN12 bars, special model PN16 bars.

Table 2

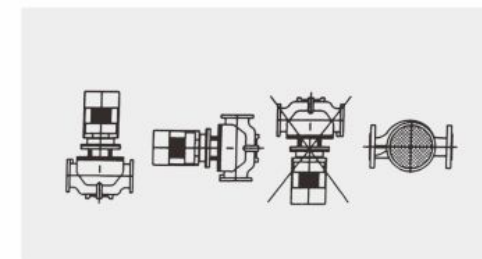
Medium	Maximum temperature	liquid characteristic requirement	U sing position	
Water	underground water	<90°C	NSLA series can use in all kind of water pumping such as: water for living, industrial water, water in cooling system, regional water supply both hot and cold water. NSLA series can operate in the below position: 1.Main circulation pump 2.Pumps in the mixing circuit system 3.Boiler mixed-flow pump 4.Gas freezer pump 5.Flow filter pump 6.Pump for constant pressure system 7.Hot water circulation pump for domestic usage	
	Boiler feed-water	<110°C		
	Regional water supply	<110°C		
	Condensate water	<90°C		
	Softened water	-15°C ~ 110°C		
	Alkaescent water			Water with slightly alkaline
	Coolant liquid or lubricating liquid used in mechanical processing			The additive and the impurities in the liquid may cause damage to the shaft seal of pump
Coolant liquid	Hydrocarbon antifreeze	<50°C	NSLA series can use in the industrial field such as chemistry, pharmacy, food processing etc. Function as: 1.Material transfer pump 2.System boosting pump 3.Mixing circuit circulation pump	
	Coolant liquid Liquid alcohol compound	<50°C 50%		
	30% saline water(sodium chloridesolution, calciumchloride solution)	<50°C		The trace amount of crystal in the liquid may cause damage to the shaft seal of pump
Organic solvent	Isopropyl alcohol	≦60°C	Inflammable liquid	
	Propyl alcohol	≦60°C		
Oxidant	Hydrogen peroxide	≦60°C 20%		

Installation requirements

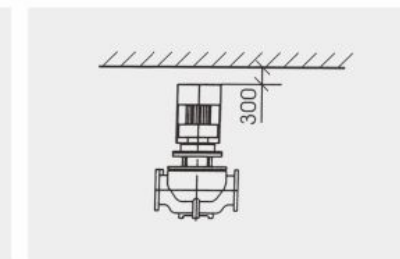
NSLA has different installation requirements, the specific requirement as below:

1. The pump is allowed to suspend in the pipe system, if the pipe system is strong enough to hold the pump with the motor power below 2.2KW. The pump must be installed in the holder or base plate when the pipe system can't hold the weight of pump or the pump's motor power is above 2.2KW.
2. The pump's installation direction can be vertical or horizontal to the pipe when the pump's motor is equal to or under 2.2KW. The pump with motor power above 2.2kw must be vertical to the pipe.
3. The installation must make sure the stretching force of the pipe won't transfer to the pump when operating.
4. To make sure pump functions properly, a low ambient temperature is required and the temperature can't exceed 40°C.
5. If the pump is installed in the outdoor, a proper out cover is necessary to avoid the electronic components from water intake or condensation.
6. Enough spaces above and under the pump must be remain for the future inspection and maintenance. The minimum space's high is 300mm when the pump with motor below 5.5KW and it's space must be higher than 1000mm when the motor is equal to or above 5.5KW.
7. A vibration absorbing base is necessary to avoid noise and vibration and acquire best performance in the pump installation. Normally the base is made by cement and the weight must be 1.5 times heavier than pump's.
8. To meet the different demanding of users, we provide options of with or without base plate from NSLA 32 to NSLA 150. (The base plate measurement, please refer to appendix)

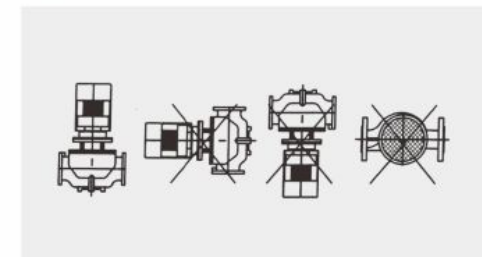
The installation of pump with motor power below or equal to 2.2 KW



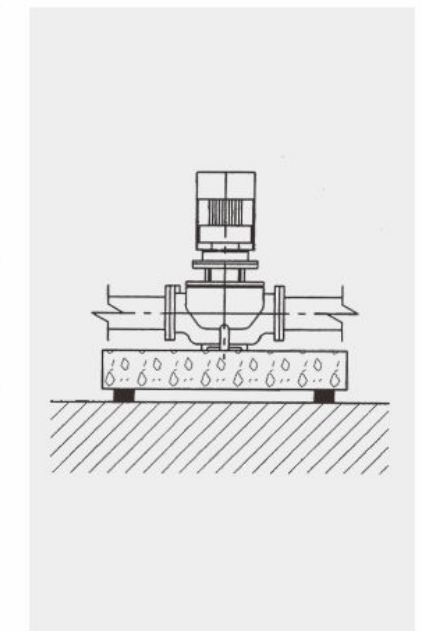
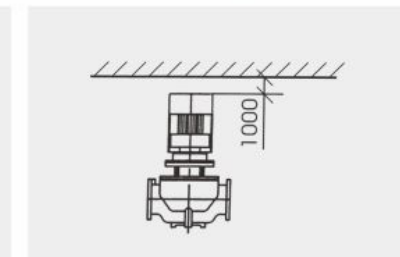
The installation of pump with motor power above 2.2 KW



The installation of pump with motor power above 5.5 KW



The installation of pump with motor power above or equal to 5.5 KW

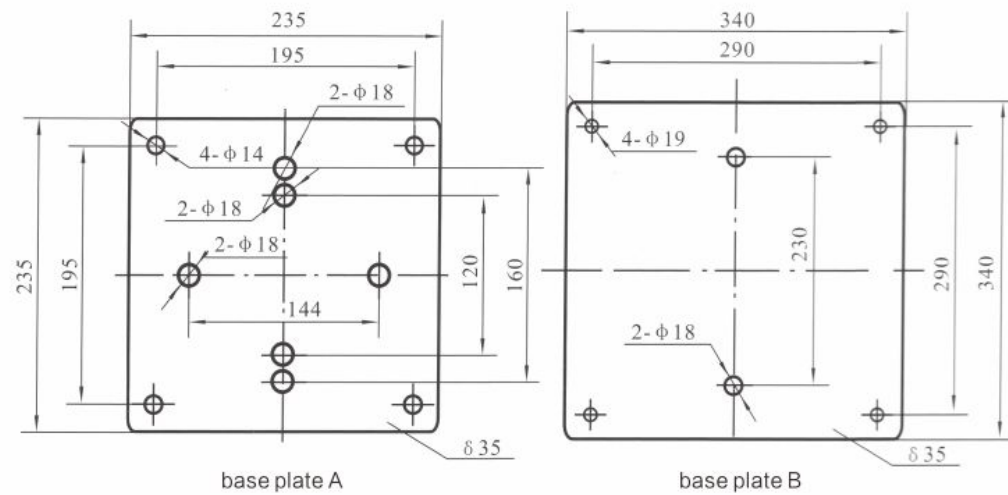


Legend 2-A

Legend 2-B

Legend 2-C

Appendix- base plate



No.	Model	Type	No.	Model	Type	No.	Model	Type
1	NSLA32-18/2	A	27	NSLA50-60/2	A	53	NSLA100-9/2	A
2	NSLA32-21/2	A	28	NSLA50-70/2	A	54	NSLA100-15/2	A
3	NSLA32-25/2	A	29	NSLA50-81/2	A	55	NSLA100-17/2	A
4	NSLA32-32/2	A	30	NSLA65-36/2	A	56	NSLA100-22/2	A
5	NSLA32-38/2	A	31	NSLA65-48/2	A	57	NSLA100-27/2	A
6	NSLA32-50/2	A	32	NSLA65-15/2	A	58	NSLA100-33/2	A
7	NSLA40-16/2	A	33	NSLA65-19/2	A	59	NSLA100-40/2	B
8	NSLA40-20/2	A	34	NSLA65-22/2	A	60	NSLA100-48/2	B
9	NSLA40-18/2	A	35	NSLA65-30/2	A	61	NSLA100-52/2	B
10	NSLA40-25/2	A	36	NSLA65-34/2	A	62	NSLA125-11/4	B
11	NSLA40-30/2	A	37	NSLA65-40/2	A	63	NSLA125-14/4	B
12	NSLA40-36/2	A	38	NSLA65-50/2	A	64	NSLA125-18/4*	B
13	NSLA40-48/2	A	39	NSLA65-61/2	A	65	NSLA125-22/4*	B
14	NSLA50-32/2	A	40	NSLA65-67/2	A	66	NSLA125-28/4*	B
15	NSLA50-38/2	A	41	NSLA65-83/2	A	67	NSLA125-32/4*	B
16	NSLA50-48/2	A	42	NSLA80-13/2	A	68	NSLA125-40/4*	B
17	NSLA50-58/2	A	43	NSLA80-18/2	A	69	NSLA125-48/4*	B
18	NSLA50-80/2	A	44	NSLA80-22/2	A	70	NSLA150-12.5/4*	B
19	NSLA50-12/2	A	45	NSLA80-28/2	A	71	NSLA150-17/4*	B
20	NSLA50-15/2	A	46	NSLA80-40/2	A	72	NSLA150-21/4*	B
21	NSLA50-18/2	A	47	NSLA80-48/2	A	73	NSLA150-25/4*	B
22	NSLA50-24/2	A	48	NSLA80-30/2	A	74	NSLA150-33/4*	B
23	NSLA50-28/2	A	49	NSLA80-38/2	A	75	NSLA150-40/4*	B
24	NSLA50-35/2	A	50	NSLA80-47/2	A	76	NSLA150-50/4*	B
25	NSLA50-40/2	A	51	NSLA80-54/2	A			
26	NSLA50-50/2	A	52	NSLA80-67/2	A			

Remark : base plate is optional ; customers whoneed it should indicate it in the order in advance.
The pumps with * are supplied in 2 options

Product structure

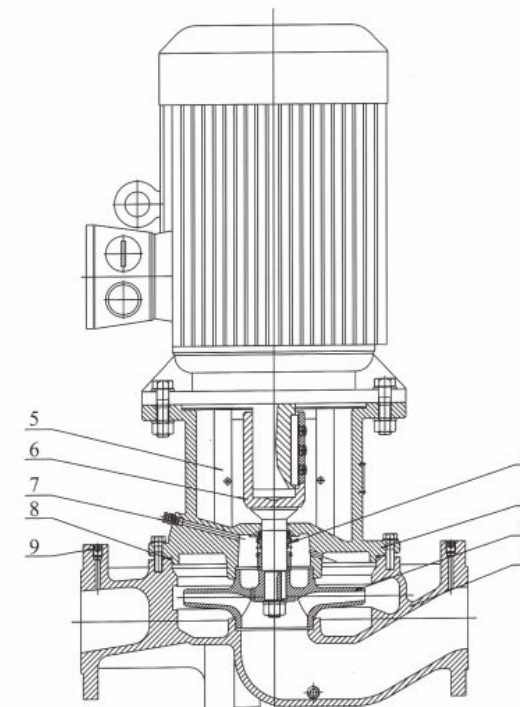
NSLA adopts a detachable structure which pump and motor can be separated from each other. The pump was designed as an easy-pull-out structure. Whole series of NSLA equip with standard motor and mechanical seal. Motor is full sealed, air cooling standard type and its main measurement is in accordance with JB/T8680. The pump body is equal to a part of pipe. It can be sealed with blind flange to ensure the system functional when the pump is under maintaining.

The dimensions of connecting flanges of NSLA are in accordance with the codes of ISO7005-2/DIN2501 standards.

The inlet and outlet diameters are in accordance with related standard.

The pump head serves as a coupler to mount motor and pump together and sealed with O ring.

Sectional drawing NSLA32~NSLA150 Extended shaft



Performance curve premise

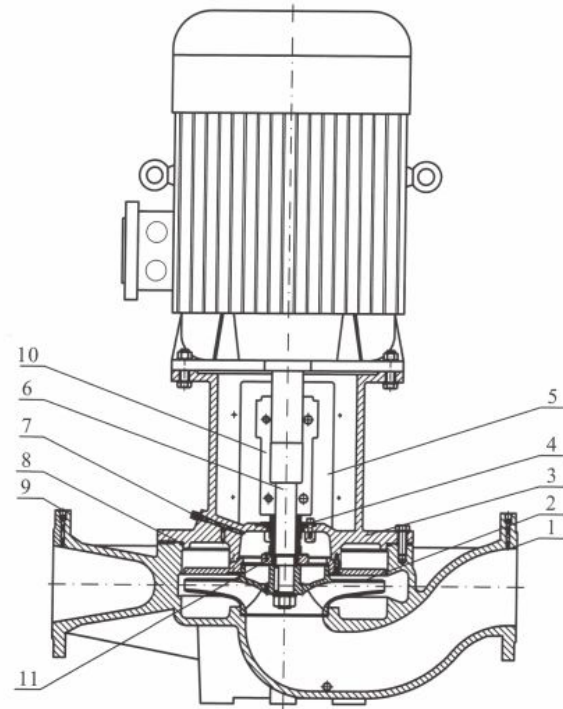
The below principles apply to performance curve.

1. The tolerance of curve meets appendix A, ISO 9906.
2. All curves are based on the measurements of 3X 380 motor running in the constant RPM of 2900, 1480 or 1450.
3. The medium of test is clean water without any solid impurities or air
4. The pumps should operate in the range of bold part of performance curve to avoid motor overheat caused by insufficient flow or overload caused by over flow.
5. If the viscosity and density of the medium is different from water, then the adjustment of motor performance is necessary.

Material N SLA32 ~ NSLA150 extended shaft

No.	Parts	Material
1	Pump body	Cast iron HT200
2	Impeller	Cast iron /stainless steel HT200/ZG07Cr19Ni9
3	Pump head	Castiron H T200
4	Mechanical seal	Graphite/Silicon carbide
5	Protection plate	SS06Cr19Ni10
6	Shaft	SS20Cr13
7	Air vent unit	SS06Cr19Ni10
8	O Ring	NBR
9	Scre w plug	SS06Cr19Ni10

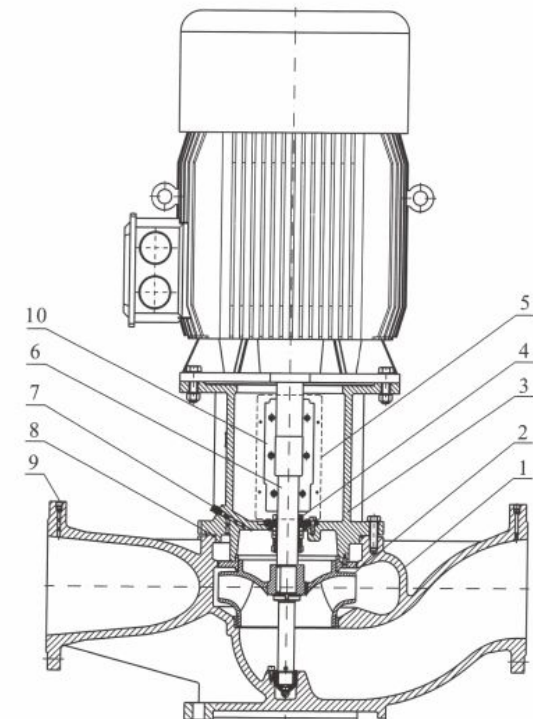
Sectional drawing NSLA125 ~ NSLA150 Detachable



Material NSLA125 ~ NSLA150 Detachable

No.	Parts	Material
1	Pump body	Cast iron/HT200
2	Impeller	Cast iron/HT200 SS/ ZGo7Cr19N19
3	Pump head	cast iron/HT200
4	Mechanical seal	Graphite/silicon car bide
5	Protection plate	SS 06 Cr19Ni10
6	Shaft	SS 20Cr13
7	Air vent unit	SS 06Cr19Ni10
8	O Ring	NBR
9	Screw plug	SS 06Cr19Ni10
10	Coupler	Cast steelZG270 500
11	Support ring	Cast ironHT200

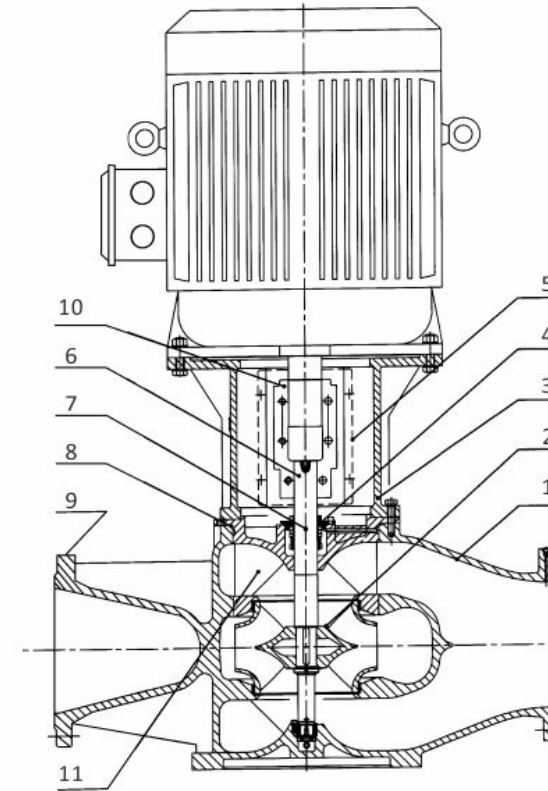
Sectional drawing NSLA200~NSLA250 Detachable



Material NSLA200~NSLA250 Detachable

No.	Parts	Material
1	Pump body	Cast iron/HT200
2	Impeller	Cast iron/HT200 SS/ ZGo7Cr19N19
3	Pump head	cast iron/HT200
4	Mechanical seal	Graphite/silicon car bide
5	Protection plate	SS 06 Cr19Ni10
6	Shaft	SS 20Cr13
7	Air vent unit	SS 06Cr19Ni10
8	O Ring	NBR
9	Screw plug	SS 06Cr19Ni10
10	Coupler	Cast steelZG270 500

