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TB Pipeline Pump

50HZ



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TB Type Detachable Pipeline Pump



► Structural Features ◀



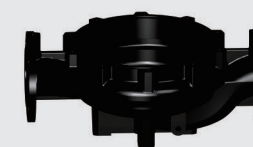
Motor

- High efficiency, energy saving
- Angular contact bearing at drive end
- Standard B5 motor
- Safer operation and lower noise



Pump cover

- Professional style design
- Heightened design with protective cover
- Surface electrophoresis
- Good ventilation



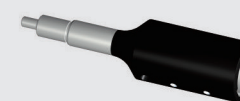
Pump body

- Fluid-plastic appearance design
- Sunken passageway design
- Manufactured by machining center
- Good discharge capacity
- Surface electrophoresis
- Reliable hydraulic self-balancing



Base

- Detachable design
- Beautiful appearance and light weight
- Made of high-strength steel sheet



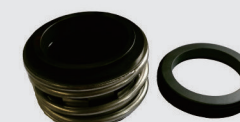
Pump shaft

- Sleeve coupling type
- Through 100,000 reliability tests
- Made of stainless steel



Impeller

- German casting technology
- High-efficiency hydraulic design
- Surface electrophoresis



Shaft seal

- Universal mechanical seal
- More reliable sealing
- Wear-resistant and heat-resistant material



Nut

- Self-locking anti-loose function
- Made of stainless steel

Adopt internationally popular modular design to reduce parts, ensure the versatility of parts, and facilitate procurement, manufacturing and maintenance

► Product Description ◀

TB type detachable pipeline pump (hereinafter referred to as pipeline pump) comes standard with high-efficiency standard motor, and through hydraulic and structural optimization, combined with industrial design and reliability design test, it is featured by high efficiency, energy saving, stable performance, low noise, no overload, large flow, wide high efficiency field, and beautiful appearance and can completely replace the same type of foreign products.

► Working Conditions ◀

The use of TB pumps is subject to the following conditions:

1. Caliber range: DN40 ~ DN300;
2. Flow range: 12.5m³/h~900m³/h;
3. Lift range: 9 m~81 m;
4. Power range: 1.1kW~200kW;
5. Power requirements: 3~380V, 50Hz
6. Speed: 1500、3000r/min ;
7. System pressure: 100mm diameter and below, the maximum pressure is 1.6MPa, 125mm diameter and above, the maximum pressure is 1.2MPa;
8. Medium: Temperature 0~120 ° C, PH value 5~9;
9. Ambient temperature: ≤40 °C.

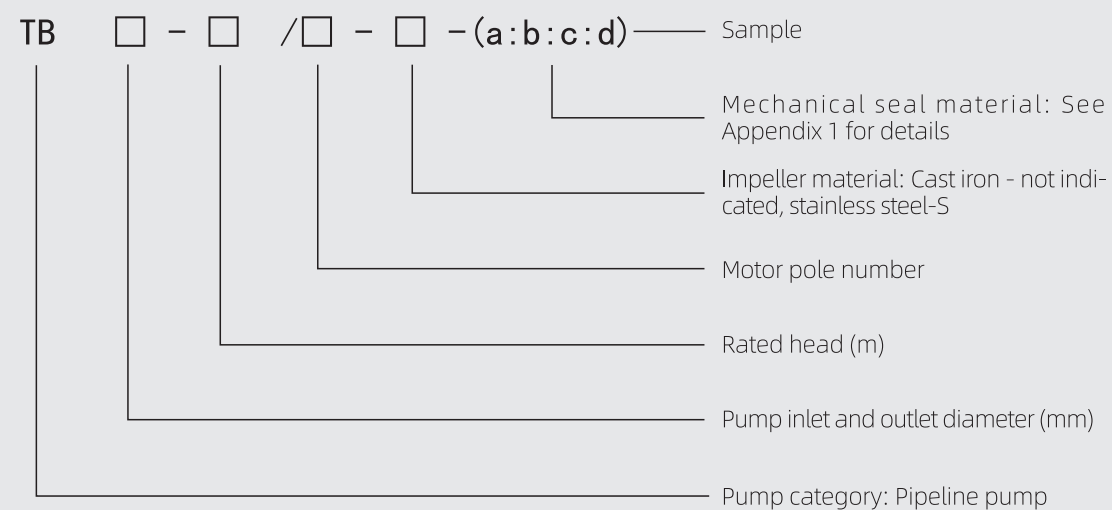


► Application Fields ◀

TB pumps are suitable for clean, non-corrosive, and non-flammable & explosive media that do not contain any solid particles and fibers that can cause physical or chemical damage to the pump. TB pumps are mainly used as liquid delivery, pressurization and circulation equipment, such as:

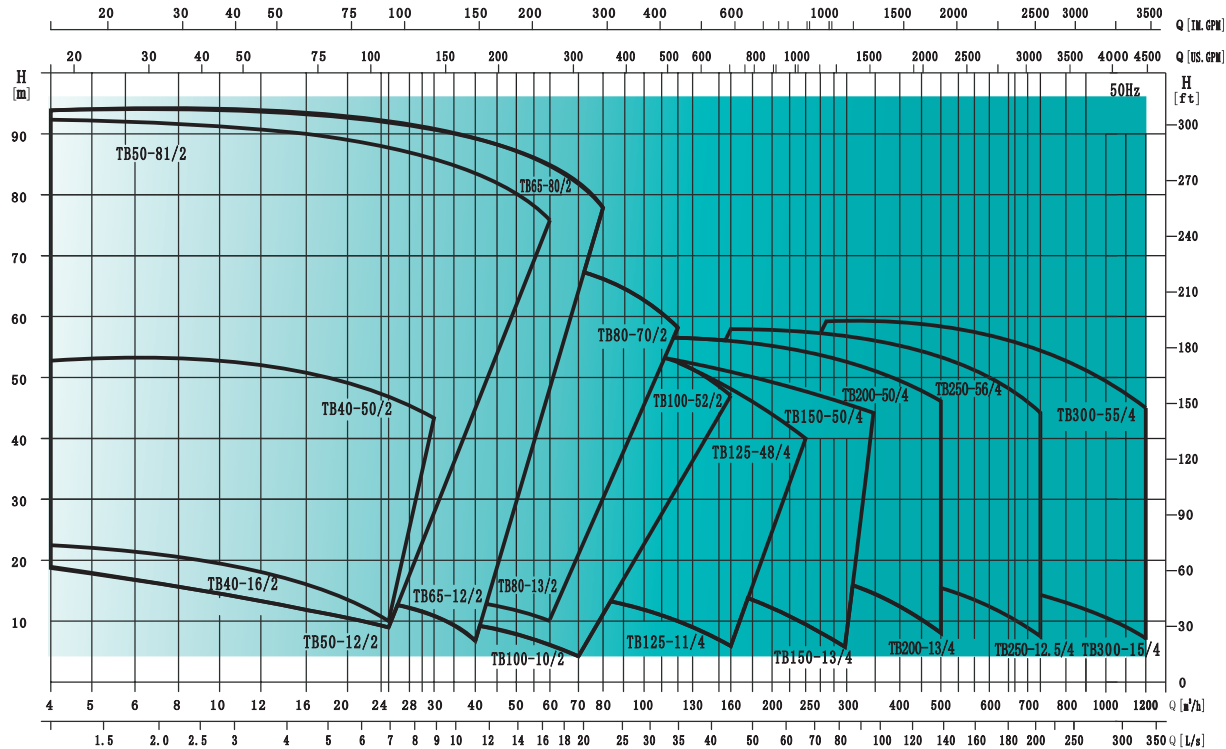
- Heating system
- Regional water supply system
- Secondary pressurization of high-rise building pipe network
- Circulation and cooling system of air conditioning
- Cleaning and circulation system of general industrial equipment
- Boiler water supply
- General domestic water supply

► Model Description ◀



For example: TB50-35/2-SKFC indicates a pipeline pump with the pump inlet and outlet diameter of 50mm, the rated lift of 35m, cast iron impeller, 2-pole motor, and SKFC mechanical seal.

► Performance Curve ◀



Performance Data

No.	Model	Flow (m³/h)	Head (m)	Speed (r/Min)	Motor Power (kW)	Necessary NPSH (m)
1	TB40-16/2	12.5	16	3000	1.1	2.0
2	TB40-21/2	12.5	21		1.5	2.0
3	TB40-20/2	20	20		2.2	2.0
4	TB40-26/2	20	26		3	2.0
5	TB40-30/2	25	30		4	2.0
6	TB40-36/2	25	36		5.5	2.0
7	TB40-50/2	25	50		7.5	2.0
8	TB50-12/2	16	12		1.1	2.0
9	TB50-15/2	20	15		1.5	2.0
10	TB50-18/2	25	18		2.2	2.0
11	TB50-24/2	25	24		3	2.0
12	TB50-28/2	30	28		4	2.0
13	TB50-36/2	30	36		5.5	2.0
14	TB50-40/2	35	40		7.5	2.0
15	TB50-50/2	40	50		11	2.0
16	TB50-60/2	50	60		15	2.0

Continued Table:

No.	Model	Flow (m³/h)	Head (m)	Speed (r/Min)	Motor Power (kW)	Necessary NPSH (m)
17	TB50-71/2	50	71	3000	18.5	2.5
18	TB50-81/2	50	81		22	2.5
19	TB65-12/2	25	12		1.5	2.5
20	TB65-15/2	30	15		2.2	2.5
21	TB65-20/2	30	20		3	2.5
22	TB65-22/2	40	22		4	2.5
23	TB65-30/2	40	30		5.5	2.5
24	TB65-34/2	50	34		7.5	2.5
25	TB65-42/2	50	42		11	2.5
26	TB65-52/2	50	52		15	2.5
27	TB65-60/2	60	60		18.5	3.0
28	TB65-70/2	70	70		22	3.0
29	TB65-80/2	70	80		30	3.0
30	TB80-13/2	50	13		3	3.0
31	TB80-19/2	50	19		4	3.0
32	TB80-23/2	50	23		5.5	3.0
33	TB80-29/2	50	29		7.5	3.0
34	TB80-30/2	80	30		11	3.5
35	TB80-38/2	80	38		15	3.5
36	TB80-47/2	80	47		18.5	3.5
37	TB80-60/2	80	60		22	3.5
38	TB80-70/2	80	70		30	3.5
39	TB100-10/2	60	10		3	3.5
40	TB100-15/2	60	15		4	3.5
41	TB100-17/2	80	17		5.5	4.5
42	TB100-22/2	80	22		7.5	4.5
43	TB100-27/2	100	27		11	4.5
44	TB100-34/2	100	34		15	4.5
45	TB100-40/2	110	40		18.5	4.0
46	TB100-48/2	120	48		22	4.0
47	TB100-52/2	130	52		30	4.0
48	TB125-11/4	120	11	1500	5.5	2.5
49	TB125-15/4	120	15		7.5	2.5
50	TB125-18/4	160	18		11	2.5
51	TB125-22/4	160	22		15	2.5
52	TB125-28/4	160	28		18.5	2.5
53	TB125-33/4	160	33		22	2.5
54	TB125-40/4	160	40		30	2.5