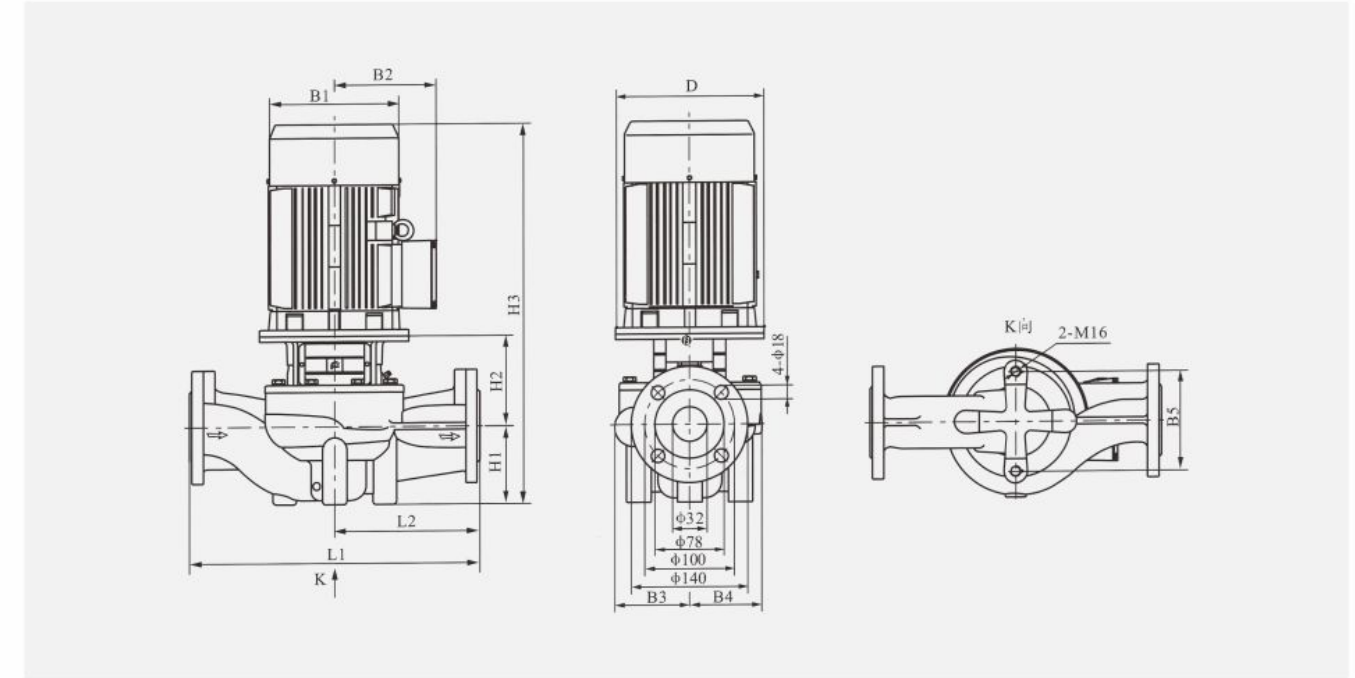
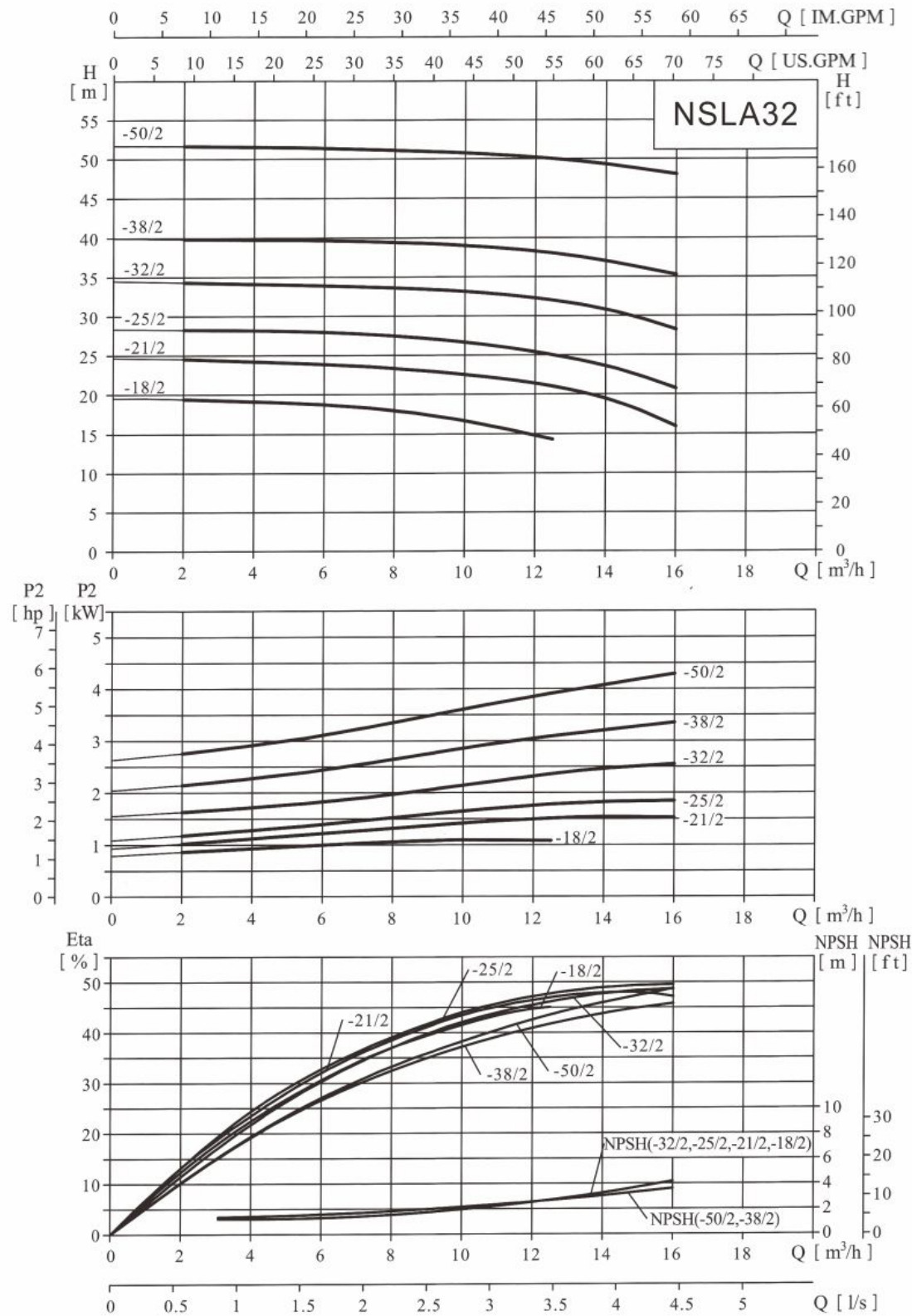
Sectional drawing NSLA300 Detachable



Material NSLA300 Detachable

No.	Parts	Material
1	Pump body	Ductile iron QT500-7
2	Impeller	Cast iron HT200
3	Pump head	Cast ironHT200
4	Mechanical seal	Graphite/Silicon carbide
5	Protection plate	SS06Cr19Ni10
6	Shaft	SS20Cr13
7	Air vent unit	SS06Cr19Ni10
8	O Ring	NBR
9	Screw plug	SS06Cr19Ni10
10	Coupler	Cast steel ZG270-500
11	Pump cover	Ductile iron QT500 7

NSLA32-**-**/2



Performance table

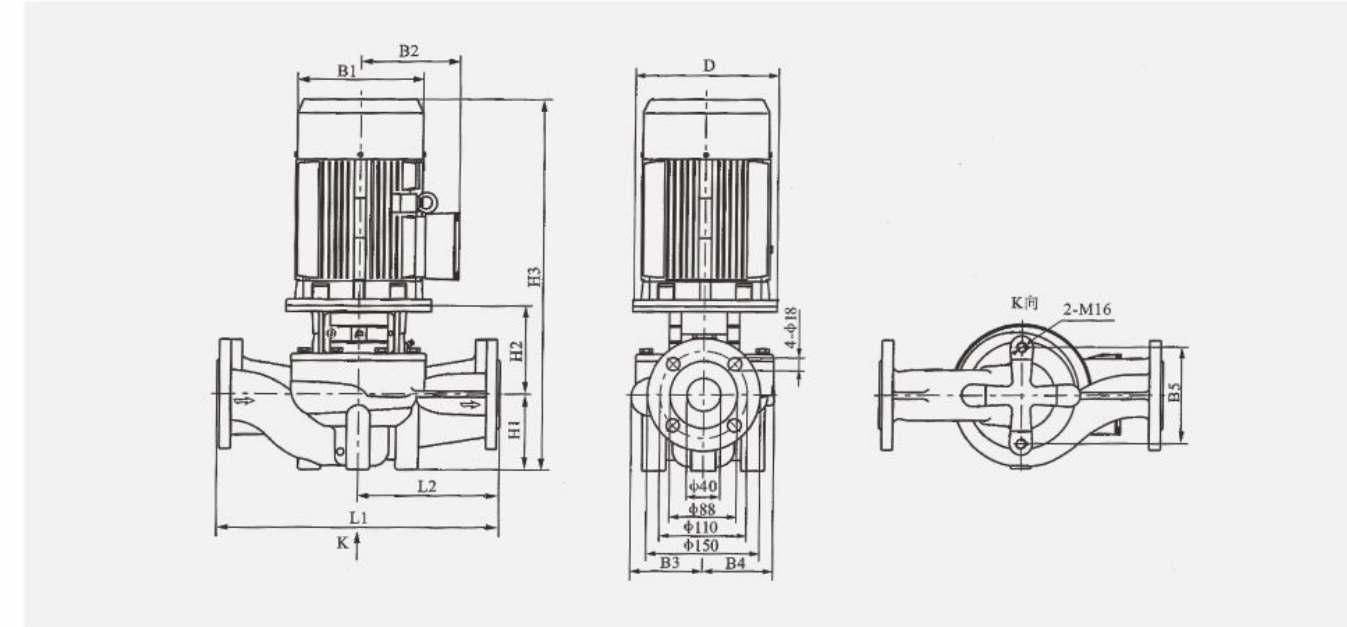
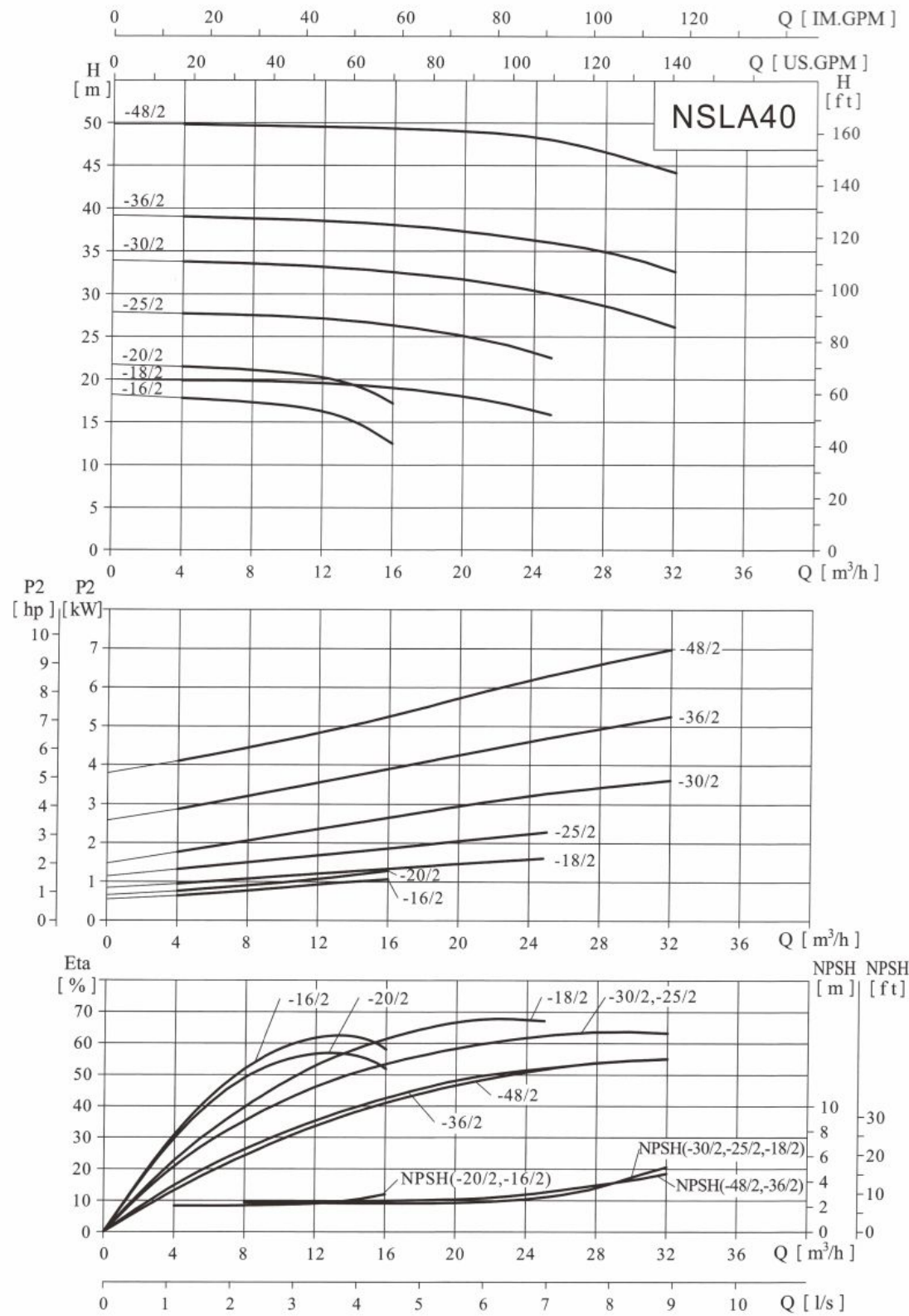
PUPM Model	Motor (Kw)	Q(m³/h)	2	4	6	8	10	12.5	14	16
NSLA32-18/2	1.1	H (m)	19.4	19.1	18.7	18	16.7	14.3	19.4	15.9
NSLA32-21/2	1.5		24.5	24.2	23.9	23.3	22.5	21	23.6	20.7
NSLA32-25/2	2.2		28.3	28.2	28	27.5	26.7	25	30.8	28.2
NSLA32-32/2	3		34.3	34.2	33.9	33.6	33.1	32	37	35.2
NSLA32-38/2	4		39.8	39.8	39.7	39.4	39	38	49.3	48
NSLA32-50/2	5.5		51.7	51.6	51.4	51.1	50.7	50		

Dimension and weight

PUPM Model	Size(mm)											Weight (kg)
	D	B1	B2	B3	B4	B5	H1	H2	H3	L1	L2	
NSLA32-18/2	120	170	142	125	117	144	100	166	511	340	170	50
NSLA32-21/2	140	190	155	125	117	144	100	166	556	340	170	56
NSLA32-25/2	140	190	155	125	117	144	100	166	556	340	170	59
NSLA32-32/2	160	197	165	125	117	144	100	185	630	340	170	68
NSLA32-38/2	160	230	188	144	144	144	100	185	640	440	220	79
NSLA32-50/2	200	260	208	144	144	144	100	213	703	440	220	104

One phase motor and Explosion-proof motor's dimension have changed, check with Nuosai for detail.

NSLA40-*/2



Performance table

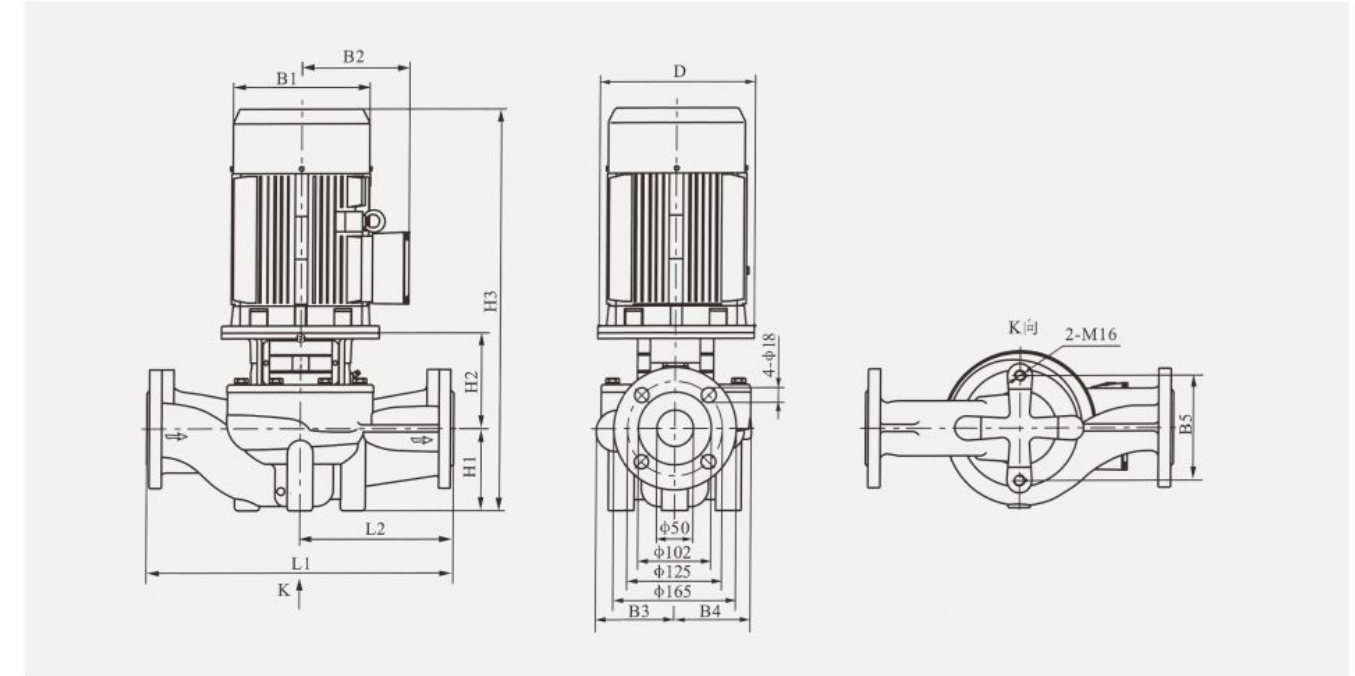
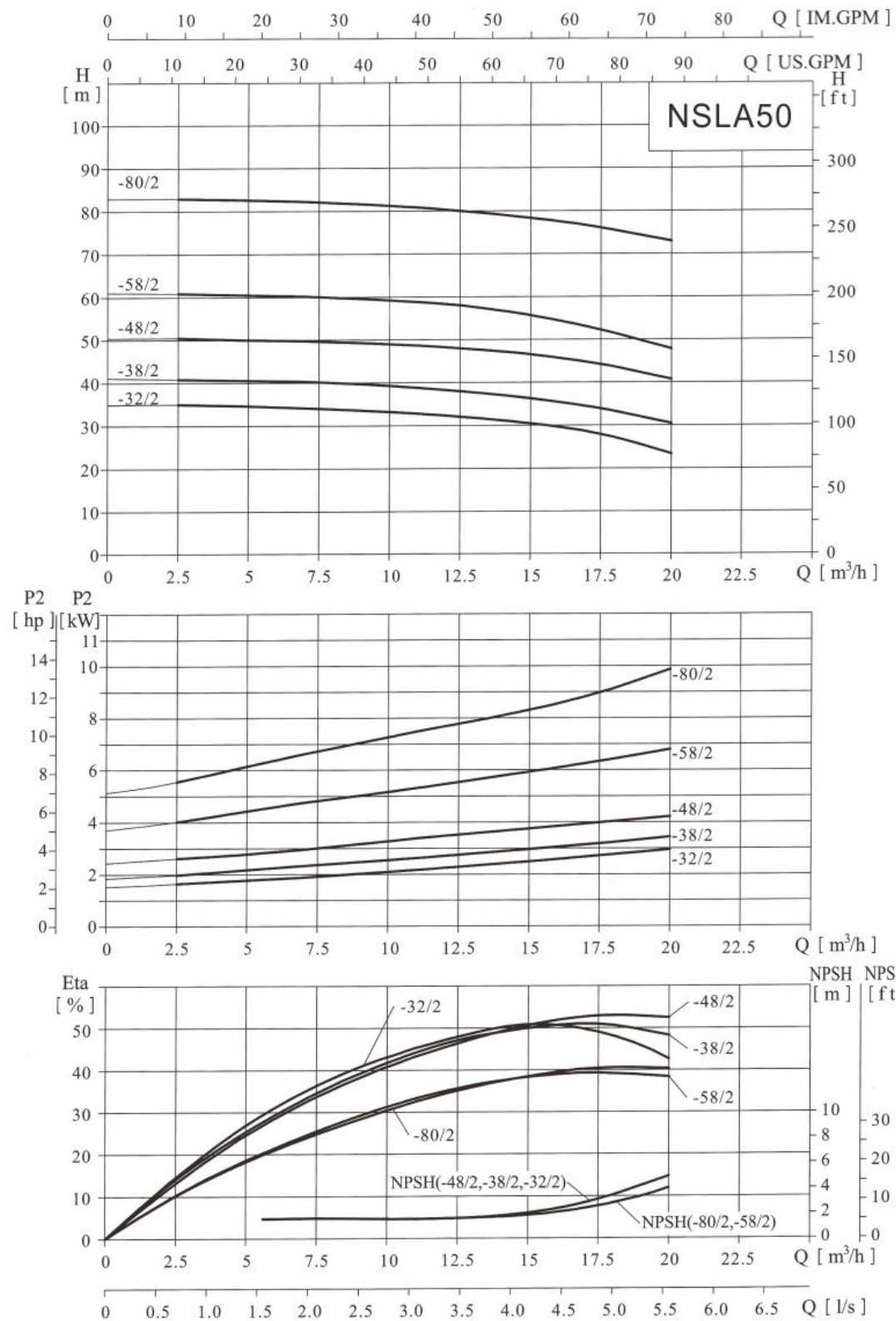
PUPM Model	Motor (Kw)	Q (m³/h)	4	8	12.5	16	20	25	28	32
NSLA40-16/2	1.1	H (m)	17.8	17.3	16	12.5				
NSLA40-20/2	1.5		21.5	21.1	20	17.2				
NSLA40-18/2	2.2		19.9	19.8	19.5	19	18	15.8		
NSLA40-25/2	3		27.7	27.5	27.1	26.4	25	22.5		
NSLA40-30/2	4		33.8	33.6	33.1	32.6	31.7	30	28.6	26.1
NSLA40-36/2	5.5		39	38.8	38.5	38.1	37.3	36	35	32.6
NSLA40-48/2	7.5		49.8	49.7	49.5	49.4	49	48	46.6	44.2