Continued Table:

No.	Model	Flow (m³/h)	Head (m)	Speed (r/Min)	Motor Power (kW)	Necessary NPSH (m)
55	TB125-48/4	160	48	1500	37	3.0
56	TB150-13/4	200	13		11	3.0
57	TB150-17/4	200	17		15	3.0
58	TB150-22/4	200	22		18.5	3.0
59	TB150-25/4	200	25		22	3.0
60	TB150-34/4	200	34		30	3.0
61	TB150-41/4	200	41		37	3.0
62	TB150-50/4	200	50		45	3.0
63	TB200-16/4	300	16		18.5	4.0
64	TB200-20/4Z	300	20		22	4.0
65	TB200-24/4	300	24		30	4.0
66	TB200-32/4Z	300	32		37	4.0
67	TB200-36/4	300	36		45	4.0
68	TB200-48/4	300	48		55	3.5
69	TB200-53/4	300	53		75	3.5
70	TB200-13/4	400	13		22	5.0
71	TB200-20/4	400	20		30	5.0
72	TB200-23/4	400	23		37	4.5
73	TB200-27/4	400	27		45	4.5
74	TB200-32/4	400	32		55	4.5
75	TB200-43/4	400	43		75	4.0
76	TB200-50/4	400	50		90	4.0
77	TB250-16/4	500	16		30	5.5
78	TB250-19/4	500	19		37	5.5
79	TB250-22/4	500	22		45	5.5
80	TB250-29/4	500	29		55	5.5
81	TB250-36/4	500	36		75	5.5
82	TB250-47/4	500	47		90	5.5
83	TB250-56/4	500	56		110	5.5
84	TB250-12.5/4	630	12.5		30	5.5
85	TB250-14/4	630	14		37	5.5
86	TB250-17/4	630	17		45	5.5
87	TB250-20/4	630	20		55	5.5
88	TB250-26/4	630	26		75	5.5
89	TB250-32/4	630	32		90	5.5
90	TB250-40/4	630	40		110	5.5
91	TB250-50/4	630	50		132	5.5
92	TB300-15/4	900	15		55	5.5
93	TB300-20/4	900	20		75	5.5
94	TB300-25/4	900	25		90	5.5
95	TB300-30/4	900	30		110	5.5
96	TB300-35/4	900	35		132	5.5
97	TB300-44/4	900	44		160	5.5
98	TB300-55/4	900	55		200	5.5

Motor

Structure: Full range of fully enclosed, air-cooled three-phase asynchronous standard motors; from 1.1kW to 2.2kW, single-phase motors are available.

Motor protection: Single-phase motors are equipped with built-in thermal protector; three-phase motors must be connected to motor starter according to local regulations.

Ambient temperature: ≤40° C; in the environment exceeding this temperature, or when the motor is installed at an altitude of 1000m or higher, due to the decrease of air density, the cooling effect of the motor decreases, the loss of the winding and iron core increases, and the operating efficiency decreases, resulting in that the output power (P2) of the motor decreases; in such case, a motor with a higher output power must be used, as shown in Figure 1.

Position of motor junction box: When the electric pump is delivered from the factory, the motor junction box is installed on the left side of the inlet flange of the pump as a standard; if the customer has special requirements, the junction box can be adjusted by an angle of 0°, 90°, 180°, and 270° in turn. As shown in Figure 2.

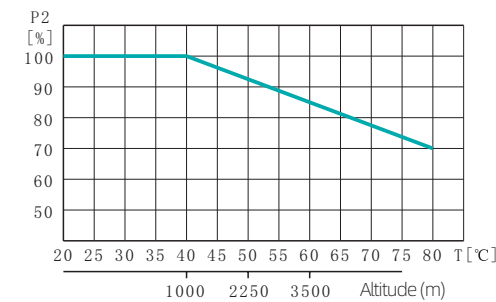


Figure 1: Relationship between motor output power (P2) and ambient temperature

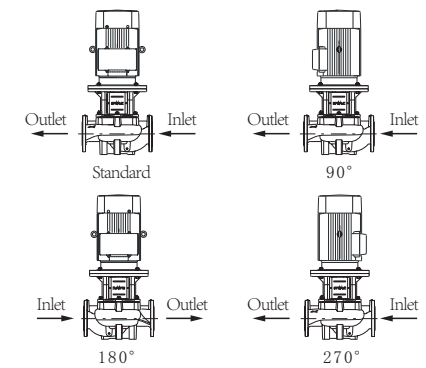


Figure 2: Position of junction box

Parameters of standard high efficiency (IE2) three-phase motor

Rated power kW	Rated current A		Rated speed r/min	Power factor COSφ	Efficiency %	Connection	Bearing
	380 V	415 V					
1.1	2.53	2.32	2860	0.83	79.6	Y	6204ZZ
1.5	3.34	3.06	2890	0.84	81.3	Y	Front 6305ZZ, rear 6205ZZ
2.2	4.73	4.33	2890	0.85	83.2	Y	Front 6305ZZ, rear 6205ZZ
3	6.19	5.67	2880	0.87	84.6	Y	Front 6306ZZ, rear 6206ZZ
4	8.05	7.37	2910	0.88	85.8	△	Front 6306ZZ, rear 6206ZZ
5.5	10.9	10.0	2905	0.88	87.0	△	6308ZZ
7.5	14.5	13.3	2915	0.89	88.1	△	6308ZZ
11	21.0	19.2	2935	0.89	89.4	△	Front 7309B, rear 6309ZZ
15	28.4	26.0	2935	0.89	90.3	△	Front 7309B, rear 6309ZZ
18.5	34.7	31.8	2935	0.89	90.9	△	Front 7319B, rear 6309ZZ
22	41.1	37.7	2950	0.89	91.3	△	Front 7311B, rear 6311ZZ
30	55.7	51.0	2960	0.89	92.0	△	Front 7312, rear 6312ZZ
5.5	11.6	10.6	1455	0.82	87.7	△	6308ZZ
7.5	15.5	14.2	1455	0.83	88.7	△	6308ZZ
11	22.4	20.5	1465	0.83	89.8	△	Front 7309B, rear 6309ZZ
15	29.9	27.4	1465	0.84	90.6	△	Front 7309B, rear 6309ZZ
18.5	36.3	33.2	1470	0.85	91.2	△	Front 7311B, rear 6311ZZ
22	42.9	39.3	1470	0.85	91.6	△	Front 7311B, rear 6311ZZ

Parameters of standard high efficiency (IE2) three-phase motor (Continued)

Rated power kW	Rated current A		Rated speed r/min	Power factor COSφ	Efficiency %	Connection	Bearing
	380V	415V					
30	58.1	53.2	1475	0.85	92.3	△	Front 7312B, rear 6312ZZ
37	70.5	64.6	1480	0.86	92.7	△	Front 7313B, rear 6313ZZ
45	85.4	78.2	1480	0.86	93.1	△	Front 7313B, rear 6313ZZ
55	104	95	1480	0.86	93.5	△	Front 7314B, rear 6314ZZ
75	139	128	1485	0.87	94.0	△	Front 7317B, rear 6317ZZ
90	165	151	1485	0.88	94.2	△	Front 7317B, rear 6317ZZ
110	199	182	1485	0.89	94.5	△	Front 7319B, rear 6319ZZ
132	238	218	1485	0.89	94.7	△	Front 7319B, rear 6319ZZ
160	288	264	1485	0.89	94.9	△	Front 7319B, rear 6319ZZ
200	359	329	1485	0.89	95.1	△	Front 7319B, rear 6319ZZ

Parameters of ultrahigh efficiency (IE3) three-phase motor

Rated power kW	Rated current A		Rated speed r/min	Power factor COSφ	Efficiency %	Connection	Bearing
	380V	415V					
1.1	2.4	2.2	2880	0.83	82.7	Y	6204ZZ
1.5	3.2	3.0	2895	0.84	84.2	Y	Front 6305ZZ, rear 6205ZZ
2.2	4.6	4.2	2895	0.85	85.9	Y	Front 6305ZZ, rear 6205ZZ
3	6.0	5.5	2895	0.87	87.1	Y	Front 6306ZZ, rear 6206ZZ
4	7.8	7.2	2905	0.88	88.1	△	Front 6306ZZ, rear 6206ZZ
5.5	10.6	9.8	2930	0.88	89.2	△	6308ZZ
7.5	14.4	13.2	2930	0.88	90.1	△	6308ZZ
11	20.6	18.9	2945	0.89	91.2	△	Front 7309B, rear 6309ZZ
15	27.9	25.5	2945	0.89	91.9	△	Front 7309B, rear 6309ZZ
18.5	34.2	31.3	2940	0.89	92.4	△	Front 7319B, rear 6309ZZ
22	40.5	37.1	2955	0.89	92.7	△	Front 7311B, rear 6311ZZ
30	54.9	50.3	2960	0.89	93.3	△	Front 7312B, rear 6312ZZ
5.5	11.2	10.3	1440	0.83	89.6	△	6308ZZ
7.5	15.0	13.7	1460	0.84	90.4	△	6308ZZ
11	21.5	19.7	1465	0.85	91.4	△	Front 7309B, rear 6309ZZ
15	28.8	26.4	1465	0.86	92.1	△	Front 7309B, rear 6309ZZ
18.5	35.3	32.3	1470	0.86	92.6	△	Front 7311B, rear 6311ZZ
22	41.8	38.3	1470	0.86	93.0	△	Front 7311B, rear 6311ZZ
30	56.6	51.9	1475	0.86	93.6	△	Front 7312B, rear 6312ZZ
37	69.6	63.7	1485	0.86	93.9	△	Front 7313B, rear 6313ZZ
45	84.4	77.3	1485	0.86	94.2	△	Front 7313B, rear 6313ZZ
55	102.7	94.1	1485	0.86	94.6	△	Front 7314B, rear 6314ZZ
75	136.3	124.8	1486	0.88	95.0	△	Front 7317B, rear 6317ZZ
90	163.2	149.5	1486	0.88	95.2	△	Front 7317B, rear 6317ZZ
110	196.8	180.2	1488	0.89	95.4	△	Front 7319B, rear 6319ZZ
132	235.7	215.8	1488	0.89	95.6	△	Front 7319B, rear 6319ZZ
160	285	261	1488	0.89	95.8	△	Front 7319B, rear 6319ZZ
200	352	322	1490	0.90	96.0	△	Front 7319B, rear 6319ZZ

Product Structure

The product is mainly composed of five core components: pump body, impeller, pump cover, pump shaft and motor; the motor can be separated from the pump, the pump part is designed as top pull-out structure, and all models are equipped with standard motor and mechanical seal.

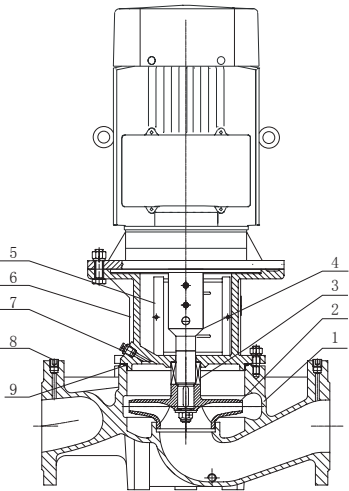
The pump body part is equivalent to a section of pipeline. The pump body can be sealed with blank flange when the pump is maintained, so as not to affect the normal operation of the system.

The impeller is of a closed structure designed with twisted blade for a better guarantee of efficient hydraulic efficiency.

The pump cover plays the dual role of supporting the motor and sealing the pump body, and the seal between the pump cover and the pump body adopts the static seal "O-ring".

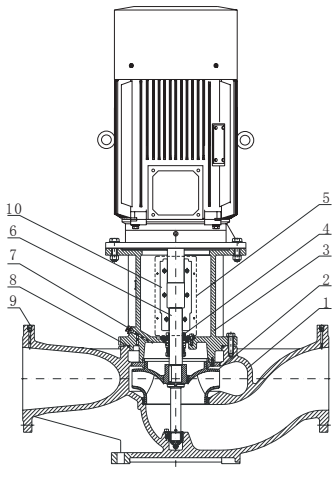
The inlet and outlet flanges of the pump are in accordance with the standards of GBT17241.6, ISO7005-2 and DIN2501.

Sectional View of Product



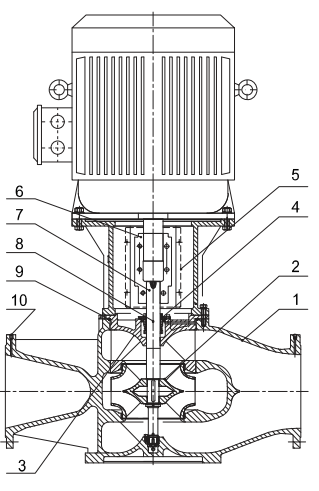
TB40-TB150 MEASUREMENTS

No.	Name	Material
1	Pump body	Cast iron HT200
2	Impeller	Cast iron HT200/stainless steel
3	Mechanical seal	See Appendix 1
4	Pump shaft	Stainless steel 304
5	Protection plate	Stainless steel 304
6	Pump cover	Cast iron HT200
7	Release valve	Brass
8	Pressure measuring plug	Stainless steel 304
9	O-ring	Fluororubber



TB200-TB250 MEASUREMENTS

No.	Name	Material
1	Pump body	Cast iron HT200
2	Impeller	Cast iron HT200/stainless steel
3	Pump cover	Cast iron HT200
4	Mechanical seal	See Appendix 1
5	Protection plate	Stainless steel 304
6	Pump shaft	Stainless steel 304
7	Release valve	Brass
8	O-ring	Nitrile rubber
9	Pressure measuring plug	Stainless steel 304
10	Coupling	Cast steel

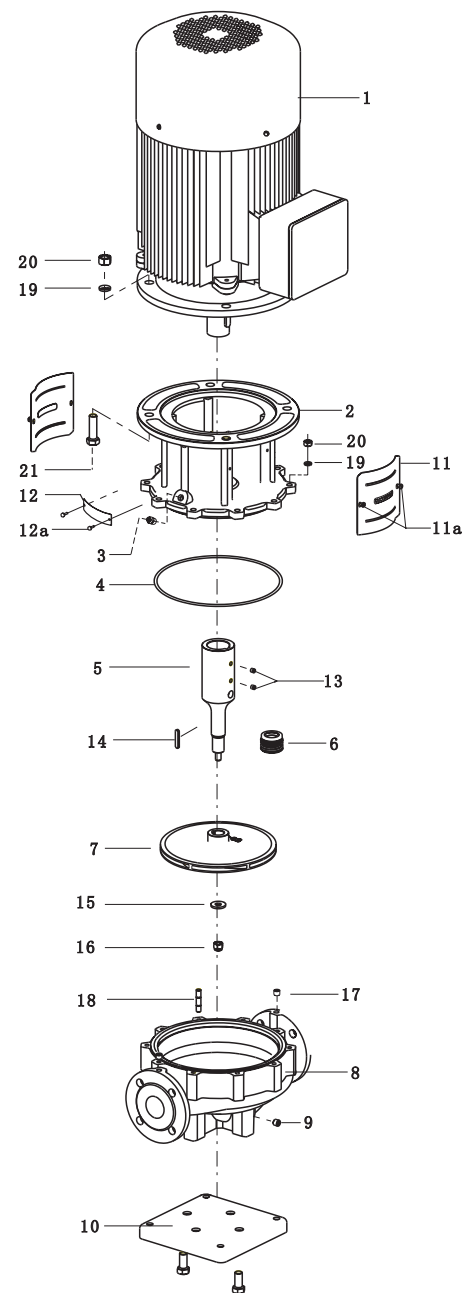


TB300 MEASUREMENTS

No.	Name	Material
1	Pump body	Ductile iron QT500-7
2	Impeller	Cast iron HT200/stainless steel
3	Pump cover	Ductile iron QT500-7
4	Mechanical seal	Graphite/Sic
5	Protection plate	06Cr19Ni10
6	Coupling	ZG270-500
7	Pump shaft	20Cr13
8	Vent valve	06Cr19Ni10
9	O-ring	NBR
10	Pressure measuring plug	06Cr19Ni10

► Exploded View ◀

Exploded view of pump TB40-TB150

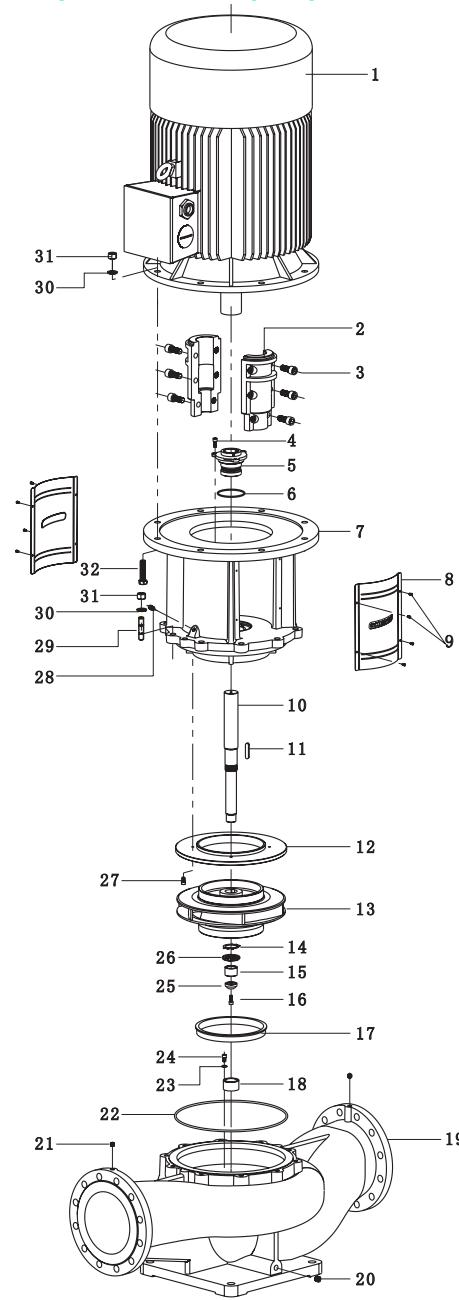


The physical appearance may vary from the above.

No.	Part name	Material
1	Motor	/
2	Pump cover	HT 200
3	Release valve	Brass
4	O-ring	Fluororubber
5	Pump shaft	304
6	Mechanical seal	See Appendix 1
7	Impeller	See technical data
8	Pump body	HT 200
9	Drain valve	304
10	Base	A3, see the base dimensions for details
11	Protection plate	304
11a	Cross recessed pan head screws	Q235A
12	Pump nameplate	Aluminum plate
12a	Rivet for nameplate	T3
13	Set screw	Q235A
14	Flat key	304
15	Impeller washer	304
16	Locknut	304
17	Pressure measuring plug	304
18	Stud	Q235A
19	Spring washer	65Mn
20	Hexagon nut - Style 1	Q235A
21	Hexagon bolt	Q235A

► Exploded View ◀

Exploded view of pump TB200-TB250



The physical appearance may vary from the above.