Dimension and weight

PUPM Model	Size(mm)											Weight (kg)
	D	B1	B2	B3	B4	B5	H1	H2	H3	L1	L2	
NSLA40-16/2	120	170	142	97	96	120	68	150	463	320	160	40
NSLA40-20/2	140	190	155	97	96	120	68	160	518	320	160	46
NSLA40-18/2	140	190	155	110	95	144	100	167	557	340	170	53
NSLA40-25/2	160	197	165	127	115	144	100	185	630	340	170	70
NSLA40-30/2	160	230	188	127	115	144	100	185	640	340	170	77
NSLA40-36/2	200	260	208	138	125	144	110	213	713	440	220	106
NSLA40-48/2	200	260	208	138	125	144	110	213	713	440	220	110

One phase motor and Explosion-proof motor's dimension have changed , check with Nuosai for detail.

NSLA50-*/2



Performance table

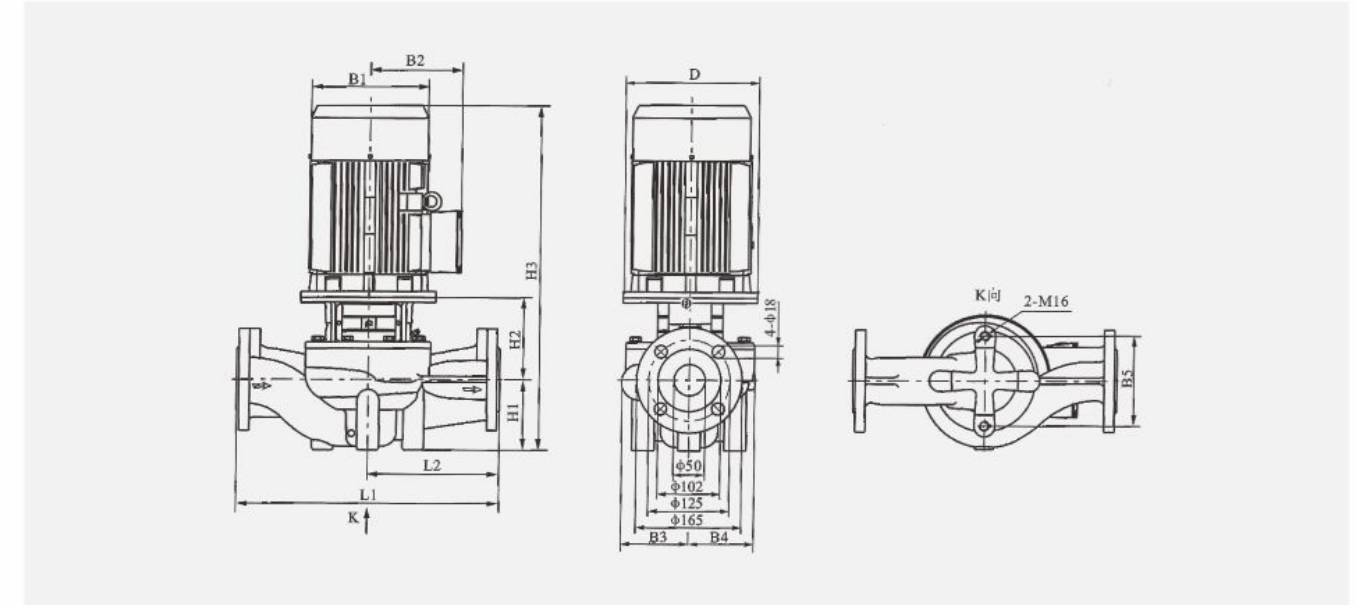
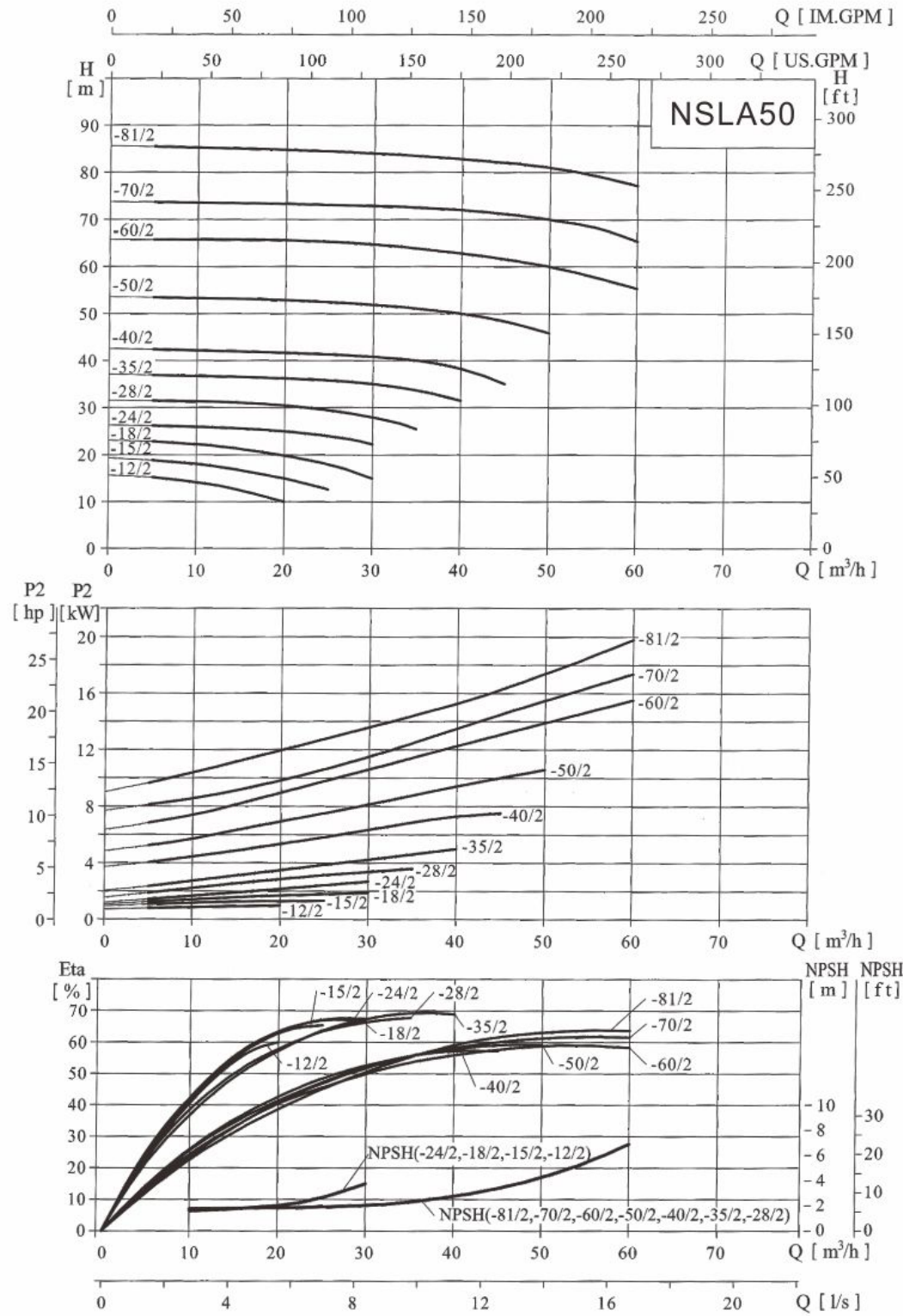
PUPM Model	Motor (Kw)	Q (m³/h)	2.5	5	7.5	10	12.5	15	17.5	20
NSLA50-32/2	3	H (m)	35	34.6	34	33.2	32	30.5	27.9	23.3
NSLA50-38/2	4		40.8	40.6	40.2	39.2	38	36.2	33.9	30.4
NSLA50-48/2	5.5		50.5	50	49.7	49	48	46.5	44.2	40.7
NSLA50-58/2	7.5		61	60.6	60.1	59.2	58	55.7	52.2	47.8
NSLA50-80/2	11		82.9	82.6	82.2	81.2	80	78.4	76.1	73

Dimension and weight

PUPM Model	Size(mm)											Weight (kg)
	D	B1	B2	B3	B4	B5	H1	H2	H3	L1	L2	
NSLA50-32/2	160	197	165	128	128	144	105	162	612	400	200	65
NSLA50-38/2	160	230	188	128	128	144	105	162	622	400	200	71
NSLA50-48/2	200	260	208	128	128	144	105	186	681	400	200	85
NSLA50-58/2	200	260	208	163	163	144	105	196	691	440	220	110
NSLA50-80/2	350	330	255	163	163	144	105	196	801	440	220	185

One phase motor and Explosion-proof motor's dimension have changed, check with Nuosai for detail.

NSLA50-**-**/2



Performance table

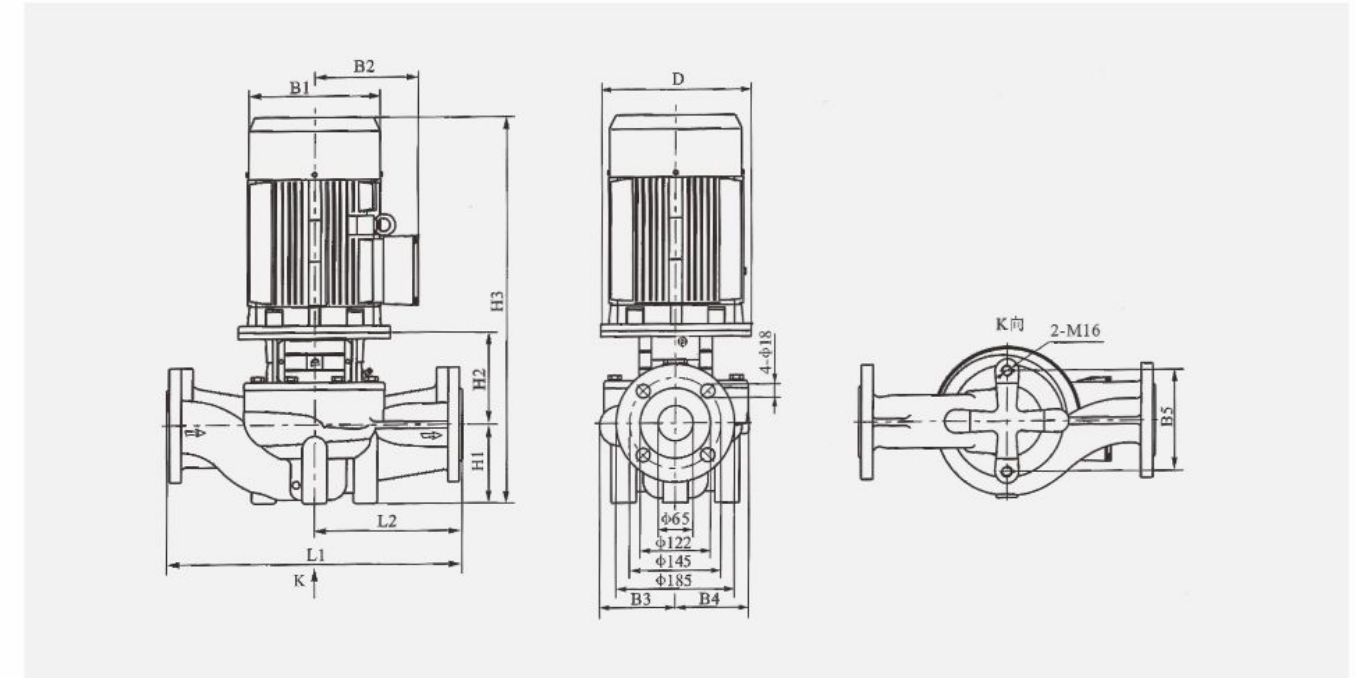
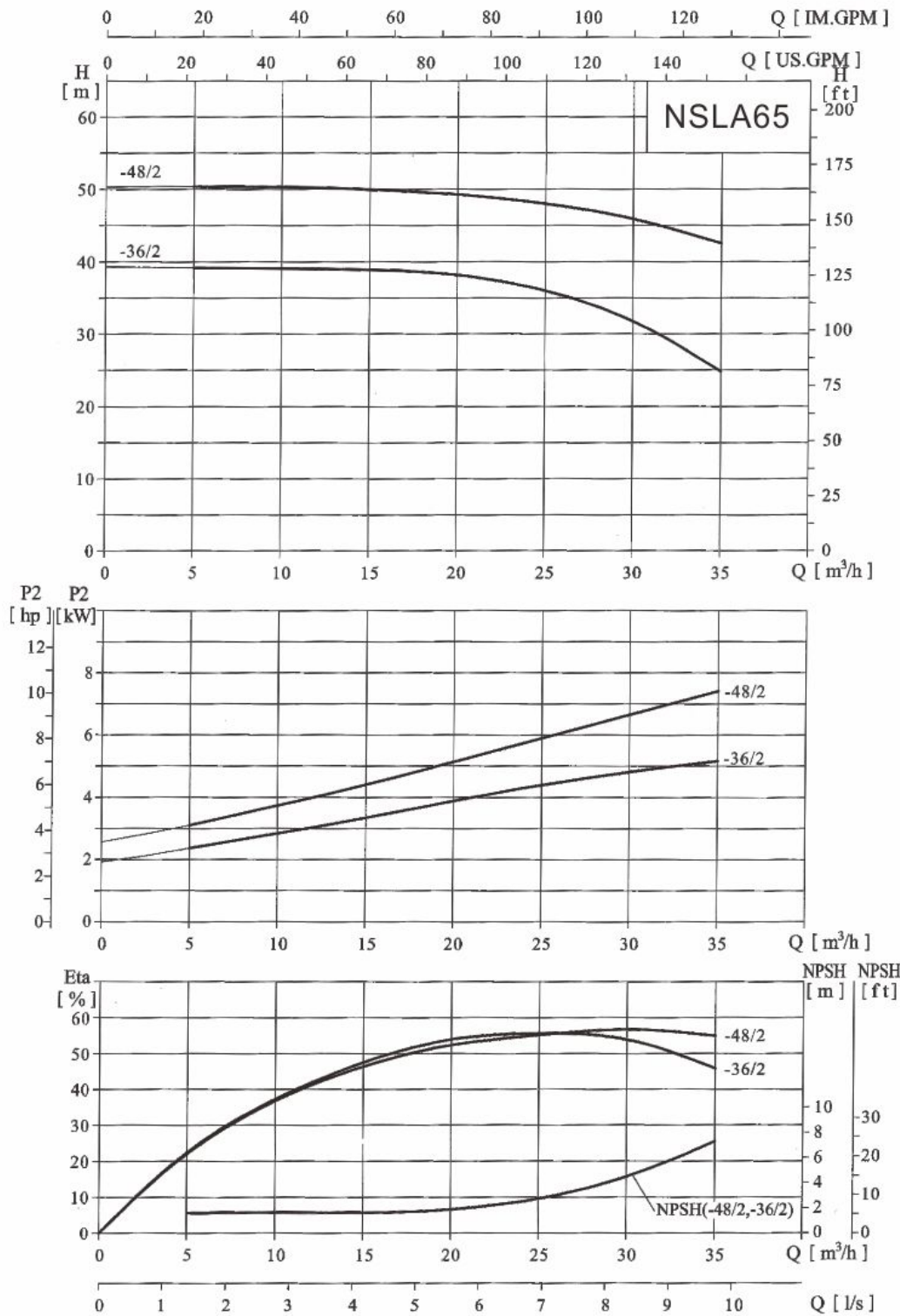
PUPM Model	Motor (Kw)	Q (m³/h)	5	10	16	20	25	30	35	40	45	50	60
NSLA50-12/2	1.1	H (m)	15.2	14.2	12	10							
NSLA50-15/2	1.5		18.9	18	16.5	15	12.6						
NSLA50-18/2	2.2		22.8	22.3	21	19.8	18	15					
NSLA50-24/2	3		26.2	26	25.5	25	24	22.3					
NSLA50-28/2	4		31.5	31.3	31	30.5	29.5	28	25.5				
NSLA50-35/2	5.5		36.9	36.7	36.5	36.2	35.8	35	33.7	31.5			
NSLA50-40/2	7.5		42.3	42.2	41.9	41.7	41.3	40.8	40	38.3	35		
NSLA50-50/2	11		53.5	53.4	53.1	52.9	52.5	51.9	51.1	50	48.4	45.8	
NSLA50-60/2	15		65.7	65.8	65.7	65.6	65.3	64.7	63.9	62.8	61.6	60	55.4
NSLA50-70/2	18.5		73.7	73.6	73.4	73.3	73.1	72.9	72.5	72	71.2	70	65.4
NSLA50-81/2	22	85.5	85.3	85	84.8	84.5	84	83.5	82.8	82.1	81	77.1	

Dimension and weight

PUPM Model	Size(mm)											Weight (kg)
	D	B1	B2	B3	B4	B5	H1	H2	H3	L1	L2	
NSLA50-12/2	120	170	142	117	115	144	115	153	513	340	170	56
NSLA50-15/2	140	190	155	117	115	144	115	153	558	340	170	62
NSLA50-18/2	140	190	155	117	115	144	115	153	558	340	170	65
NSLA50-24/2	160	197	165	117	115	144	115	172	632	340	170	74
NSLA50-28/2	160	230	188	129	115	144	115	175	645	340	170	79
NSLA50-35/2	200	260	208	129	115	144	115	197	702	340	170	103
NSLA50-40/2	200	260	208	171	158	144	115	187	692	440	220	118
NSLA50-50/2	350	330	255	171	158	144	115	250	865	440	220	181
NSLA50-60/2	350	330	255	171	158	144	115	250	865	440	220	191
NSLA50-70/2	350	330	255	171	158	144	115	250	915	440	220	209
NSLA50-81/2	350	360	285	171	158	144	115	250	940	440	220	245

One phase motor and Explosion-proof motor's dimension have changed, check with Nuosai for detail.

NSLA65-*/2



Performance table

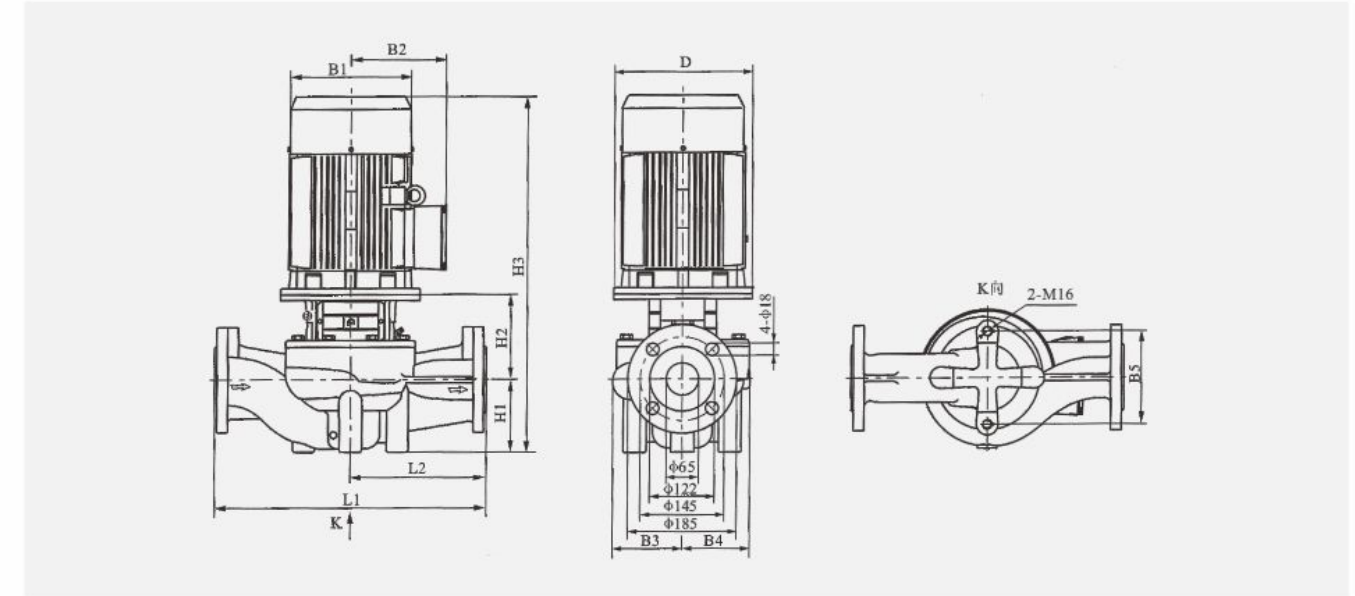
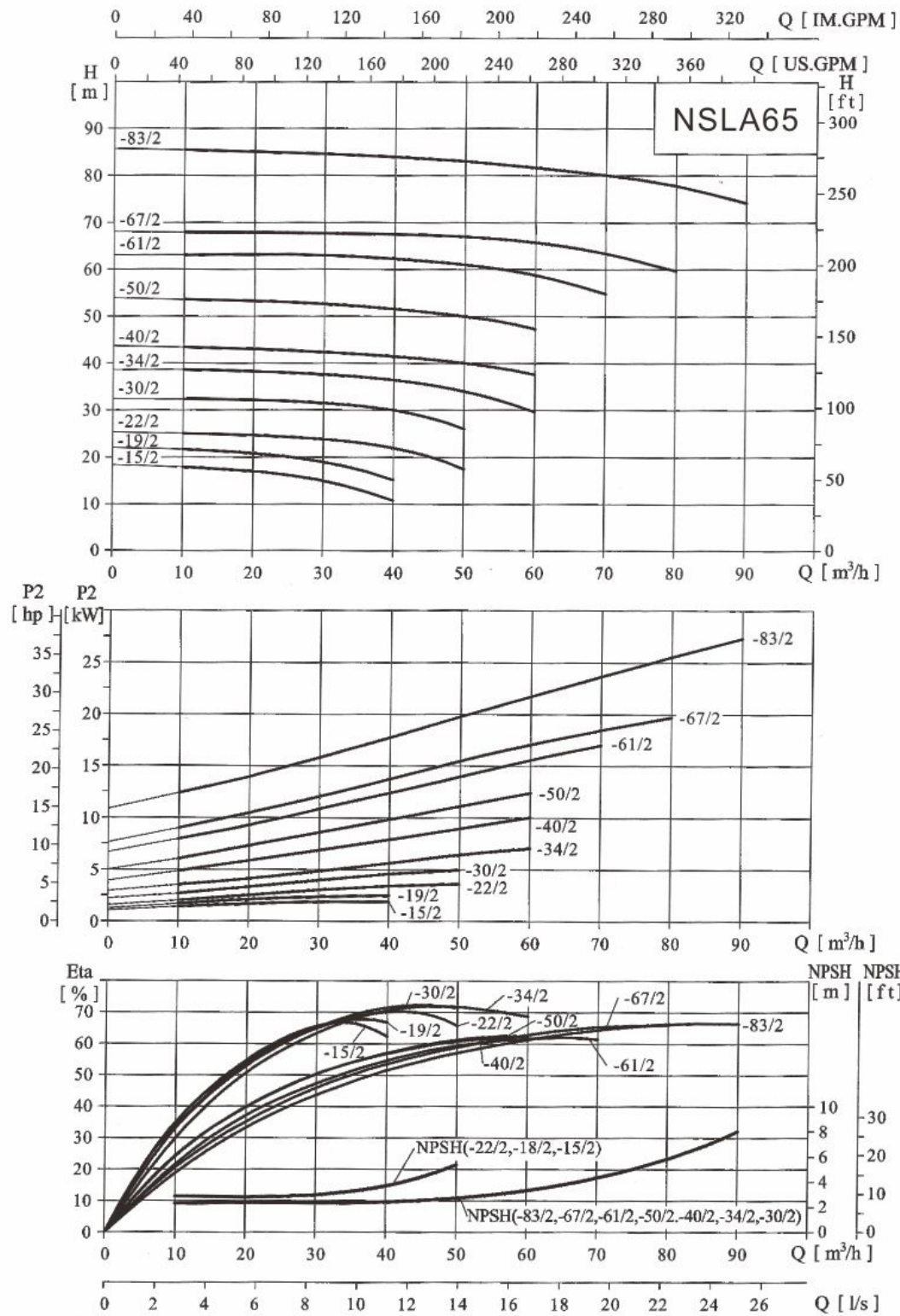
PUPM Model	Motor (Kw)	Q (m³/h)	5	10	15	20	25	30	35
NSLA65-36/2	5.5	H (m)	39.2	39.1	38.9	38.2	36	31.8	24.8
NSLA65-48/2	7.5		50.4	50.3	50	49.3	48	45.9	42.5

Dimension and weight

PUPM Model	Size(mm)											Weight (kg)
	D	B1	B2	B3	B4	B5	H1	H2	H3	L1	L2	
NSLA65-36/2	200	260	208	128	128	144	105	194	689	400	200	87
NSLA65-48/2	200	260	208	128	128	144	105	194	689	400	200	91

One phase motor and Explosion-proof motor's dimension have changed, check with Nuosai for detail.

NSLA65-**-*/2



Performance table

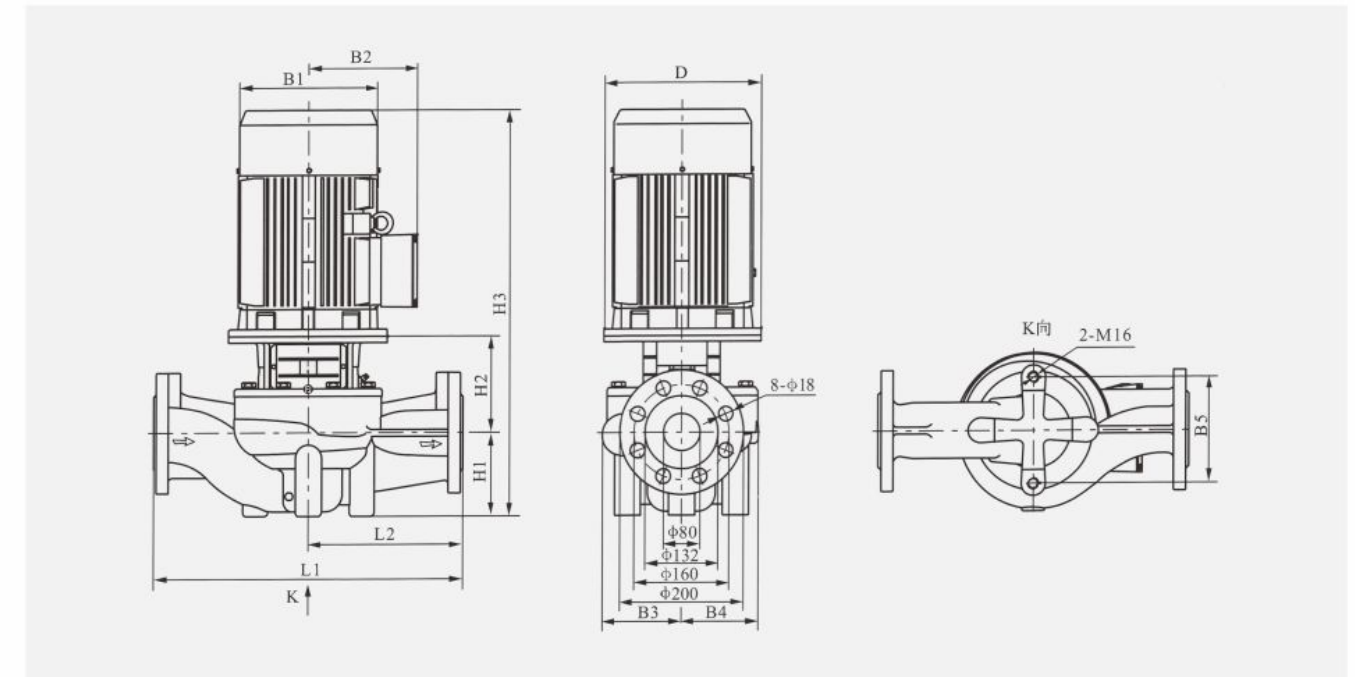
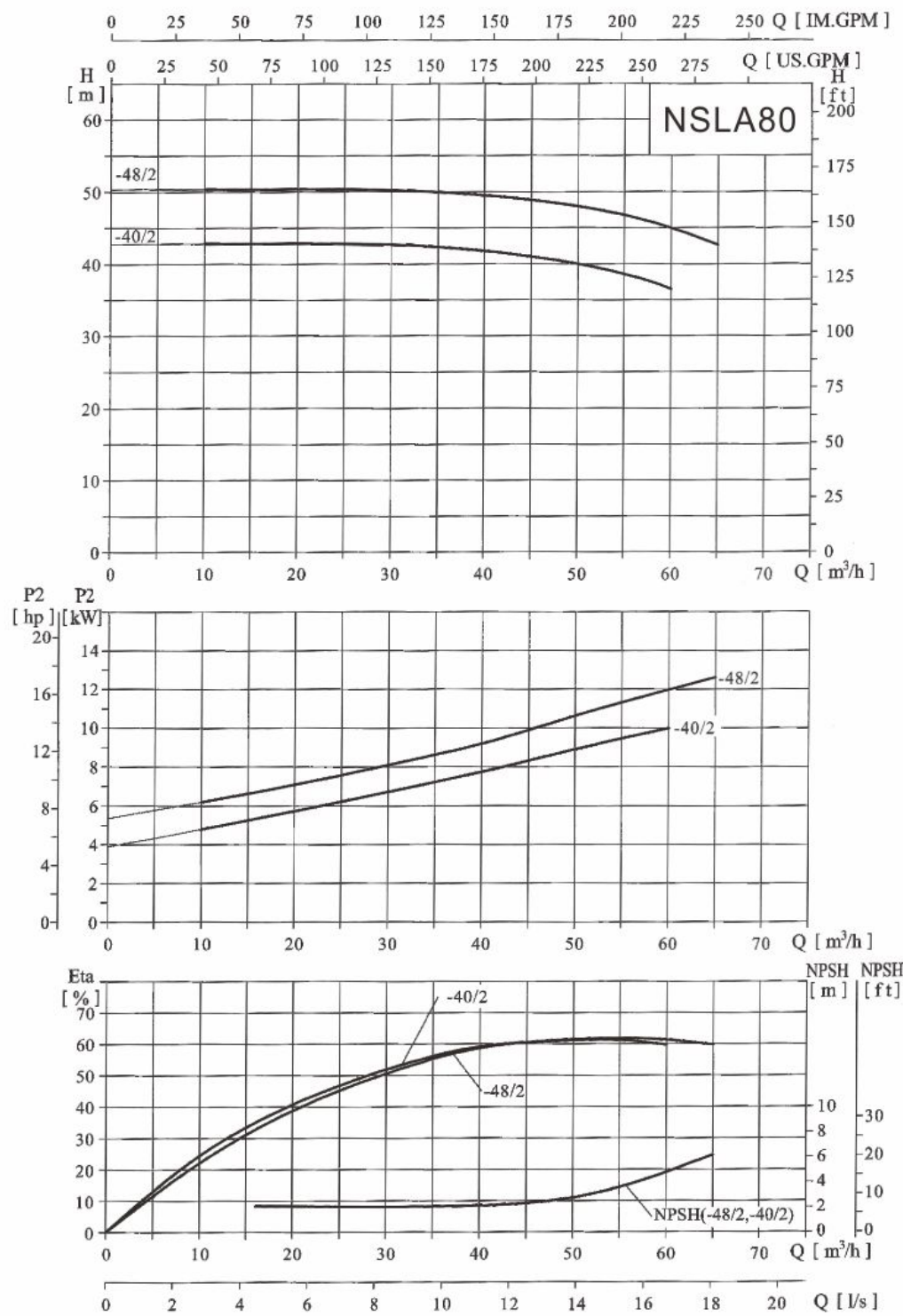
PUPM Model	Motor (Kw)	Q (m³/h)	10	20	30	40	50	60	70	80	90
NSLA65-15/2	2.2	H (m)	17.9	17	15	10.7					
NSLA65-19/2	3		21.7	20.8	19	15.2					
NSLA65-22/2	4		25.1	24.7	23.9	22	17.5				
NSLA65-30/2	5.5		32.4	32.1	31.5	30	26.1				
NSLA65-34/2	7.5		38.6	38.2	37.6	36.4	34	29.6			
NSLA65-40/2	11		43.4	42.9	42.3	41.4	40	37.6			
NSLA65-50/2	15		53.6	53.3	52.7	51.6	50	47.3			
NSLA65-61/2	18.5		63.1	63.2	63	62.3	61	58.8	54.8		
NSLA65-67/2	22		68	67.8	67.7	67.5	67	65.8	63.4	59.7	
NSLA65-83/2	30		85.4	85.1	84.6	83.9	83	81.7	80	77.8	74.2

Dimension and weight

PUPM Model	Size(mm)											Weight (kg)
	D	B1	B2	B3	B4	B5	H1	H2	H3	L1	L2	
NSLA65-15/2	140	190	155	142	124	144	105	172	567	360	180	65
NSLA65-19/2	160	197	165	142	124	144	105	191	641	360	180	74
NSLA65-22/2	160	230	188	142	124	144	105	191	651	360	180	81
NSLA65-30/2	200	260	208	142	124	144	105	213	708	360	180	105
NSLA65-34/2	200	260	208	142	124	144	105	213	708	360	180	108
NSLA65-40/2	350	330	255	179	167	144	125	262	887	475	238	183
NSLA65-50/2	350	330	255	179	167	144	125	262	887	475	238	193
NSLA65-61/2	350	330	255	179	167	144	125	262	937	475	238	210
NSLA65-67/2	350	330	255	179	167	144	125	262	962	475	238	248
NSLA65-83/2	400	400	310	179	167	144	125	262	1037	475	238	309

One phase motor and Explosion-proof motor's dimension have changed, check with Nuosai for detail.