No.	Part name	Material
1	Motor	/
2	Coupling	Cast steel ZG270-500
3	Socket head cap screw	304
4	Socket head cap screw	Q235A
5	Mechanical seal	See Appendix 1
6	O-ring	Fluororubber
7	Pump cover	HT200
8	Protection plate	304
9	Cross recessed pan head screws	Q235A
10	Pump shaft	304
11	Flat key	304
12	Seal ring	HT200
13	Impeller	See technical data
14	Stop washer	Q235A
15	Lower bushing	Q235A
16	Socket head cap screw	Q235A
17	Mouth ring	304
18	Lower bearing	YG6
19	Pump body	HT200
20	Drain valve	304
21	Pressure measuring plug	304
22	O-ring	Nitrile rubber
23	Washer	304
24	Socket head cap screw	304
25	Gland	Q235A
26	Round nut	45
27	Socket head cap screw	Q235A
28	Release valve	Brass
29	Stud	65Mn
30	Spring washer	Q235A
31	Hexagon nut	Q235A
32	Hexagon bolt	Q235A

► Installation Conditions ◀

According to the size and specifications of the product, there are different installation requirements, and the specific installation requirements are as follows:

1. If the system pipeline has the ability to support the pump, pumps equipped with motor of 2.2kW and below can be directly suspended in the pipeline; where the system pipeline does not have the ability to support the pump or the motor power is greater than 2.2kW, pumps must be installed on the support or the base plate, as shown in Figure A.
2. Pumps equipped with motor of 2.2kW and below can be installed horizontally or perpendicular to the pipeline; pumps equipped with motor of greater than 2.2kw can only be installed perpendicular to the pipeline. As shown in Figure B.
3. The pump should be so installed that the tension of the system piping is not transmitted to the pump when the pump is in use.
4. In order to ensure the normal operation of motor, the pump should be installed in a well-ventilated and dry environment, and the ambient temperature should not exceed 40 °C.
5. If the pump is installed outdoors, appropriate protective devices must be installed to ensure that no foreign matter or water enters the motor.
6. In order to facilitate the later maintenance of the pump, there must be enough space around the pump. As shown in Figure C.
7. In order to minimize the vibration and noise of the pump and ensure the best operation effect, it should be considered to take necessary measures at the installation of pump, e.g.: installing a vibration absorbing base, and it is recommended to adopt a cement base provided with vibration isolator, as shown in Figure D.

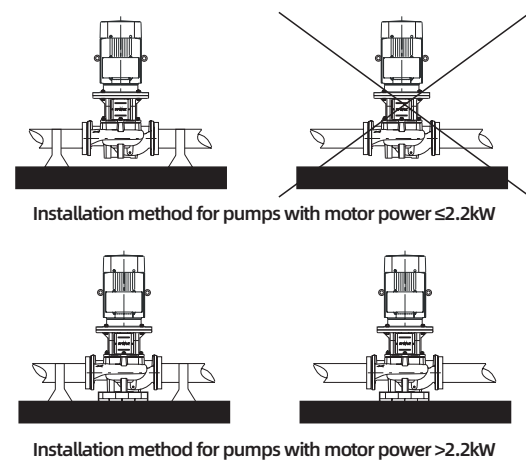


Figure A

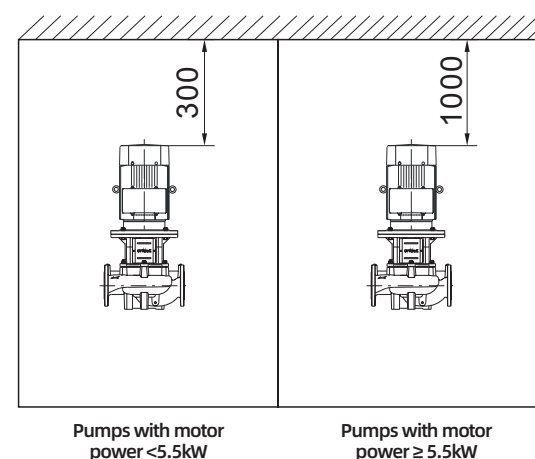


Figure C

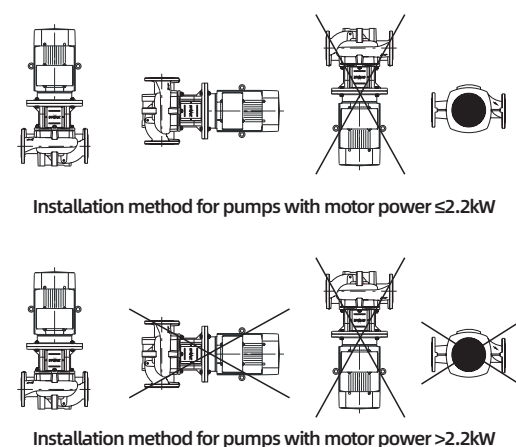


Figure B

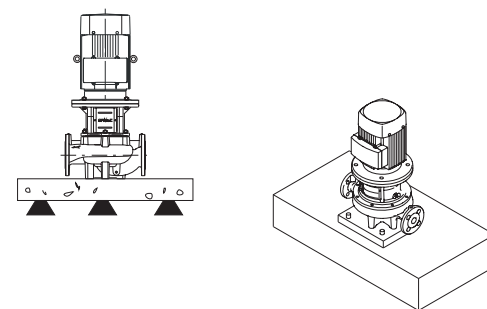
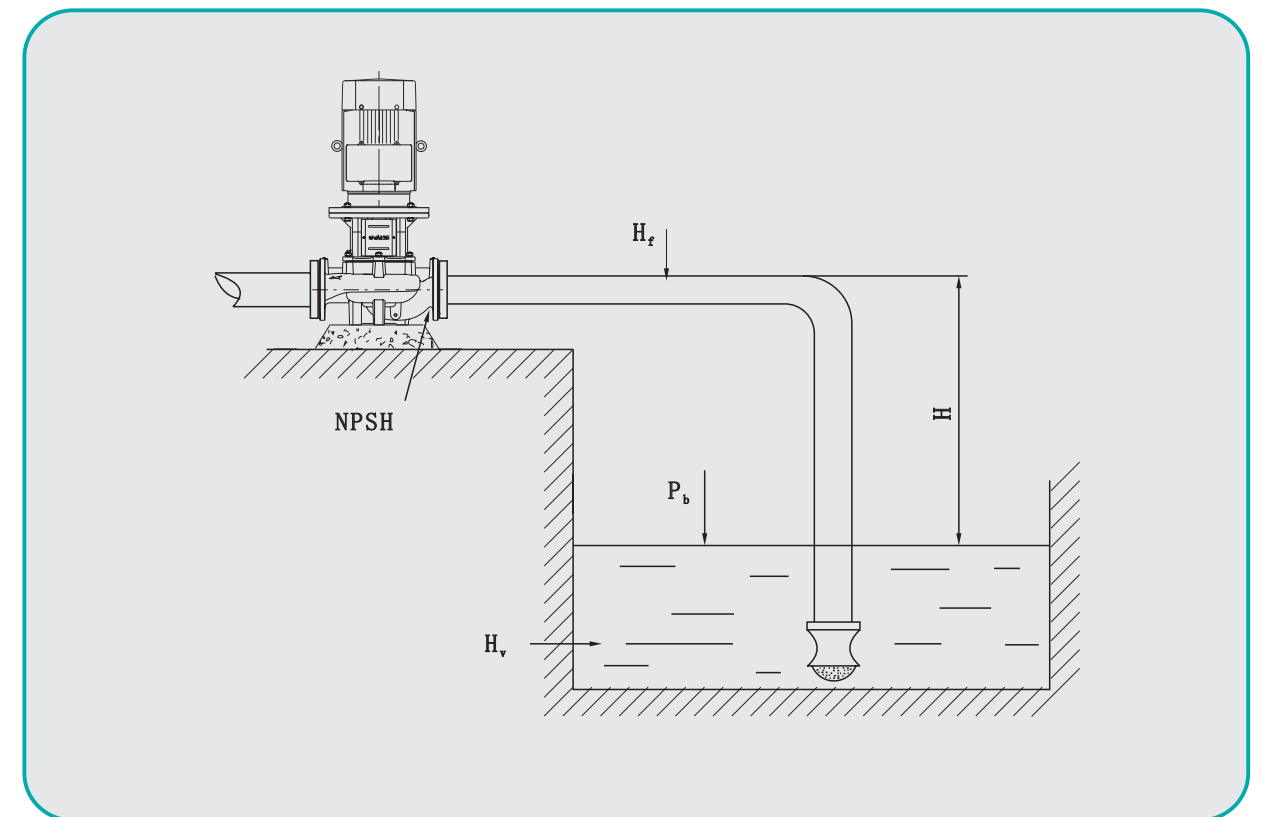


Figure D

► Calculation of Minimum Inlet Pressure ◀



Inlet pressure: In order to ensure that the pump is in optimal operation while ensuring that the noise value is kept to a minimum, the inlet pressure must be correctly calculated and set. If the pressure inside the pump is lower than the vaporization pressure of the conveying medium, cavitation will occur to the pump; in order to ensure a minimum pressure at the pump inlet, the maximum suction head $H(m)$ can be calculated according to the following formula:

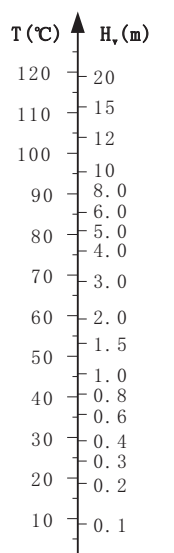
$$H = P_b \times 10.2 - NPSH - H_f - H_v - H_s$$

- P_b : Atmospheric pressure value, unit: bar;
 $NPSH$: Net positive suction height, unit: m (the specific value can be read from the value corresponding to the maximum flow point of the pump in operation on the NPSH curve in the performance curves of the corresponding model);
 H_f : Inlet pipe loss at maximum flow rate of pump in operation, unit: m;
 H_v : Vaporization pressure of liquid, unit: m (see the figure on the right);
 H_s : Safety margin, unit: m, which generally takes 0.5m.

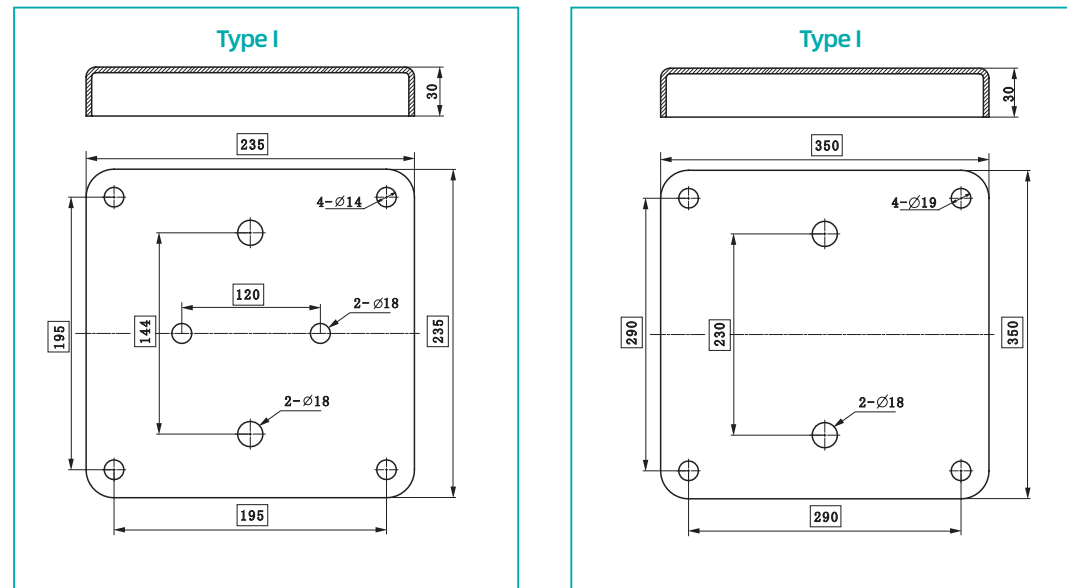
**Calculated by the above formula, if the "H" value is positive, the pump can run under the suction head.
 If the "H" value is negative, it is required to ensure that the inlet pressure is under the head of at least "H" meters for normal operation.**

Note: In general, the above calculations are not required, and calculations should be carried out in the following circumstances:

1. The liquid temperature is high;
2. The water intake conditions are poor;
3. The inlet pipe is long or the pump needs to be installed for suction;
4. The system pressure is too small;
5. The flow velocity of liquid is too large, resulting in high pipe loss.

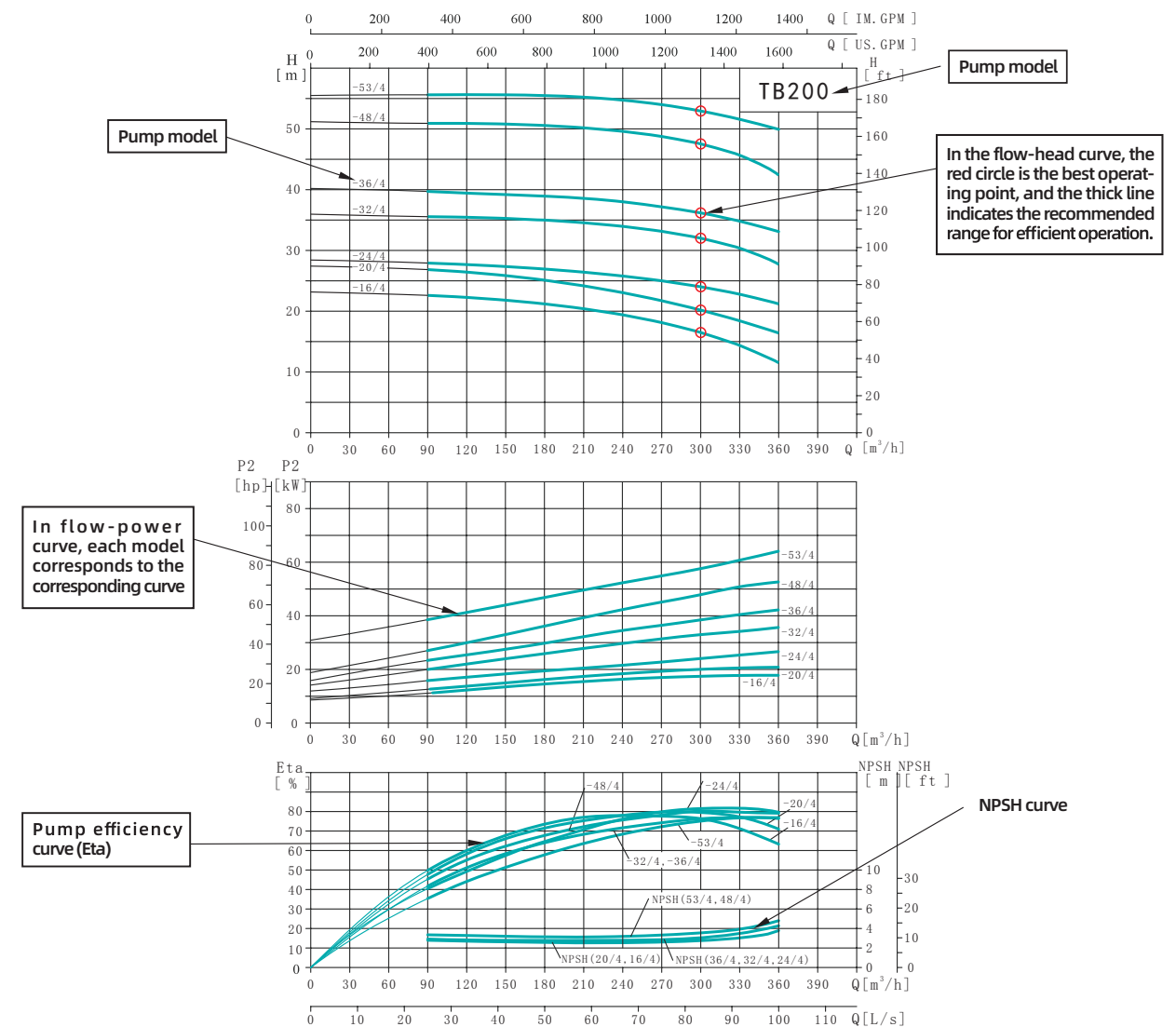


► Base dimensions ◀



No.	Pump model	Base type	No.	Pump model	Base type	No.	Pump model	Base type
1	TB40-16/2	Type I	22	TB65-22/2	Type I	43	TB100-27/2	Type I
2	TB40-21/2	Type I	23	TB65-30/2	Type I	44	TB100-34/2	Type I
3	TB40-20/2	Type I	24	TB65-34/2	Type I	45	TB100-40/2	Type II
4	TB40-26/2	Type I	25	TB65-42/2	Type I	46	TB100-48/2	Type II
5	TB40-30/2	Type I	26	TB65-52/2	Type I	47	TB100-52/2	Type II
6	TB40-36/2	Type I	27	TB65-60/2	Type I	48	TB125-11/4	Type II
7	TB40-50/2	Type I	28	TB65-70/2	Type I	49	TB125-15/4	Type II
8	TB50-12/2	Type I	29	TB65-80/2	Type I	50	TB125-18/4	Type II
9	TB50-15/2	Type I	30	TB80-13/2	Type I	51	TB125-22/4	Type II
10	TB50-18/2	Type I	31	TB80-19/2	Type I	52	TB125-28/4	Type II
11	TB50-24/2	Type I	32	TB80-23/2	Type I	53	TB125-33/4	Type II
12	TB50-28/2	Type I	33	TB80-29/2	Type I	54	TB125-40/4	Type II
13	TB50-36/2	Type I	34	TB80-30/2	Type I	55	TB125-48/4	Type II
14	TB50-40/2	Type I	35	TB80-38/2	Type I	56	TB150-13/4	Type II
15	TB50-50/2	Type I	36	TB80-47/2	Type I	57	TB150-17/4	Type II
16	TB50-60/2	Type I	37	TB80-60/2	Type I	58	TB150-22/4	Type II
17	TB50-71/2	Type I	38	TB80-70/2	Type I	59	TB150-25/4	Type II
18	TB50-81/2	Type I	39	TB100-10/2	Type I	60	TB150-34/4	Type II
19	TB65-12/2	Type I	40	TB100-15/2	Type I	61	TB150-41/4	Type II
20	TB65-15/2	Type I	41	TB100-17/2	Type I	62	TB150-50/4	Type II
21	TB65-20/2	Type I	42	TB100-22/2	Type I			Type II