NSLA80-*/2



Performance table

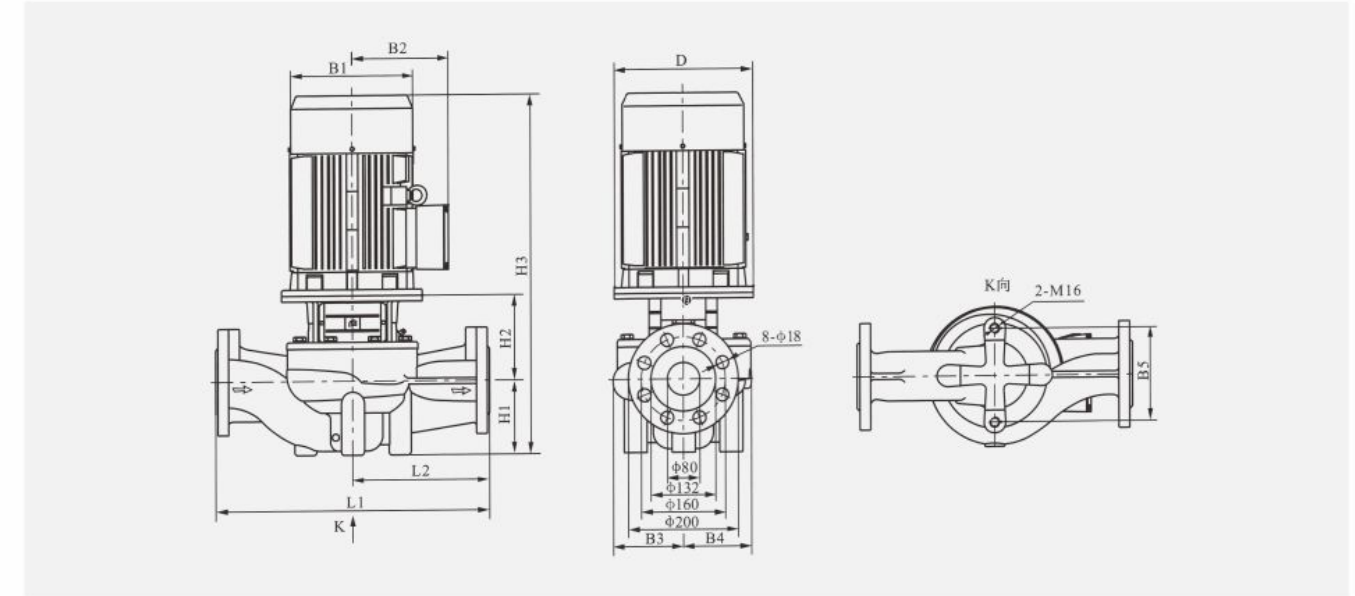
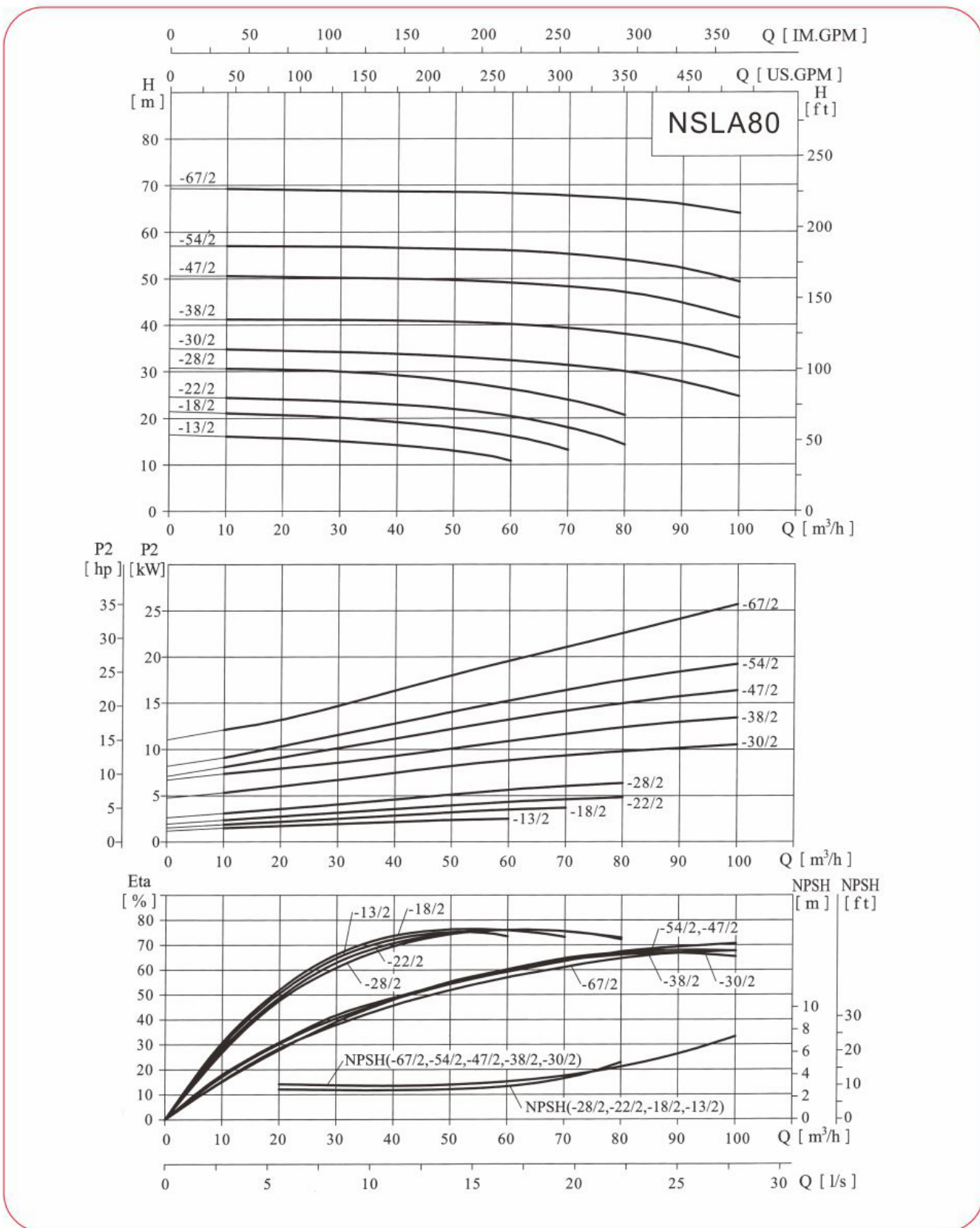
PUPM Model	Motor (Kw)	Q (m³/h)	10	20	30	40	50	60	65
NSLA80-40/2	11	H	42.8	42.8	42.7	41.8	40	36.5	
NSLA80-48/2	15	(m)	50.4	50.4	50.2	49.5	48	45	42.6

Dimension and weight

PUPM Model	Size(mm)											Weight (kg)
	D	B1	B2	B3	B4	B5	H1	H2	H3	L1	L2	
NSLA80-40/2	350	330	255	137	128	144	115	240	855	500	250	170
NSLA80-48/2	350	330	255	137	128	144	115	240	855	500	250	181

One phase motor and Explosion-proof motor's dimension have changed, check with Nuosai for detail.

NSLA80-*/2



Performance table

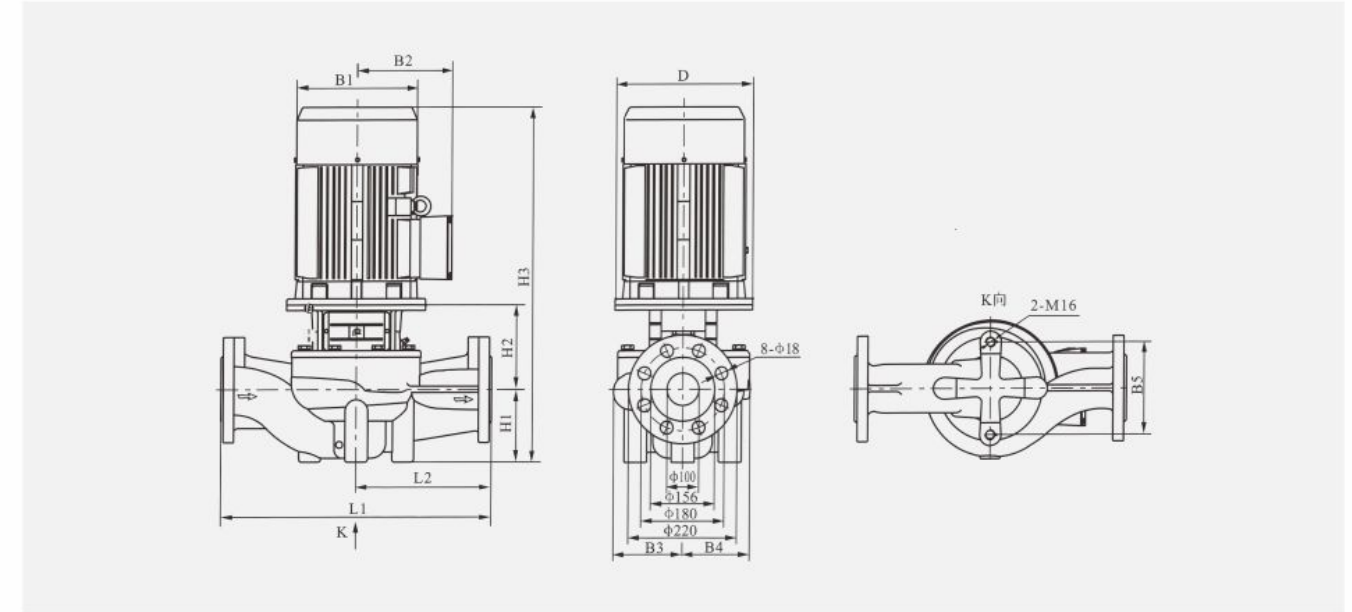
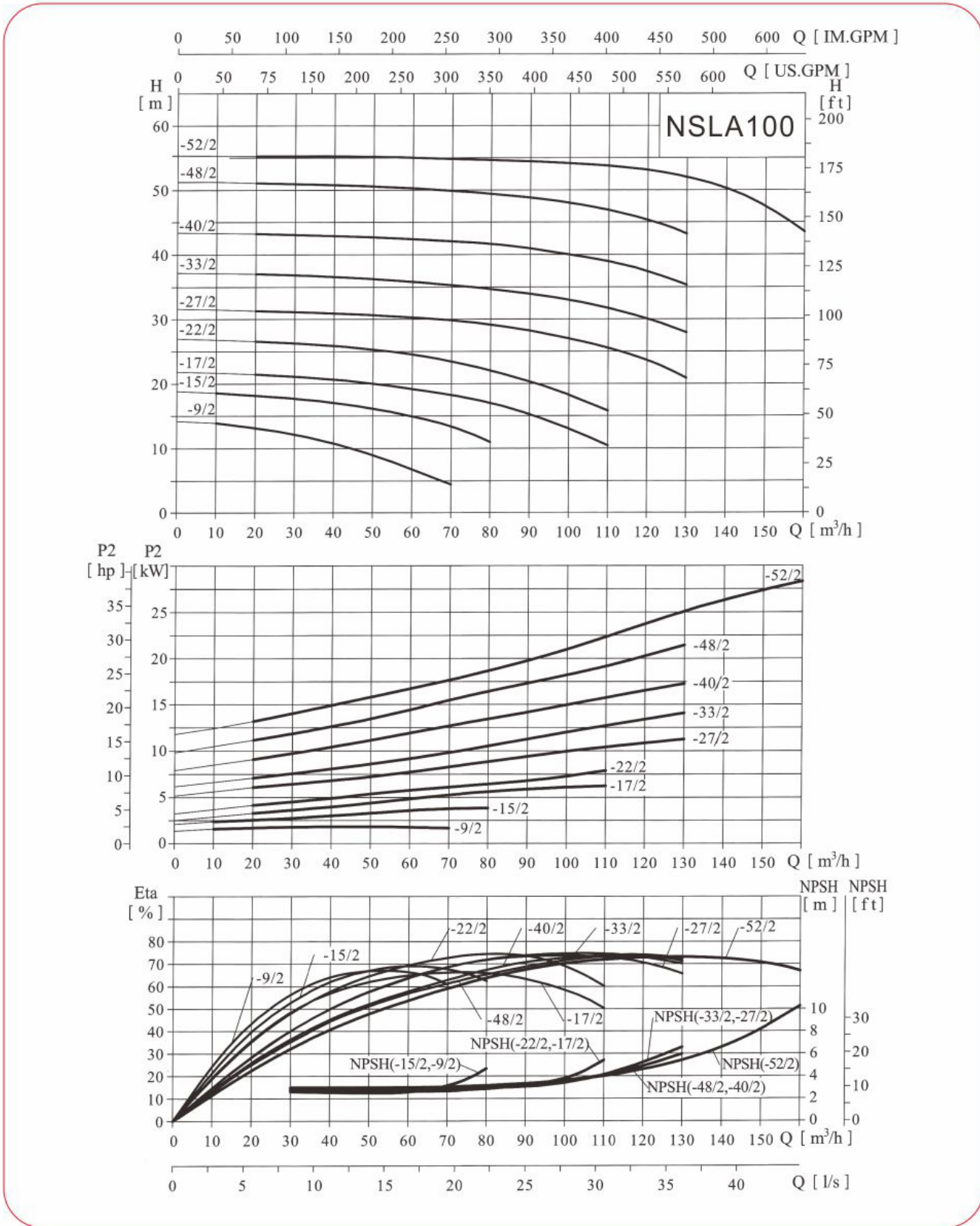
PUPM Model	Motor (Kw)	Q (m³/h)	10	20	30	40	50	60	70	80	90	100
NSLA80-13/2	3	H (m)	16.1	15.8	15.2	14.3	13	10.9				
NSLA80-18/2	4		21.1	20.8	20.2	19.2	18	16.2	13.2			
NSLA80-22/2	5.5		24.4	24.1	23.7	23	22	20.5	18	14.3		
NSLA80-28/2	7.5		30.6	30.4	30	29.3	28	26.3	24	20.6		
NSLA80-30/2	11		34.8	34.5	34.2	33.8	33.2	32.4	31.3	30	27.8	24.7
NSLA80-38/2	15		41.2	41.2	41.1	40.9	40.6	40.1	39.3	38	36	32.9
NSLA80-47/2	18.5		50.6	50.4	50	49.8	49.6	49.1	48.3	47	44.8	41.4
NSLA80-54/2	22		57	57	56.8	56.6	56.3	56	55.3	54	52.2	49.2
NSLA80-67/2	30		69.2	69	68.8	68.7	68.6	68.3	67.8	67	65.9	63.9

Dimension and weight

PUPM Model	Size(mm)											Weight (kg)
	D	B1	B2	B3	B4	B5	H1	H2	H3	L1	L2	
NSLA80-13/2	160	197	165	142	124	160	97	219	661	450	225	84
NSLA80-18/2	160	230	188	142	124	160	97	219	671	450	225	91
NSLA80-22/2	200	260	208	142	124	160	97	241	728	450	225	114
NSLA80-28/2	200	260	208	142	124	160	97	241	728	450	225	117
NSLA80-30/2	350	330	255	182	163	144	115	279	894	500	250	194
NSLA80-38/2	350	330	255	182	163	144	115	279	894	500	250	204
NSLA80-47/2	350	330	255	182	163	144	115	279	944	500	250	222
NSLA80-54/2	350	330	255	182	163	144	115	279	969	500	250	258
NSLA80-67/2	400	400	310	182	163	144	115	279	1044	500	250	319

One phase motor and Explosion-proof motor's dimension have changed, check with Nuosai for detail.

NSLA100-*/2



Performance table

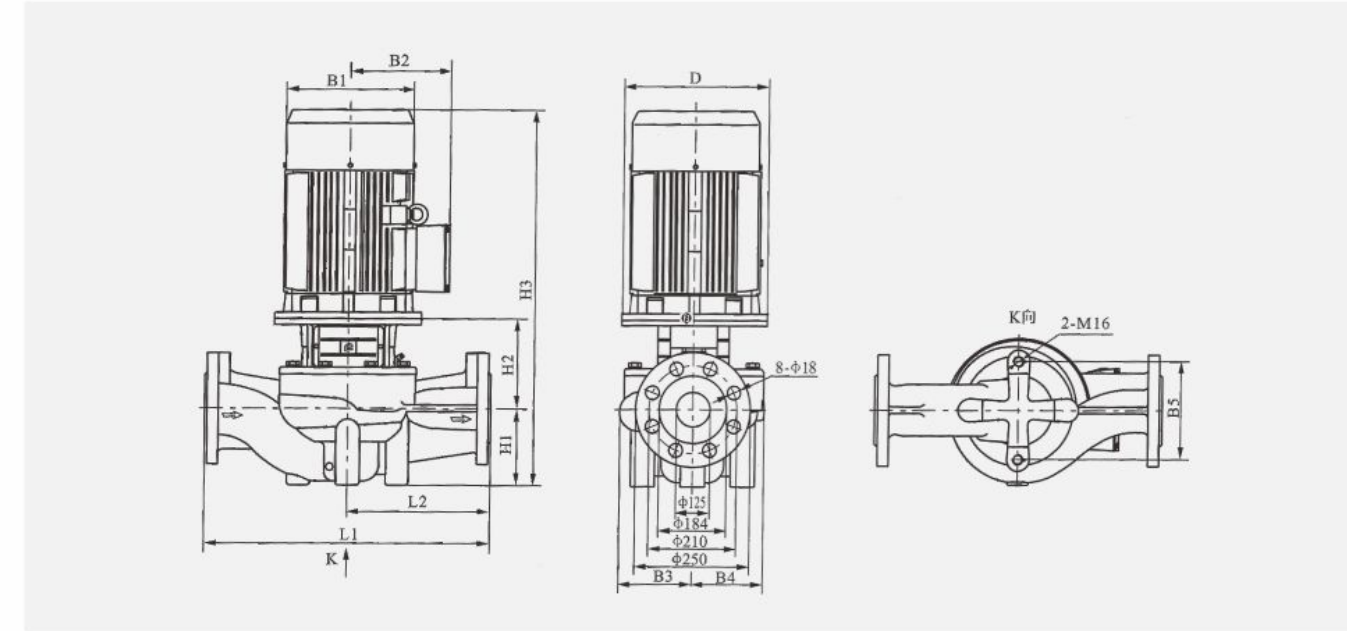
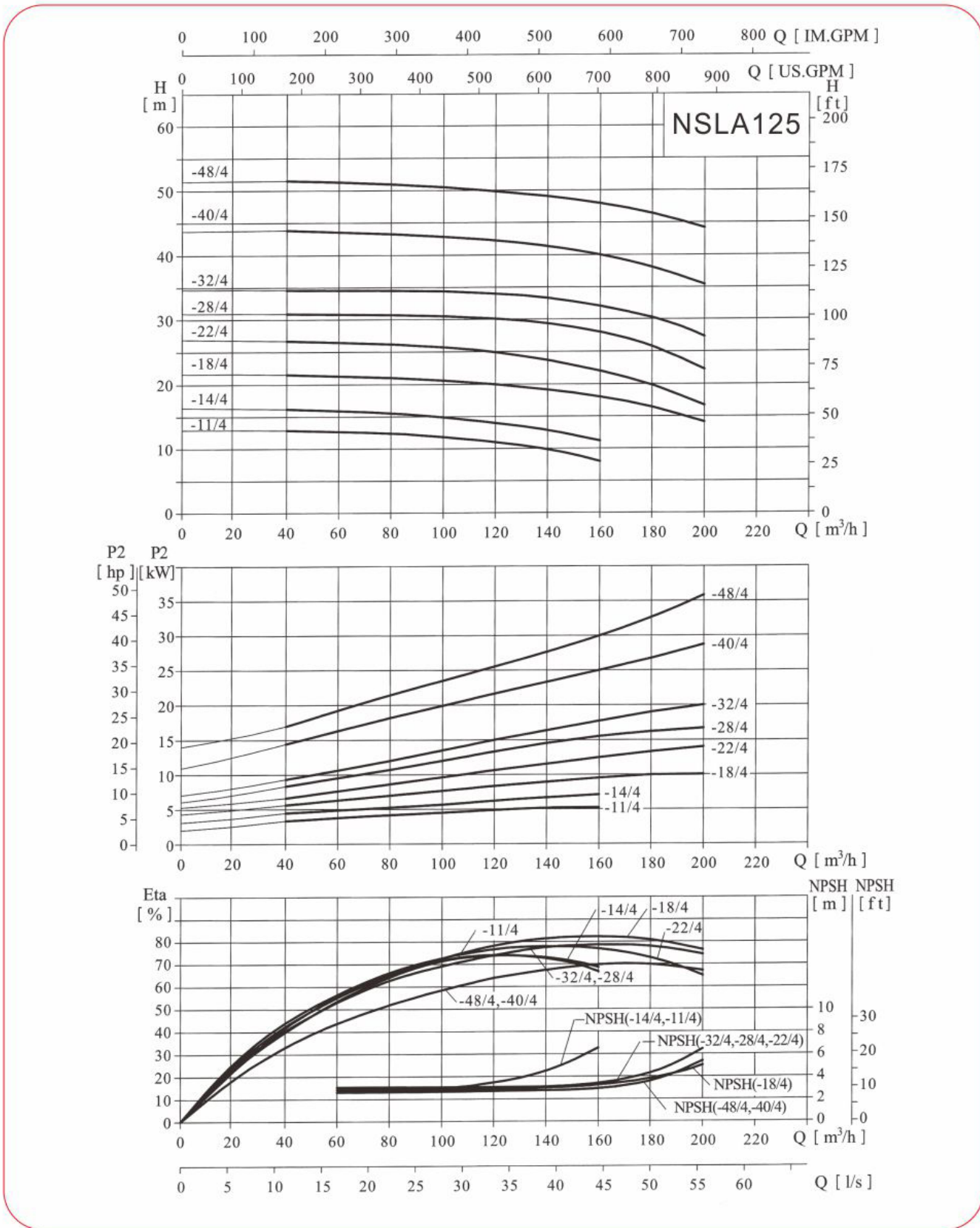
PUPM Model	Motor (Kw)	Q (m³/h)	10	20	30	40	50	60	70	80	90	100	110	120	130	145	160
NSLA100-9/2	2.2	H (m)	13.9	13.2	12.2	10.8	9	6.8	4.4								
NSLA100-15/2	4		18.6	18.2	17.7	17.1	16.2	15	13.4	11							
NSLA100-17/2	5.5		21.7	21.5	21.1	20.7	20	19.2	18.3	17	15.3	13	10.4				
NSLA100-22/2	7.5		26.8	26.6	26.3	25.9	25.3	24.5	23.4	22	20.3	18.2	15.8				
NSLA100-27/2	11		31.5	31.3	31.1	30.9	30.7	30.3	29.8	29.2	28.2	27	25.5	23.6	20.8		
NSLA100-33/2	15		37.1	37	36.8	36.6	36.2	35.8	35.3	34.7	33.9	33	31.7	30.1	27.9		
NSLA100-40/2	18.5		43.3	43.2	43.1	42.9	42.7	42.4	42.1	41.6	40.9	40	38.9	37.4	35.3		
NSLA100-48/2	22		51.2	51.1	51	50.8	50.6	50.3	49.9	49.4	48.8	48	46.9	45.3	43.2		
NSLA100-52/2	30		55.3	55.3	55.3	55.3	55.2	55.1	54.8	54.6	54.4	54.2	53.8	53.1	52	49	43.5