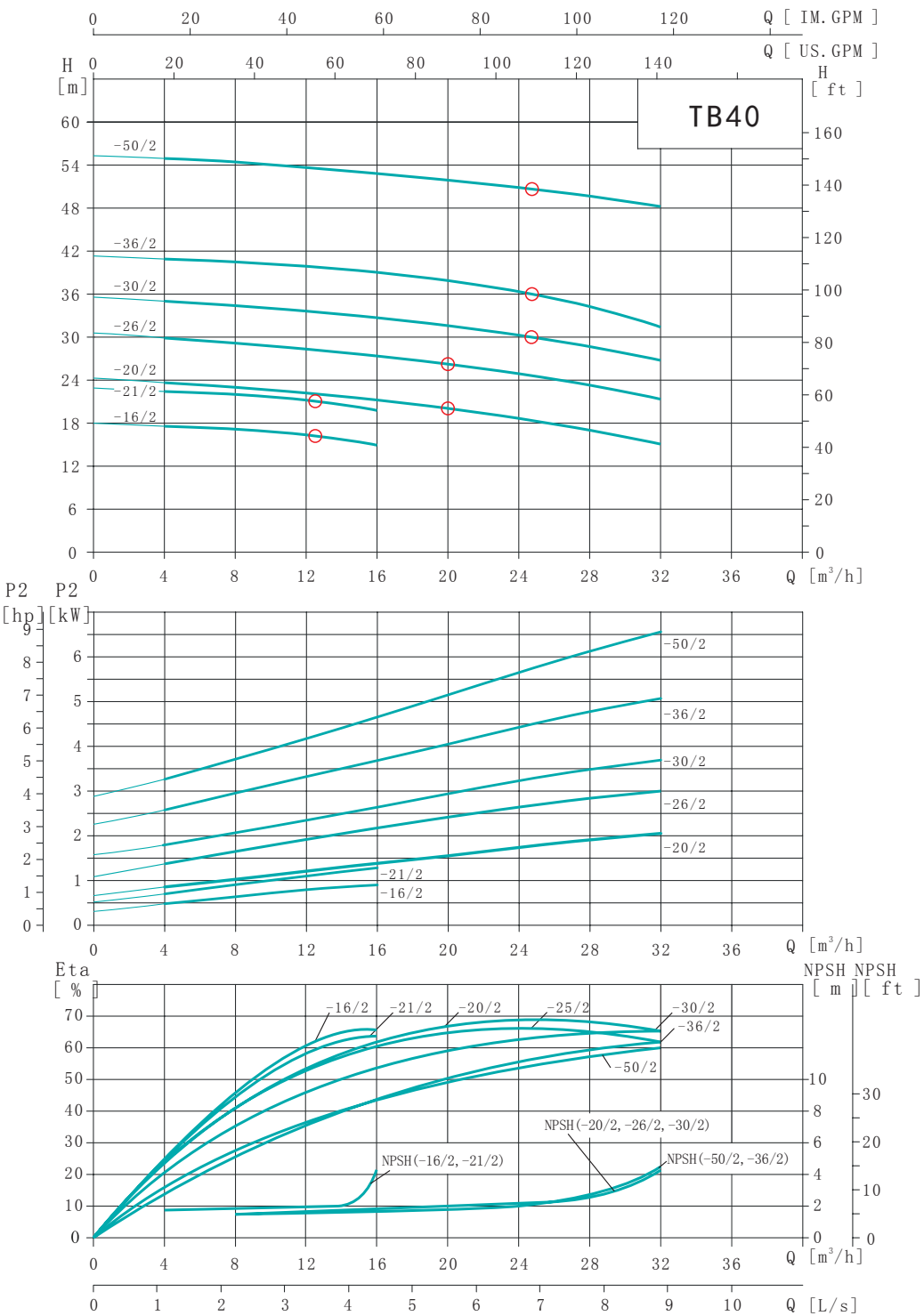
► Examples of performance curve ◀



Principles for Application of Performance Curves

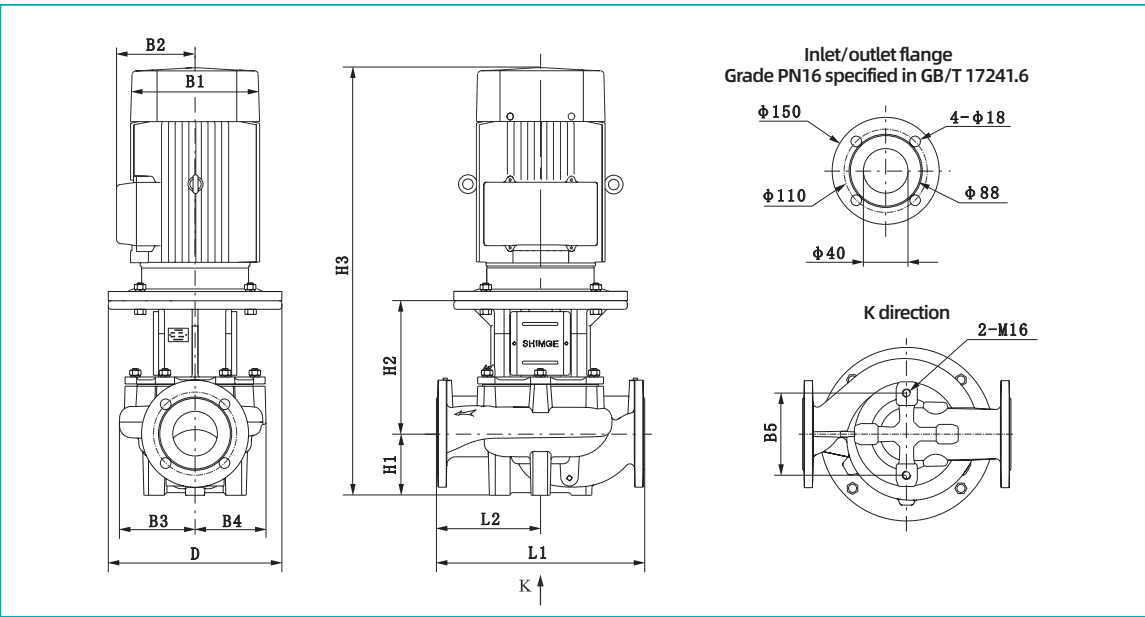
1. The curve tolerance is in accordance with Annex A of ISO9906;
2. The test medium is clean water with the temperature of 20 °C that contain no solid impurity and air;
3. All curves are based on the 3X380V motor with the rated speed of 2900rpm/1450rpm;
4. The curve is suitable for liquids with kinematic viscosity $\gamma=1 \text{ mm}^2/\text{s}$ (1 cst);
5. To prevent the risk of overheating, the pump should be operated within the range of the thick curve to avoid overloading the motor.

TB40-**-2



Performance Table

Pump model	Motor power (kW)	Q (m³/h)	4	8	12.5	16	20	25	28	32
TB40-16/2	1.1	H(m)	17.8	16.9	16	14.5				
TB40-21/2	1.5		22.8	21.7	21	19.7				
TB40-20/2	2.2		23.6	23.4	22.1	21.4	20	18.1	16.7	14.6
TB40-26/2	3		29.8	29.2	28.1	27.4	26	24	22.7	20.8
TB40-30/2	4		35.2	34.8	33.5	32.6	31.9	30	27.4	26.1
TB40-36/2	5.5		40.2	39.5	38.7	37.5	37.1	36	34.6	32.5
TB40-50/2	7.5		55.4	54.2	53.1	52.7	51.3	50	49.2	48.4

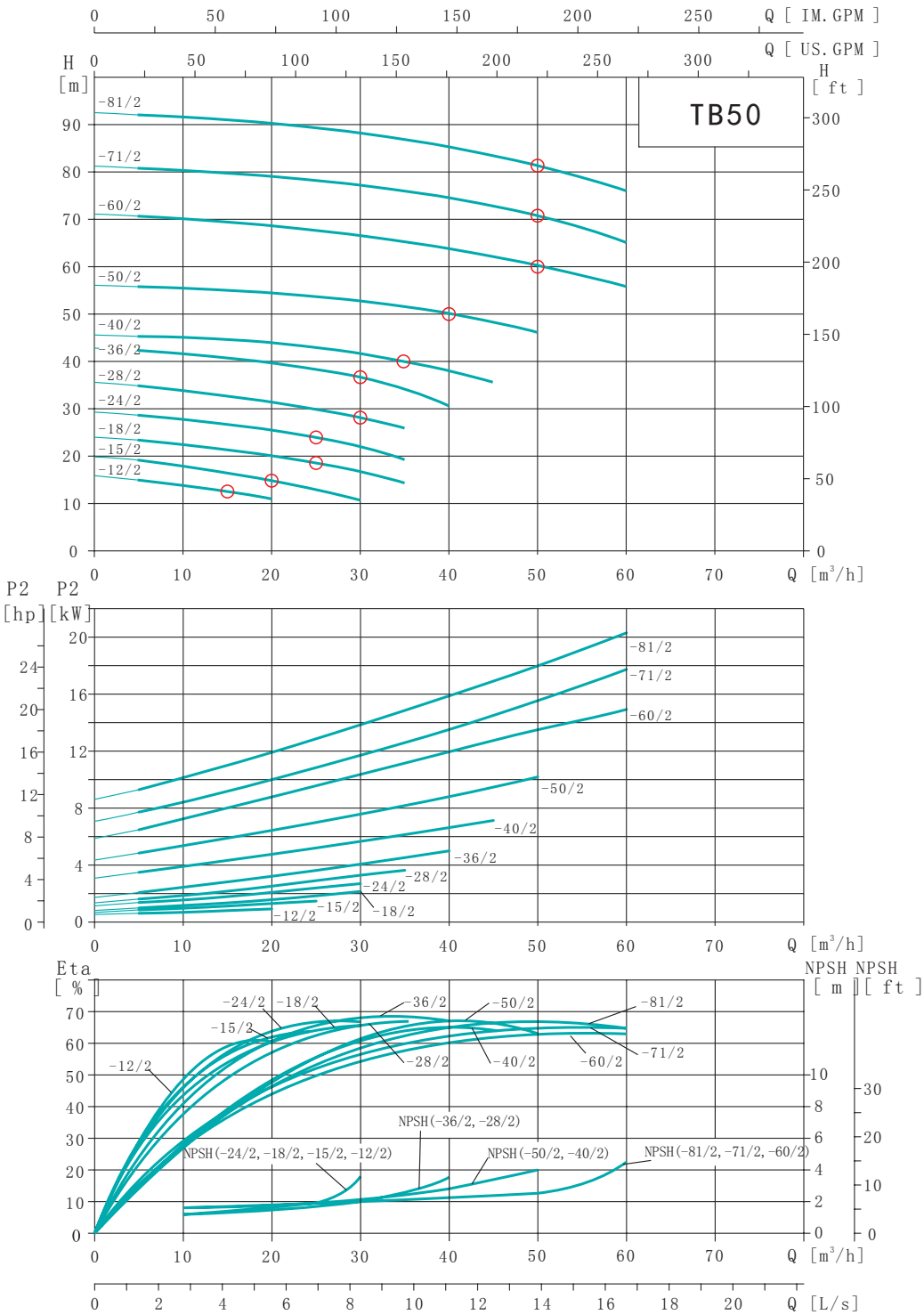


Size and weight

Pump model	Size [mm]											Weight [kg]
	D	B1	B2	B3	B4	B5	H1	H2	H3	L1	L2	
TB40-16/2	200	153	94	122	122	120	68	170	490	320	160	32
TB40-21/2	200	168	106	122	122	120	68	170	531	320	160	36
TB40-20/2	200	168	106	122	122	144	100	170	563	340	170	39
TB40-26/2	250	195	121	122	122	144	100	190	607	340	170	53
TB40-30/2	250	215	138	122	122	144	100	190	633	340	170	61
TB40-36/2	300	260	160	168	168	144	110	225	755	440	220	90
TB40-50/2	300	260	160	168	168	144	110	225	755	440	220	94

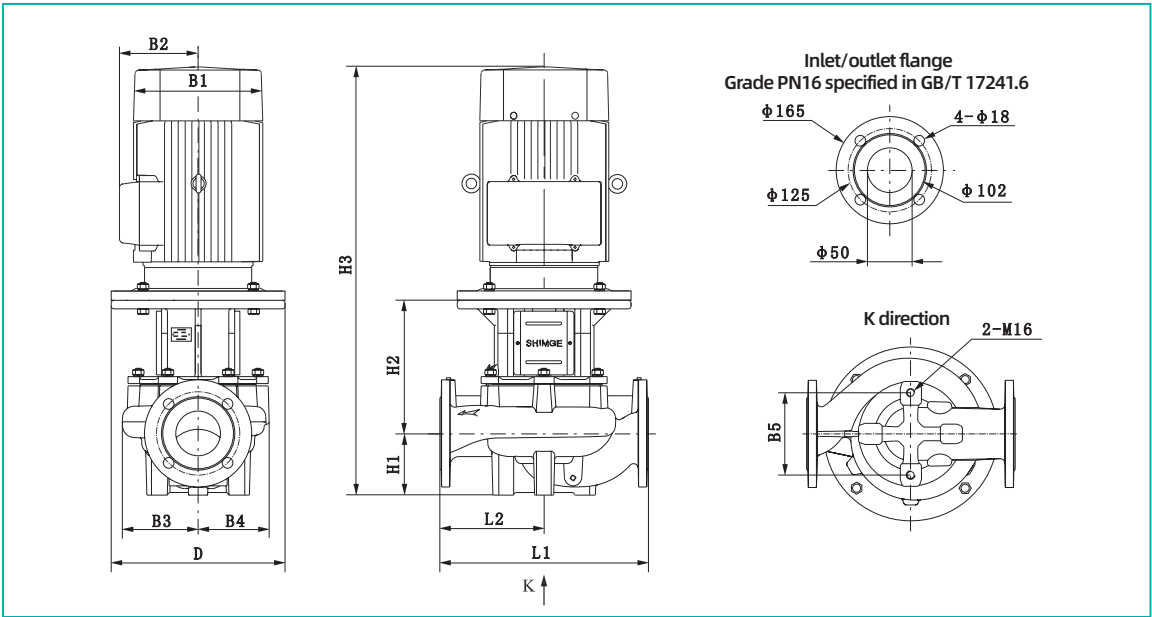
The size of explosion-proof motors has changed, and please contact us for details.

TB50-*/2



Performance Table

Pump model	Motor power (kW)	Q (m³/h)	5	10	16	20	25	30	35	40	45	50	60
TB50-12/2	1.1	H (m)	15.2	14.8	12	10.8							
TB50-15/2	1.5		18.2	17.5	16.1	15	13.2	10.5					
TB50-18/2	2.2		23.3	22.4	21.2	20.5	18	16	14				
TB50-24/2	3		28.4	27.3	26.2	25.5	24	21.6	19.2				
TB50-28/2	4		34.4	33.1	32.6	31.8	30.2	28	26.7				
TB50-36/2	5.5		42.2	41.5	40.2	39.6	38.1	36	33.5	30.5			
TB50-40/2	7.5		45.2	44.6	43.4	42.8	42.1	41.1	40	38.1	35.2		
TB50-50/2	11		56.1	55.4	55.2	54.8	54.3	53.5	52	50	47.2	46.1	
TB50-60/2	15		70.7	70.4	70.2	69.2	68.5	67.6	66.1	64.2	62.2	60	56.8
TB50-71/2	18.5		80.5	80.2	80	79.7	79.2	78.4	77.4	75.6	73.2	71	65.1
TB50-81/2	22		91.6	91.1	90.5	90.1	89.5	88.2	87.1	86	84	81	76

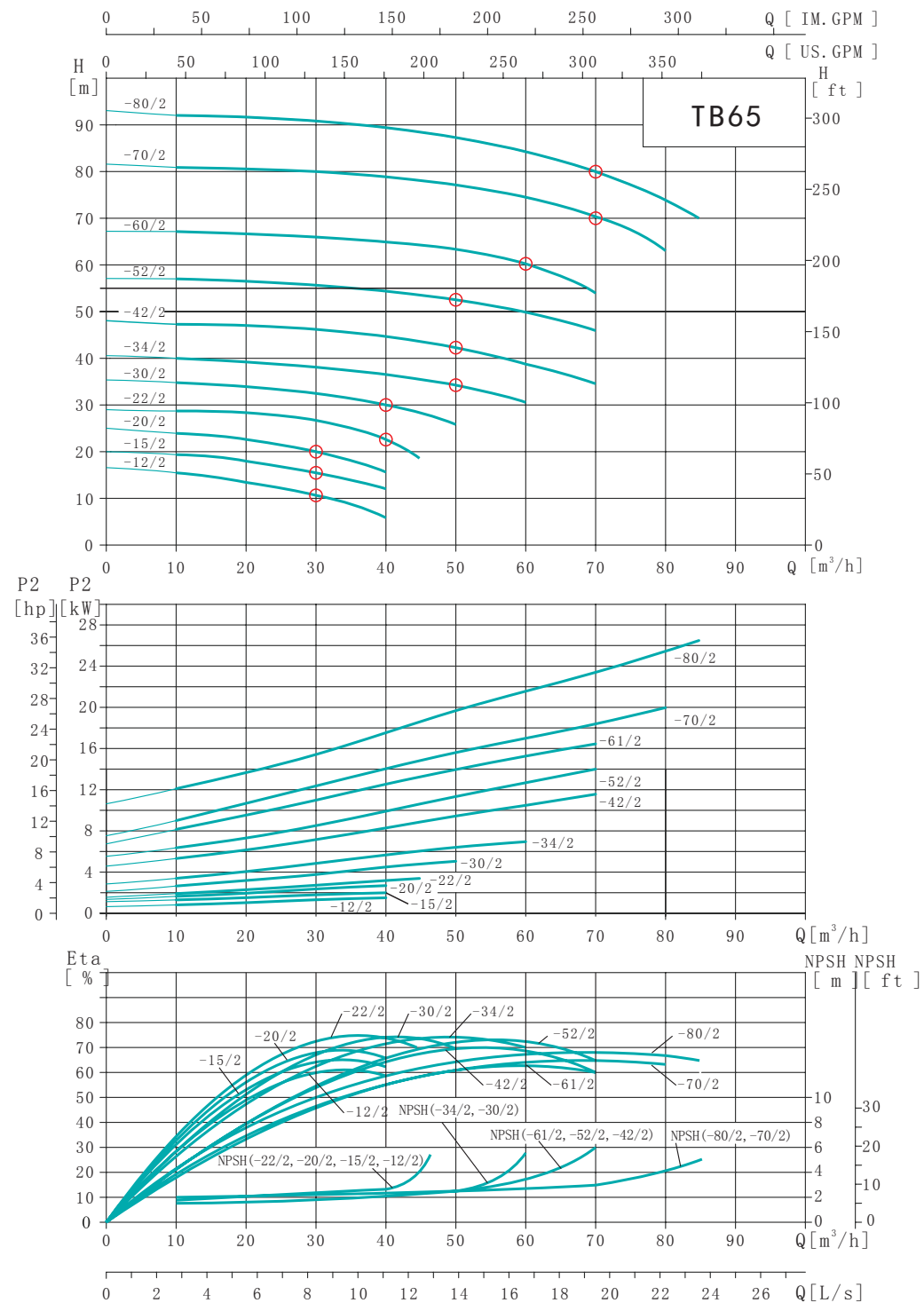


Size and weight

Pump model	Size [mm]											Weight [kg]
	D	B1	B2	B3	B4	B5	H1	H2	H3	L1	L2	
TB50-12/2	200	153	94	122	122	144	115	150	517	340	170	38
TB50-15/2	200	168	106	122	122	144	115	150	558	340	170	42
TB50-18/2	200	168	106	122	122	144	115	150	558	340	170	45
TB50-24/2	250	195	121	122	122	144	115	170	602	340	170	55
TB50-28/2	250	215	138	122	122	144	115	182	640	340	170	64
TB50-36/2	300	260	160	122	122	144	115	222	757	340	170	77
TB50-40/2	300	260	160	168	168	144	115	223	758	440	220	102
TB50-50/2	350	314	251	168	168	144	115	258	871	440	220	171
TB50-60/2	350	314	251	168	168	144	115	258	871	440	220	183
TB50-71/2	350	314	251	168	168	144	115	258	915	440	220	202
TB50-81/2	350	355	267	168	168	144	115	258	951	440	220	242

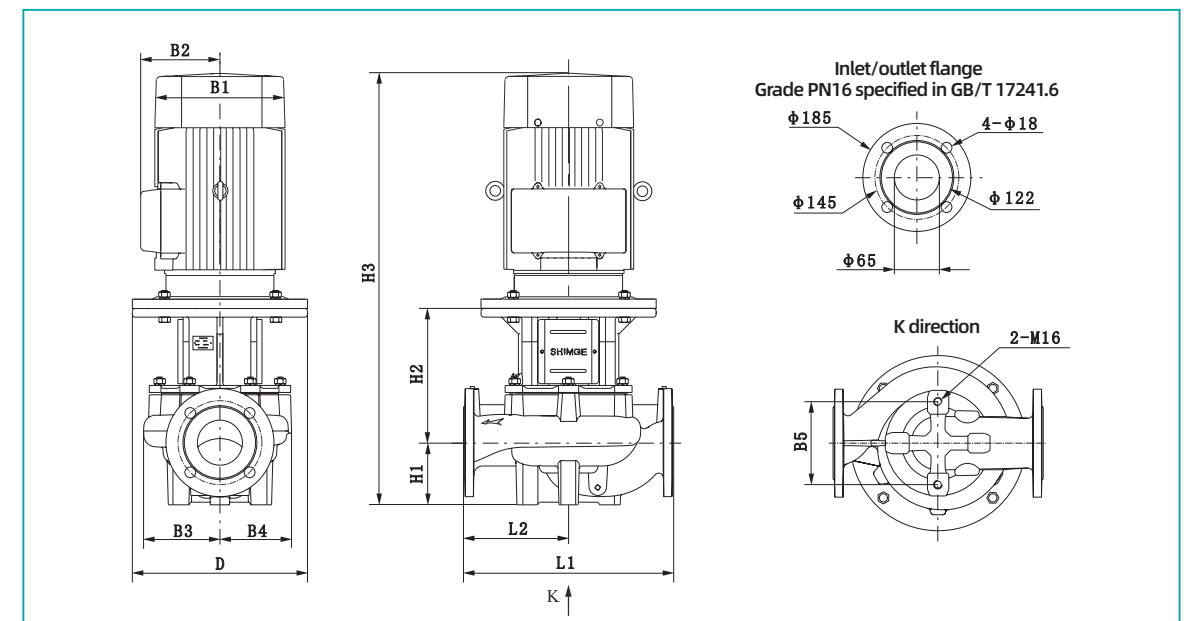
The size of explosion-proof motors has changed, and please contact us for details.