Dimension and weight

PUPM Model	Size(mm)											Weight (kg)
	D	B1	B2	B3	B4	B5	H1	H2	H3	L1	L2	
NSLA100-9/2	140	175	155	134	101	160	105	178	573	450	225	65
NSLA100-15/2	160	215	190	134	101	160	105	190	650	450	225	83
NSLA100-17/2	200	260	205	150	117	144	140	215	745	500	250	119
NSLA100-22/2	200	260	205	150	117	144	140	215	745	500	250	122
NSLA100-27/2	350	350	245	147	123	144	140	260	900	550	275	183
NSLA100-33/2	350	350	265	147	123	144	140	260	900	550	275	194
NSLA100-40/2	350	350	265	181	152	230	140	270	960	550	275	224
NSLA100-48/2	350	350	280	181	152	230	140	270	985	550	275	260
NSLA100-52/2	400	400	305	181	152	230	140	270	1060	550	275	318

One phase motor and Explosion-proof motor's dimension have changed, check with Nuosai for detail.

NSLA125-*/4



Performance table

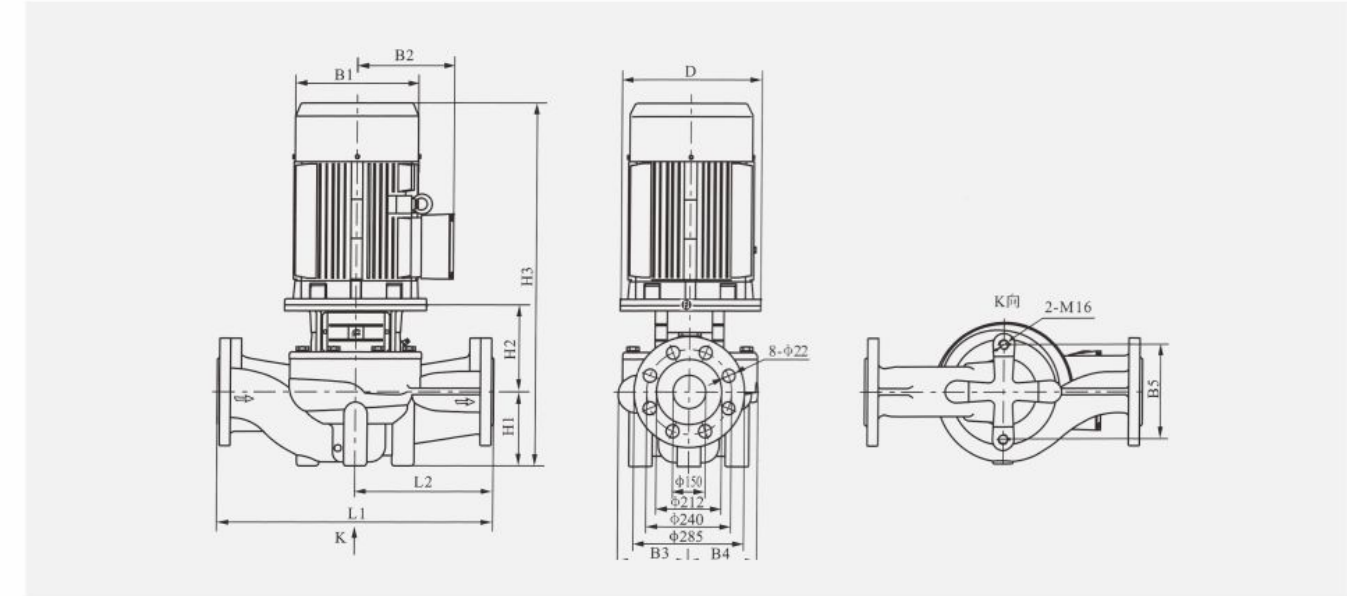
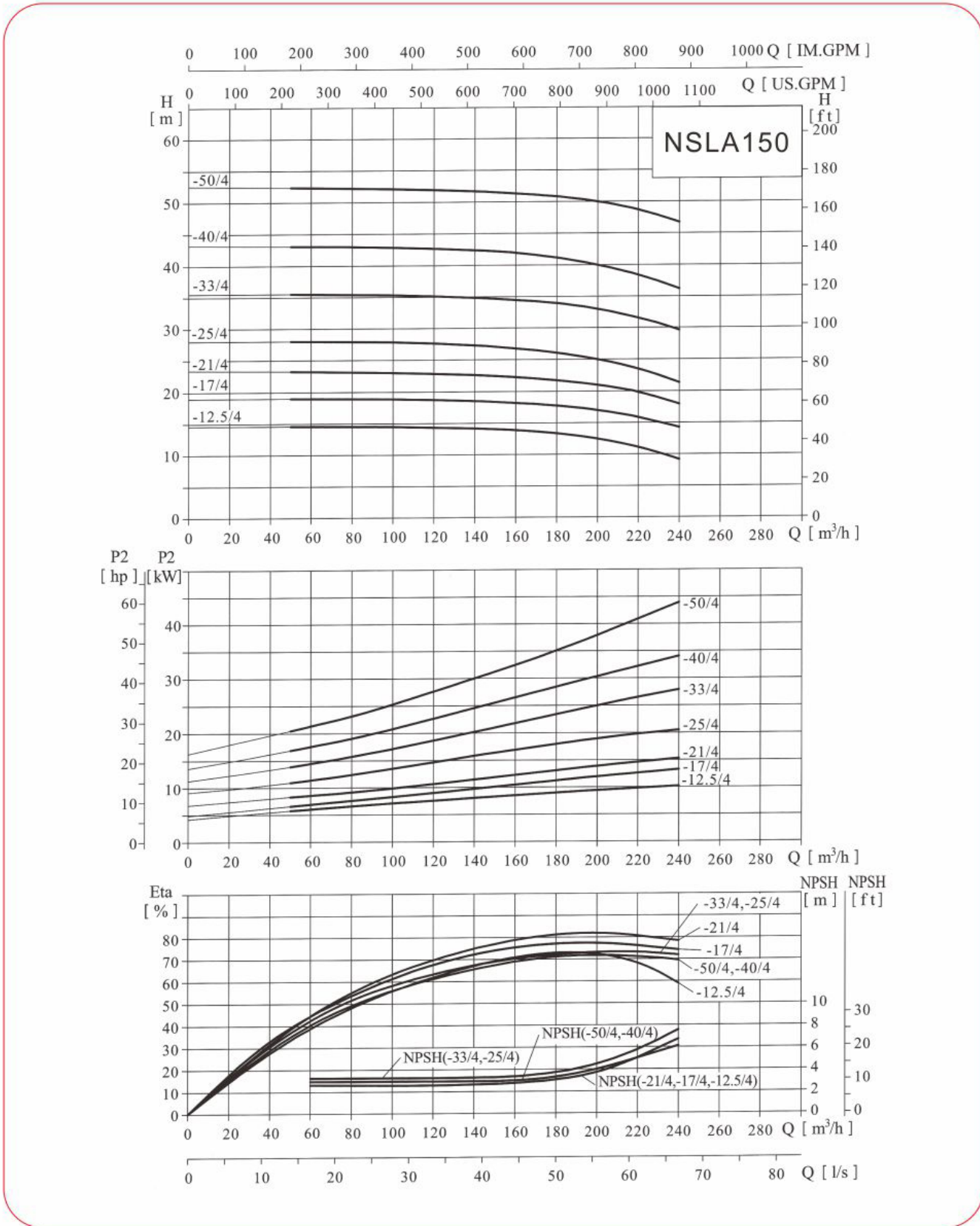
PUPM Model	Motor (Kw)	Q (m³/h)	40	60	80	100	120	140	160	180	200
NSLA125-11/4	5.5	H (m)	12.9	12.7	12.4	11.8	11	9.9	8		
NSLA125-14/4	7.5		16.2	15.9	15.5	14.9	14	12.8	11.2		
NSLA125-18/4	11		21.5	21.3	21	20.6	19.9	19.1	18	16.4	14.1
NSLA125-22/4	15		26.7	26.5	26.2	25.7	24.9	23.7	22	19.8	16.7
NSLA125-28/4	18.5		30.9	30.8	30.7	30.5	30.1	29.3	28	25.8	22.2
NSLA125-32/4	22		34.6	34.6	34.5	34.4	34	33.3	32	30.2	27.3
NSLA125-40/4	30		43.9	43.6	43.3	42.9	42.2	41.3	40	38	35.4
NSLA125-48/4	37		51.5	51.3	51	50.5	49.9	49.1	48	46.4	44.2

Dimension and weight

PUPM Model	Size(mm)													Weight (kg)
	D	B1	B2	B3	B4	B5	H1	H2	H2*	H3	H3*	L1	L2	
NSLA125-11/4	200	260	208	216	176	230	215	228	-	873	-	620	310	166(-)
NSLA125-14/4	200	260	208	216	176	230	215	228	-	873	-	620	310	179(-)
NSLA125-18/4	350	330	255	211	177	230	215	276	376	989	1089	800	400	257(265)
NSLA125-22/4	350	330	255	236	208	230	215	292	395	1047	1150	800	400	302(314)
NSLA125-28/4	350	330	255	236	208	230	215	292	395	1084	1187	800	400	321(348)
NSLA125-32/4	350	330	255	236	208	230	215	292	395	1122	1225	800	400	356(362)
NSLA125-40/4	400	400	310	272	248	230	215	315	411	1179	1275	800	400	442(460)
NSLA125-48/4	450	450	325	272	248	230	215	315	442	1204	1331	800	400	498(528)

Remark: The dimension with and the weight in the “-” refer to detachable pump. One phase Explosion-proof motor's dimension have changed, check with Nuosai for detail.

NSLA150-*/4



Performance table

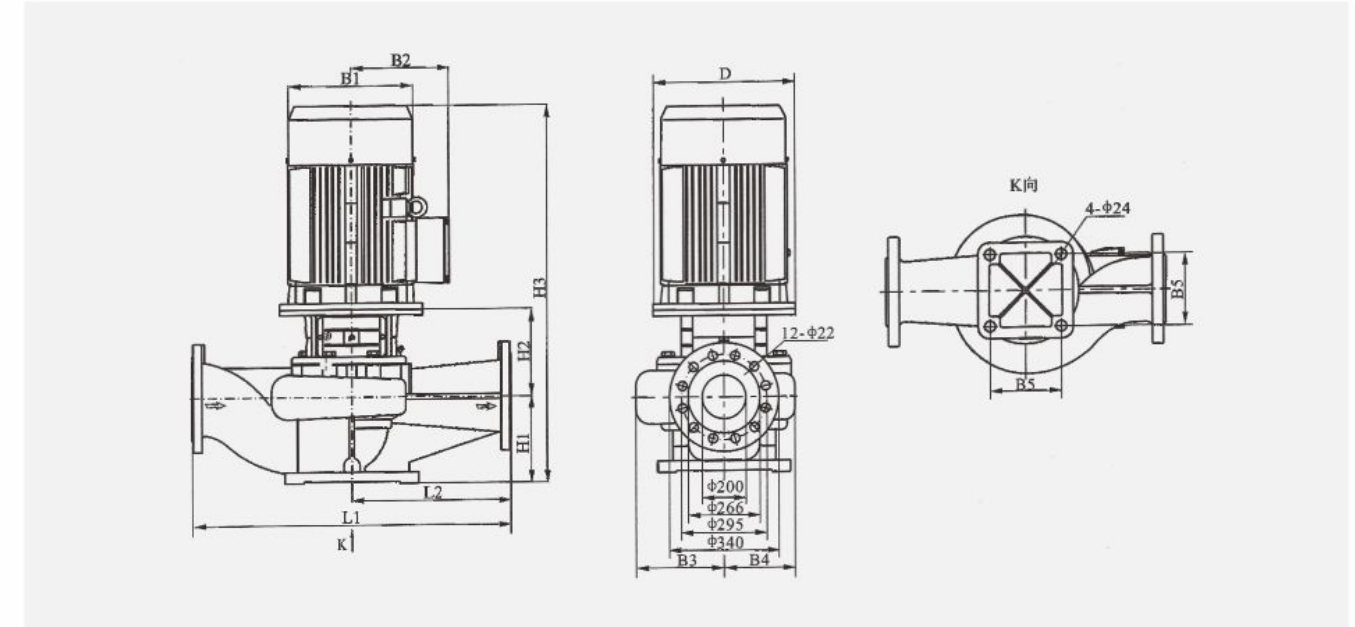
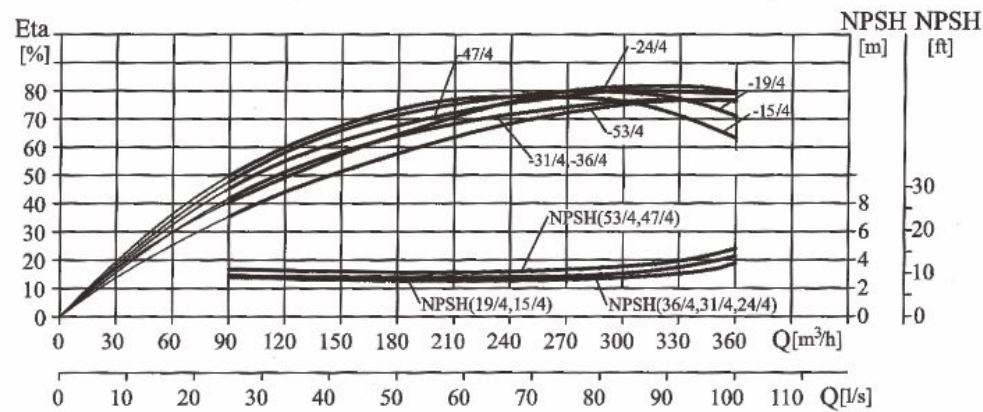
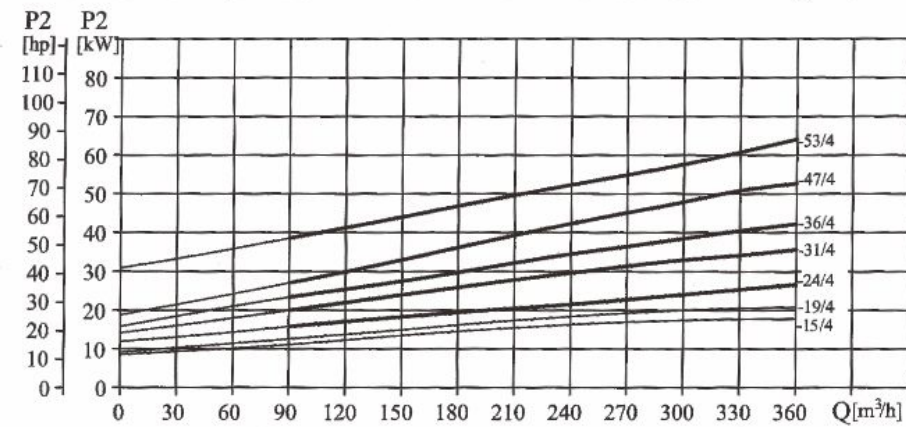
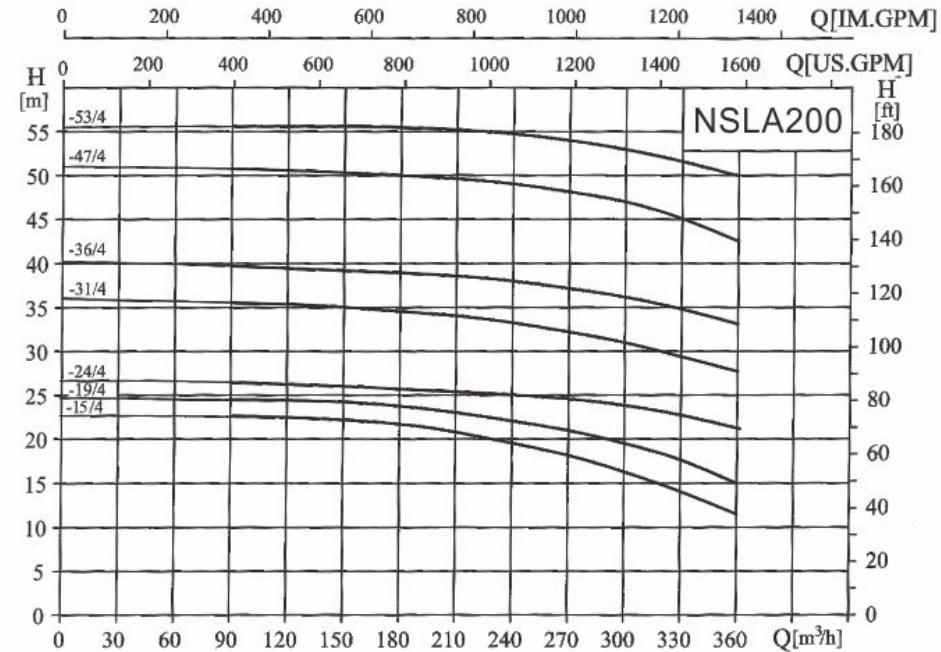
PUPM Model	Motor (Kw)	Q (m³/h)	50	80	110	140	170	200	220	240
NSLA150-12.5/4	11	H (m)	14.6	14.5	14.4	14.2	13.7	12.5	11.1	9.2
NSLA150-17/4	15		18.8	18.8	18.7	18.5	18	17	16.1	15
NSLA150-21/4	18.5		23.3	23.1	22.9	22.6	22	21	19.8	17.9
NSLA150-25/4	22		28	28	27.8	27.3	26.5	25	23.5	21.3
NSLA150-33/4	30		35.5	35.4	35.2	34.8	34.2	33	31.5	29.6
NSLA150-40/4	37		43.1	43	42.8	42.4	41.6	40	38.4	36.2
NSLA150-50/4	45		52.4	52.2	52	51.7	51.1	50	48.7	46.7

Dimension and weight

PUPM Model	Size(mm)													Weight (kg)
	D	B1	B2	B3	B4	B5	H1	H2	H2*	H3	H3*	L1	L2	
NSLA150-12.5/4	350	315	250	217	180	230	215	272	372	985	1085	800	400	257(271)
NSLA150-17/4	350	315	250	217	180	230	215	272	372	1027	1127	800	400	278(291)
NSLA150-21/4	350	360	275	217	180	230	215	272	372	1064	1164	800	400	313(325)
NSLA150-25/4	350	360	275	238	208	230	215	269	372	1099	1202	800	400	354(373)
NSLA150-33/4	400	400	305	238	208	230	215	269	385	1133	1249	800	400	406(425)
NSLA150-40/4	450	450	325	267	248	230	230	288	416	1188	1316	900	450	511(537)
NSLA150-50/4	450	450	325	267	248	230	230	288	416	1215	1343	900	450	548(573)

Note: The size * in this table is the size of detachable pipeline pump; the weight in parentheses is the weight of the detachable pipeline pump; "-" means no such structure. Explosion-proof motor's dimension have changed, check with Nuosai for detail.

NSLA200-*/4



Performance table

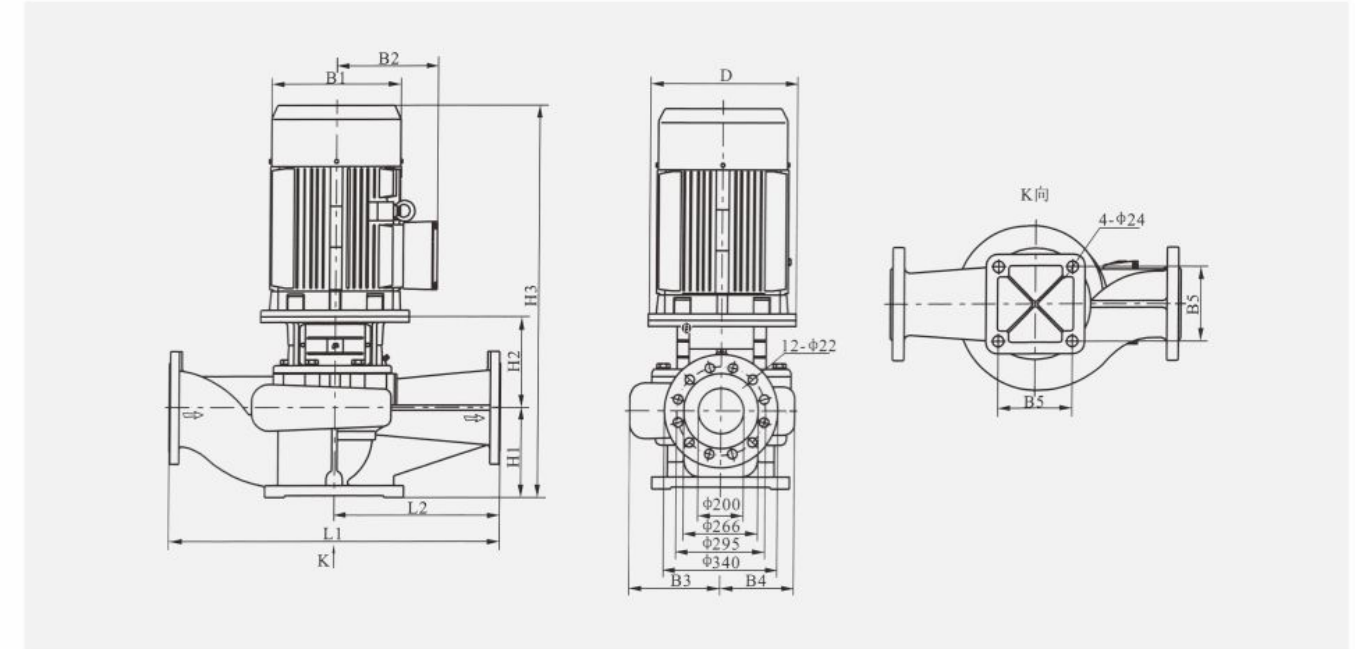
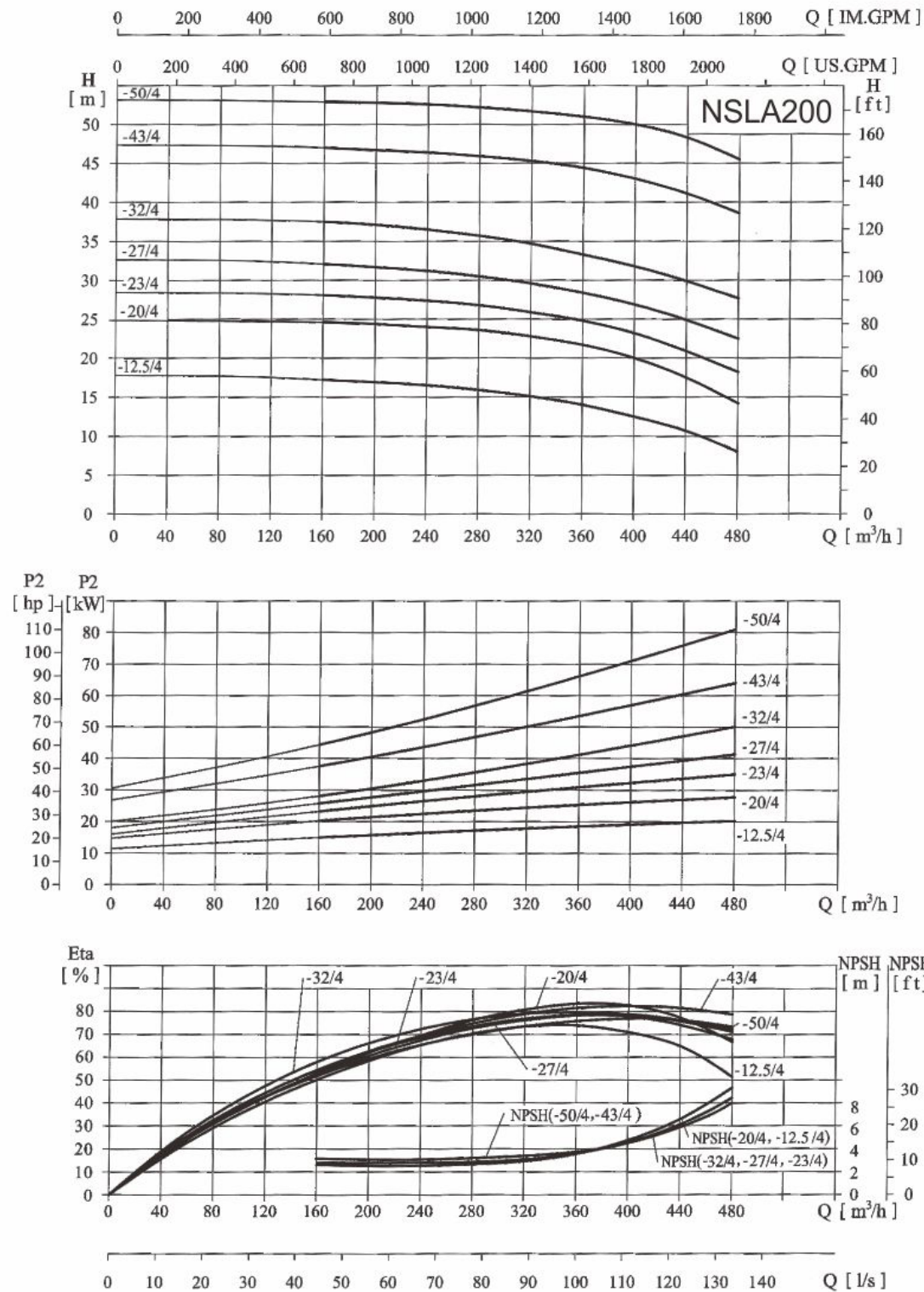
PUPM Model	Motor (Kw)	Q (m³/h)	90	120	150	180	210	240	270	300	330	360
NSLA200-15/4	18.5	H (m)	22.6	22.4	22.2	21.7	20.7	19.4	18.1	16	14	11.5
NSLA200-19/4	22		24.4	24.3	24.2	23.7	23	22	20.9	19	17.6	15
NSLA200-24/4	30		26.1	26	25.8	25.7	25.4	25.1	24.6	24	23.1	21.5
NSLA200-31/4	37		35.4	35.3	35	34.5	33.9	33.2	32.2	31	29.3	27.6
NSLA200-36/4	45		39.6	39.4	39.1	38.8	38.5	37.9	37	36	34.7	33
NSLA200-47/4	55		50.6	50.5	50.2	49.8	49.5	48.9	48	47	44.9	42.4
NSLA200-53/4	75		55.7	55.7	55.7	55.5	55.3	54.8	54	53	51.6	50

Dimension and weight

PUPM Model	Size(mm)											Weight (kg)
	D	B1	B2	B3	B4	B5	H1	H2	H3	L1	L2	
NSLA200-15/4	350	360	280	278	219	360	270	415	1265	1000	500	417
NSLA200-19/4	350	360	280	278	219	360	270	415	1305	1000	500	434
NSLA200-24/4	400	400	305	303	252	360	270	415	1335	1100	550	537
NSLA200-31/4	450	450	335	303	252	360	270	445	1395	1100	550	602
NSLA200-36/4	450	450	335	303	252	360	270	445	1420	1100	550	648
NSLA200-47/4	550	490	365	315	269	360	270	457	1517	1100	550	744
NSLA200-53/4	550	550	400	315	269	360	270	457	1587	1100	550	877

One phase motor and Explosion-proof motor's dimension have changed, check with Nuosai for detail.

NSLA200-*/4



Performance table

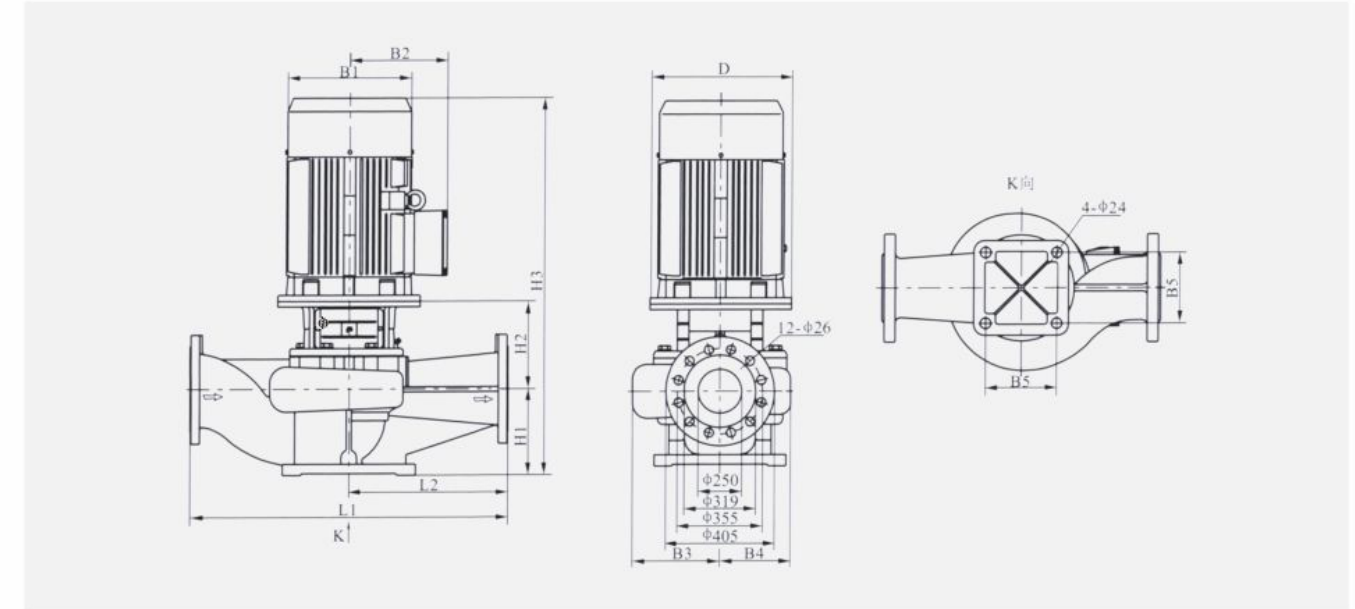
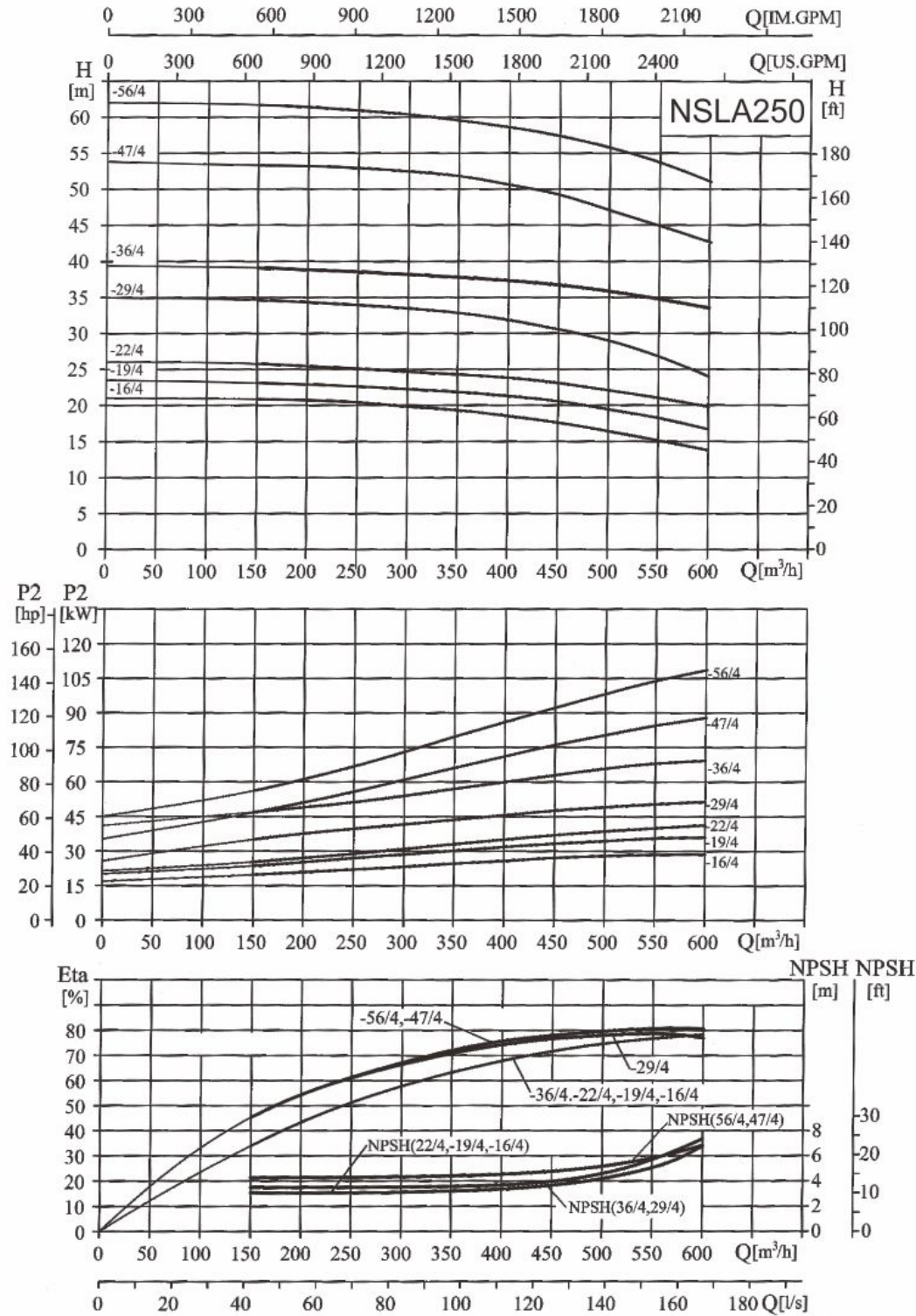
PUPM Model	Motor (Kw)	Q (m³/h)	160	200	240	280	320	360	400	440	480
NSLA200-12.5/4	22	H (m)	17.2	16.9	16.5	15.9	15.1	14	12.5	10.7	8
NSLA200-20/4	30		24.6	24.4	24	23.6	22.8	21.7	20	17.5	14.2
NSLA200-23/4	37		28.1	27.8	27.4	26.8	25.9	24.8	23	20.9	18.2
NSLA200-27/4	45		32.1	31.7	31.2	30.5	29.6	28.4	27	24.9	22.5
NSLA200-32/4	55		37.5	37.1	36.5	35.7	34.7	33.3	32	29.9	27.7
NSLA200-43/4	75		47	46.7	46.4	45.9	45.3	44.4	43	41.1	38.6
NSLA200-50/4	90		52.9	52.8	52.6	52.2	51.7	51	50	48.3	45.5

Dimension and weight

PUPM Model	Size(mm)										Weight (kg)	
	D	B1	B2	B3	B4	B5	H1	H2	H3	L1		L2
NSLA200-12.5/4	350	360	280	278	219	360	270	415	1300	1000	500	432
NSLA200-20/4	400	400	305	278	219	360	270	415	1334	1000	500	492
NSLA200-23/4	450	450	335	303	252	360	270	445	1389	1100	550	602
NSLA200-27/4	450	450	335	303	252	360	270	445	1412	1100	550	638
NSLA200-32/4	550	490	365	303	252	360	270	445	1488	1100	550	710
NSLA200-43/4	550	550	400	315	269	360	270	457	1556	1100	550	883
NSLA200-50/4	550	550	400	315	269	360	270	457	1607	1100	550	975

Explosion-proof motor's dimension have changed, check with Nuosai for detail.

NSLA250-*/4



Performance table

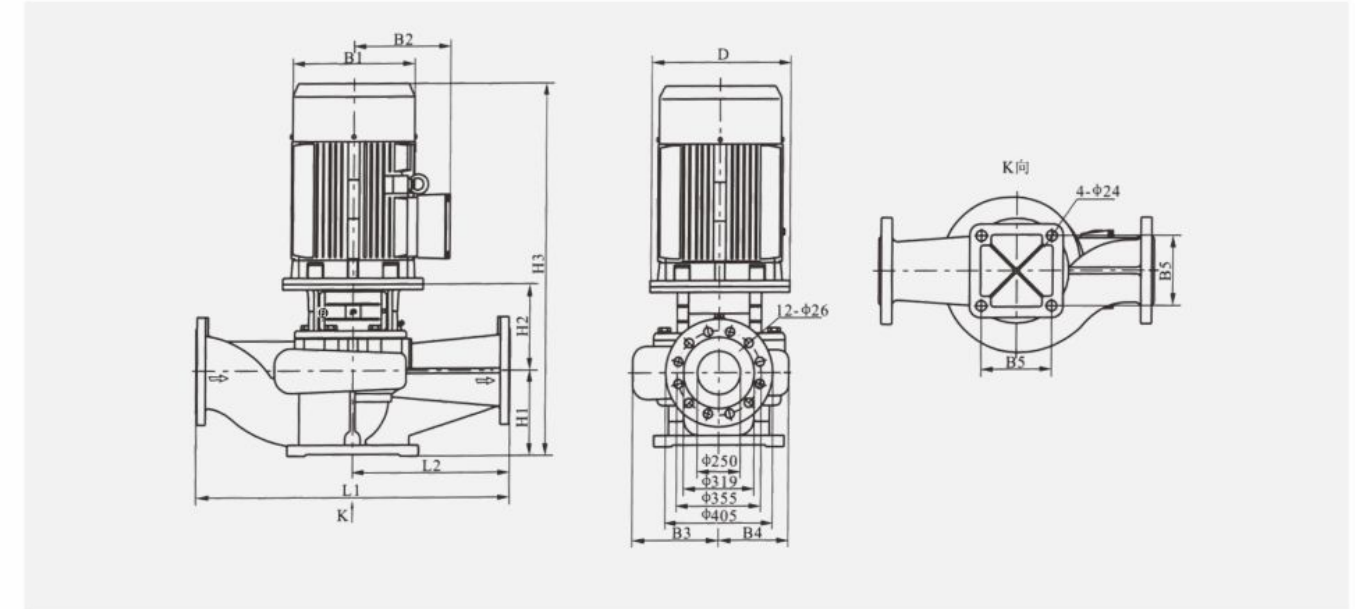
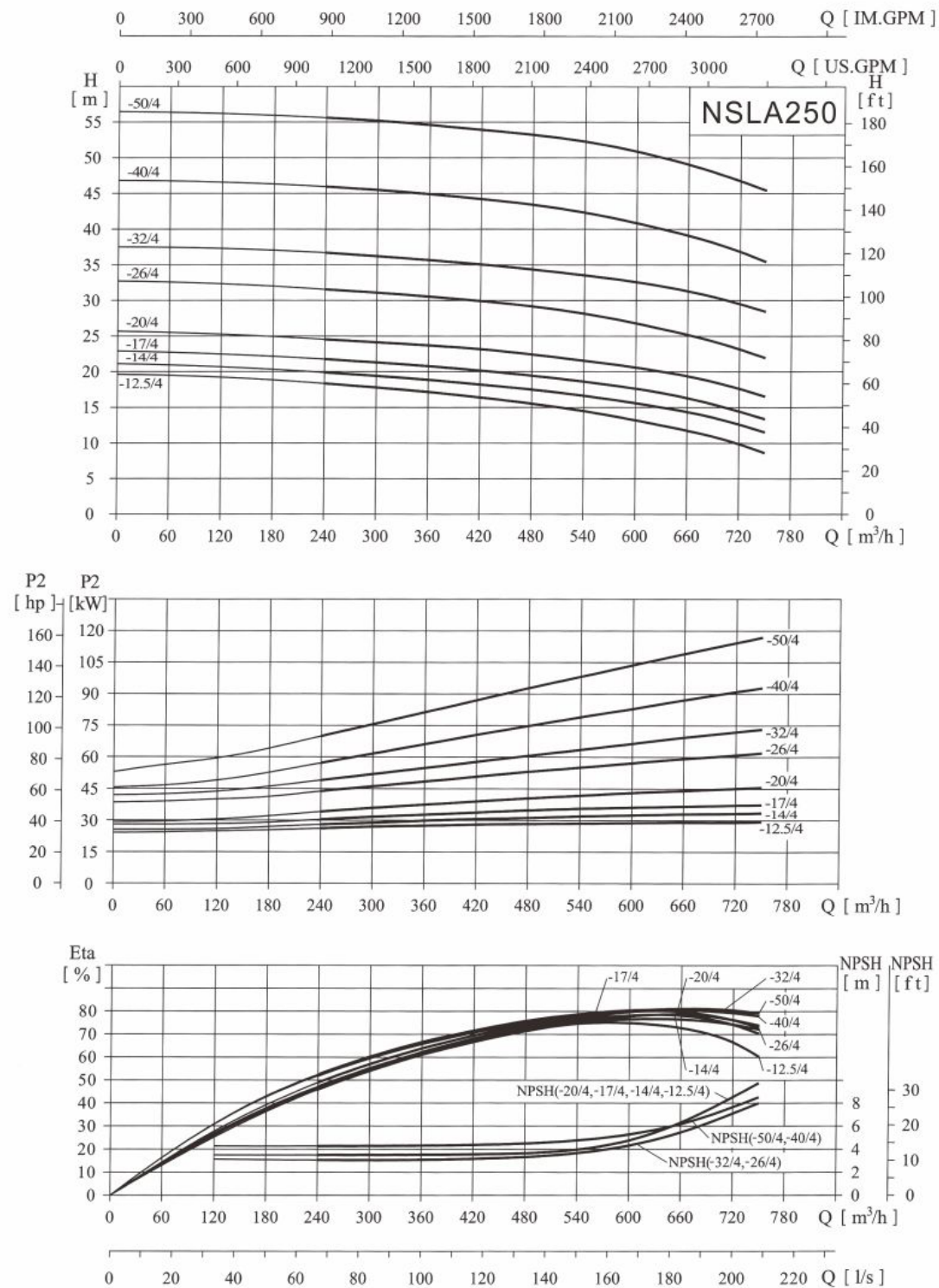
PUPM Model	Motor (Kw)	Q (m³/h)	150	200	250	300	350	400	450	500	550	600
NSLA250-16/4	30	H (m)	20.5	20.4	20.1	19.6	19	18.2	17.3	16	14.7	13.3
NSLA250-19/4	37		22.7	22.4	22.1	21.7	21.3	20.8	20.1	19	17.9	16.6
NSLA250-22/4	45		25.7	25.3	25.1	24.7	24.3	23.8	23.1	22	21	19.7
NSLA250-29/4	55		34.6	34.4	34	34.4	32.6	31.8	30.6	29	26.8	23.9
NSLA250-36/4	75		39.1	38.8	38.5	38.2	37.8	37.3	36.8	36	34.3	32.5
NSLA250-47/4	90		53.3	53.1	52.9	52.4	51.8	50.6	49.2	47	45	42.5
NSLA250-56/4	110		61.6	61.4	60.9	60.2	59.5	58.6	57.4	56	53.8	51

Dimension and weight

PUPM Model	Size(mm)											Weight (kg)
	D	B1	B2	B3	B4	B5	H1	H2	H3	L1	L2	
NSLA250-16/4	400	400	305	316	243	390	300	465	1430	1100	550	550
NSLA250-19/4	450	450	335	316	243	390	300	495	1475	1100	550	611
NSLA250-22/4	450	450	335	316	243	390	300	495	1500	1100	550	647
NSLA250-29/4	550	490	365	329	264	440	300	507	1597	1100	550	773
NSLA250-36/4	550	550	400	329	264	440	300	507	1667	1100	550	909
NSLA250-47/4	550	550	400	347	292	440	305	485	1700	1200	600	1030
NSLA250-56/4	660	625	555	347	292	440	305	525	1860	1200	600	1389

One phase motor and Explosion-proof motor's dimension have changed, check with Nuosai for detail.

NSLA250-*/4



Performance table

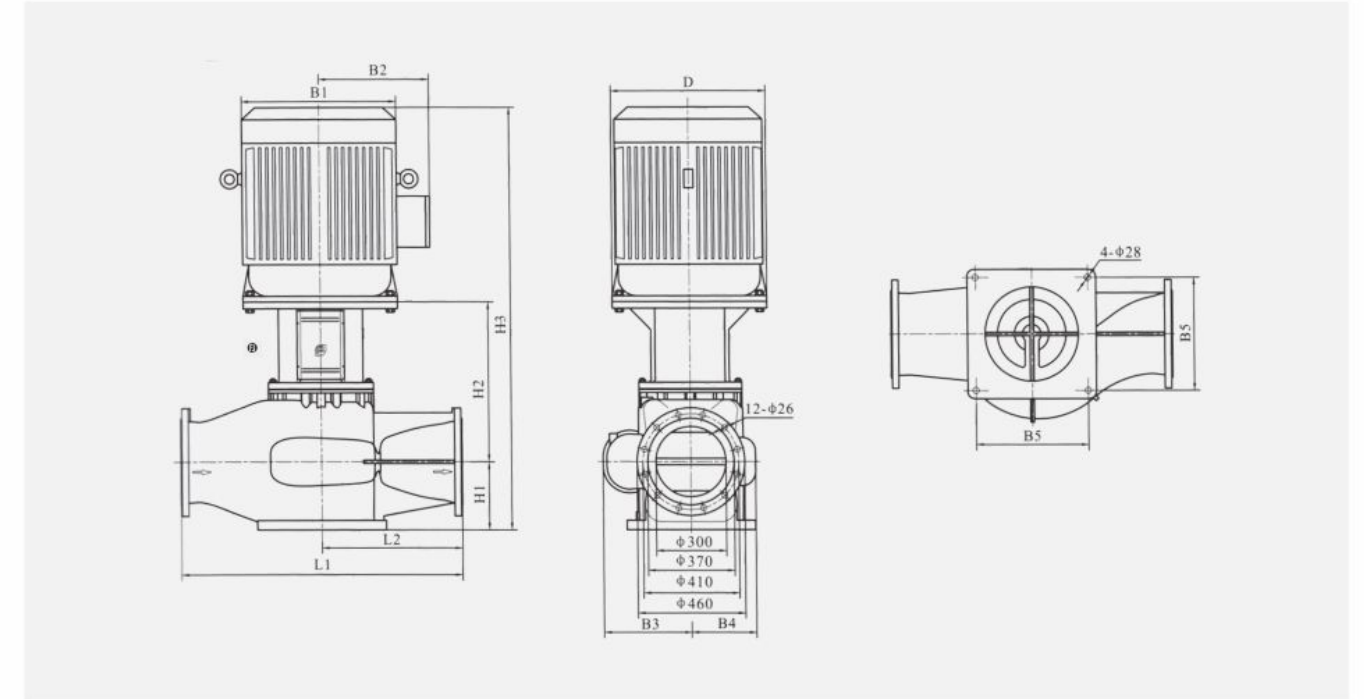
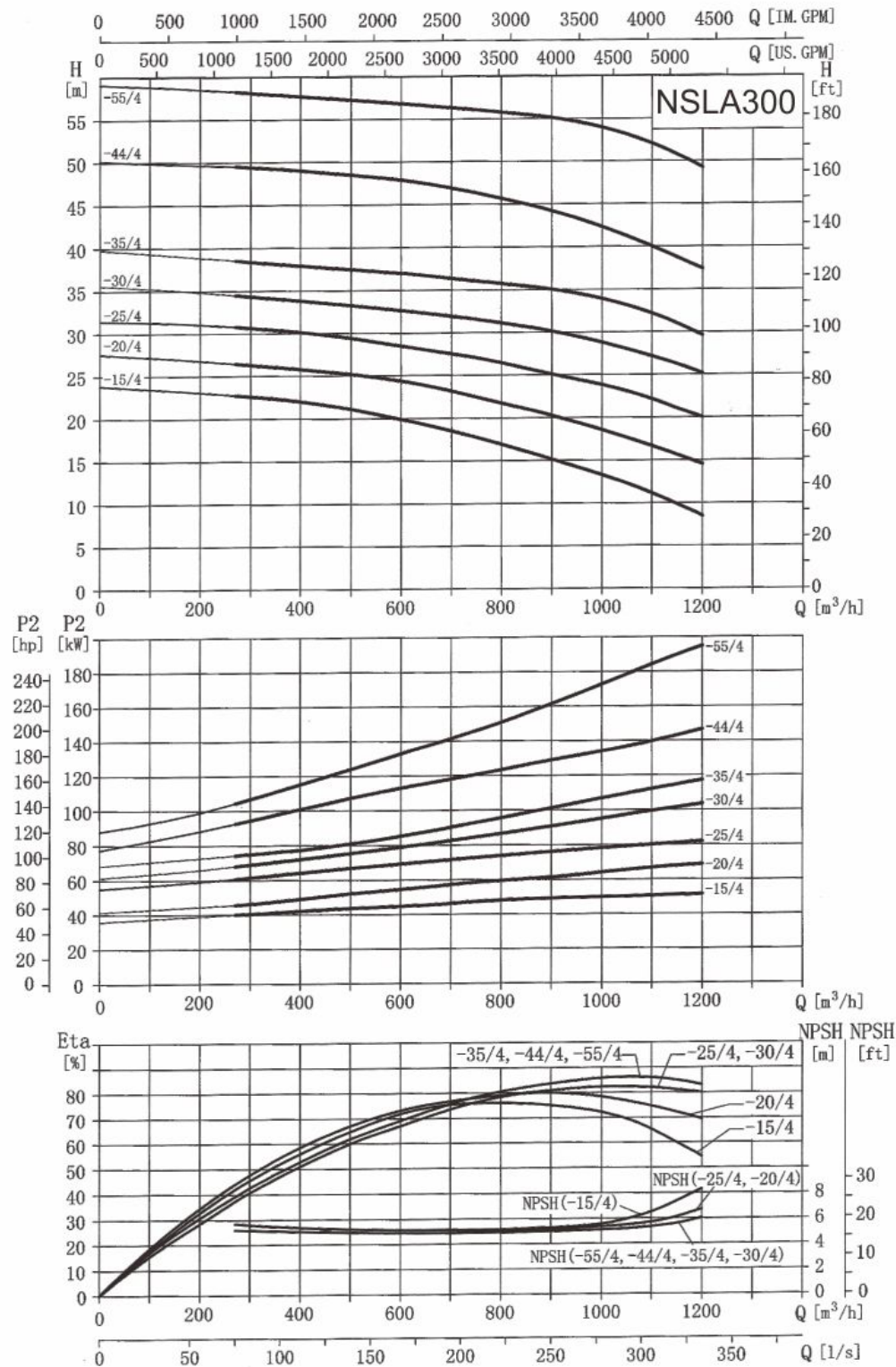
PUPM Model	Motor (Kw)	Q (m³/h)	240	300	360	420	480	540	600	630	660	720	750
NSLA250-12.5/4	30	H (m)	18.4	17.9	17.2	16.4	15.5	14.5	13.2	12.5	11.8	9.9	8.7
NSLA250-14/4	37		20	19.5	18.9	18.2	17.5	16.6	15.6	14	13.4	12.6	11.6
NSLA250-17/4	45		21.8	21.3	20.8	20.1	19.4	18.6	17.6	17	16.3	14.4	13.4
NSLA250-20/4	55		24.5	24.1	23.7	23.1	22.4	21.5	20.5	20	19.3	17.6	16.5
NSLA250-26/4	75		31.7	31.1	30.6	29.9	29.1	28.2	26.8	26	25.2	23.1	21.9
NSLA250-32/4	90		36.7	36.3	35.7	35.1	34.3	33.5	32.6	32	31.3	29.5	28.4
NSLA250-40/4	110		46	45.5	44.9	44.2	43.4	42.3	40.8	40	39.1	36.8	35.5
NSLA250-50/4	132		55.6	55.2	54.6	53.9	53.2	52.3	50.9	50	49	46.7	45.4

Dimension and weight

PUPM Model	Size(mm)											Weight (kg)
	D	B1	B2	B3	B4	B5	H1	H2	H3	L1	L2	
NSLA250-12.5/4	400	400	305	316	243	390	300	465	1414	1100	550	552
NSLA250-14/4	450	450	335	316	243	390	300	495	1469	1100	550	613
NSLA250-17/4	450	450	335	316	243	390	300	495	1492	1100	550	649
NSLA250-20/4	550	490	365	316	243	390	300	495	1568	1100	550	722
NSLA250-26/4	550	550	400	329	264	440	300	507	1636	1100	550	909
NSLA250-32/4	550	550	400	329	264	440	300	507	1687	1100	550	999
NSLA250-40/4	660	625	555	347	292	440	305	525	1840	1200	600	1389
NSLA250-50/4	660	625	555	347	292	440	305	525	1990	1200	600	1473

Explosion-proof motor's dimension have changed, check with Nuosai for detail.

NSLA300-*/4



Performance table

PUPM Model	Motor (Kw)	Q (m³/h)	270	360	450	630	750	900	1080	1200
NSLA300-15/4	55	H (m)	22.7	22.3	21.6	19.5	17.8	15	11.6	8.5
NSLA300-20/4	75		26.4	26	25.5	24.1	22.4	20	17.1	14.5
NSLA300-25/4	90		30.8	30.4	29.8	28.2	27.1	25	22.5	20
NSLA300-30/4	110		34.5	34	33.5	32.4	31.6	30	27.5	25
NSLA300-35/4	132		38.6	38.1	37.8	36.9	36	35	32.6	29.6
NSLA300-44/4	160		49.5	49.2	48.8	47.6	46.3	44	40.5	37.5
NSLA300-55/4	200		58.2	57.9	57.6	56.7	56.1	55	52.5	49.2

Dimension and weight

PUPM Model	Size(mm)											Weight (kg)
	D	B1	B2	B3	B4	B5	H1	H2	H3	L1	L2	
NSLA300-15/4	550	490	365	345	250	440	290	649	1720	1200	600	907
NSLA300-20/4	550	550	400	345	250	440	290	649	1770	1200	600	1075
NSLA300-25/4	550	550	400	380	280	480	290	659	1850	1200	600	1230
NSLA300-30/4	660	625	550	380	280	480	290	699	2000	1200	600	1570
NSLA300-35/4	660	625	550	380	280	480	290	699	2150	1200	600	1650
NSLA300-44/4	660	625	550	380	295	480	290	702	2150	1200	600	1790
NSLA300-55/4	660	625	550	380	295	480	290	702	2150	1200	600	1905

Explosion-proof motor's dimension have changed, check with Nuosai for detail.