TB65-*/2



Performance Table

Pump model	Motor power (kW)	Q (m³/h)	10	20	25	30	40	50	60	70	80	85
TB65-12/2	1.5	H (m)	15.5	14.1	12	10.7	8					
TB65-15/2	2.2		20.4	18.8	17.2	15	12.5					
TB65-20/2	3		25.2	23.5	21.8	20	18.2					
TB65-22/2	4		29.5	28.2	26.9	25.6	22	43/15				
TB65-30/2	5.5		34.3	33.1	32.7	32.2	30	26.6				
TB65-34/2	7.5		40.2	39.3	38.5	37.7	36.8	34	30.6			
TB65-42/2	11		47.9	46.4	46	45.5	44.1	42	38.3	35.1		
TB65-52/2	15		58.4	56.6	56.2	55.8	54.2	52	48.5	45.1		
TB65-60/2	18.5		67.4	66.7	66.4	66.1	65.1	62.4	60	55.4		
TB65-70/2	22		81.4	80.9	80.5	80.2	79.3	77.6	74.3	70	62	
TB65-80/2	30		92.1	92.0	91.0	90.0	89.0	87.0	84.0	80	74	70

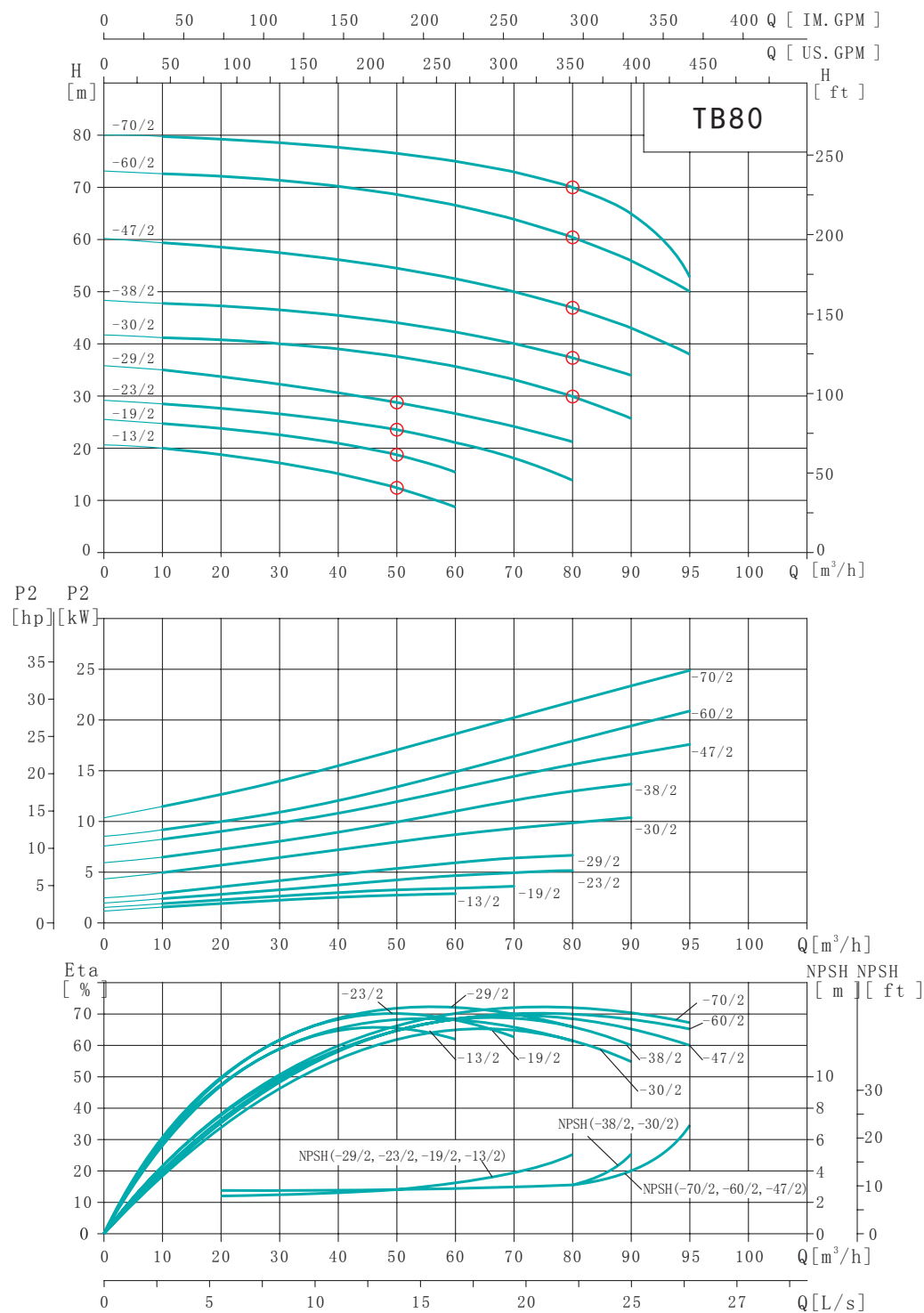


Size and weight

Pump model	Size [mm]											Weight [kg]
	D	B1	B2	B3	B4	B5	H1	H2	H3	L1	L2	
TB65-12/2	200	168	106	133	122	144	105	170	568	360	180	45
TB65-15/2	200	168	106	133	122	144	105	170	568	360	180	48
TB65-20/2	250	195	121	133	122	144	105	190	612	360	180	57
TB65-22/2	250	215	138	133	122	144	105	190	638	360	180	66
TB65-30/2	300	260	160	133	122	144	105	230	755	360	180	79
TB65-34/2	300	260	160	133	122	144	105	230	755	360	180	89
TB65-42/2	350	314	251	170	168	144	125	260	883	475	237.5	175
TB65-52/2	350	314	251	170	168	144	125	260	883	475	237.5	185
TB65-60/2	350	314	251	170	168	144	125	260	927	475	237.5	206
TB65-70/2	350	355	267	170	168	144	125	260	963	475	237.5	246
TB65-80/2	400	397	299	170	168	144	125	260	1046	475	237.5	316

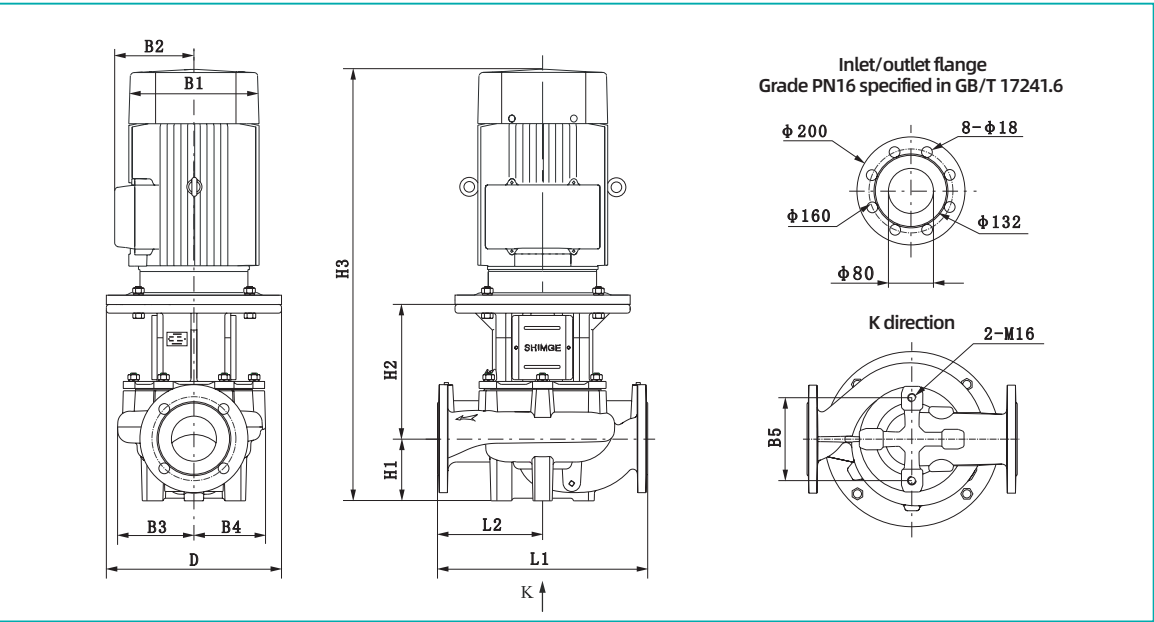
The size of explosion-proof motors has changed, and please contact us for details.

TB80-**-2



Performance Table

Pump model	Motor power (kW)	Q (m³/h)	10	20	30	40	50	60	70	80	90	95
TB80-13/2	3	H (m)	20	18.3	16.7	14.7	13	9.2				
TB80-19/2	4		25	24.2	22.5	20.8	19	15.2				
TB80-23/2	5.5		28.3	27.8	26.4	24.6	23	20.5	17.7	13.6		
TB80-29/2	7.5		34.6	33.5	32.7	31.2	29	25.4	23.3	21.5		
TB80-30/2	11		41.8	41.3	40.4	39.1	37.4	35.2	33.1	30	26.5	
TB80-38/2	15		48.1	47.9	47.3	46.1	45.2	42.7	40.1	38	34	
TB80-47/2	18.5		59.2	57.6	57.1	55.7	54.1	52	49.8	47	42.6	38.2
TB80-60/2	22		72.1	71	70.4	69.2	68.1	65.4	62.8	60	55.4	50.2
TB80-70/2	30		79.7	79.2	78.7	78	76	74.8	71.5	70	65.2	53.2

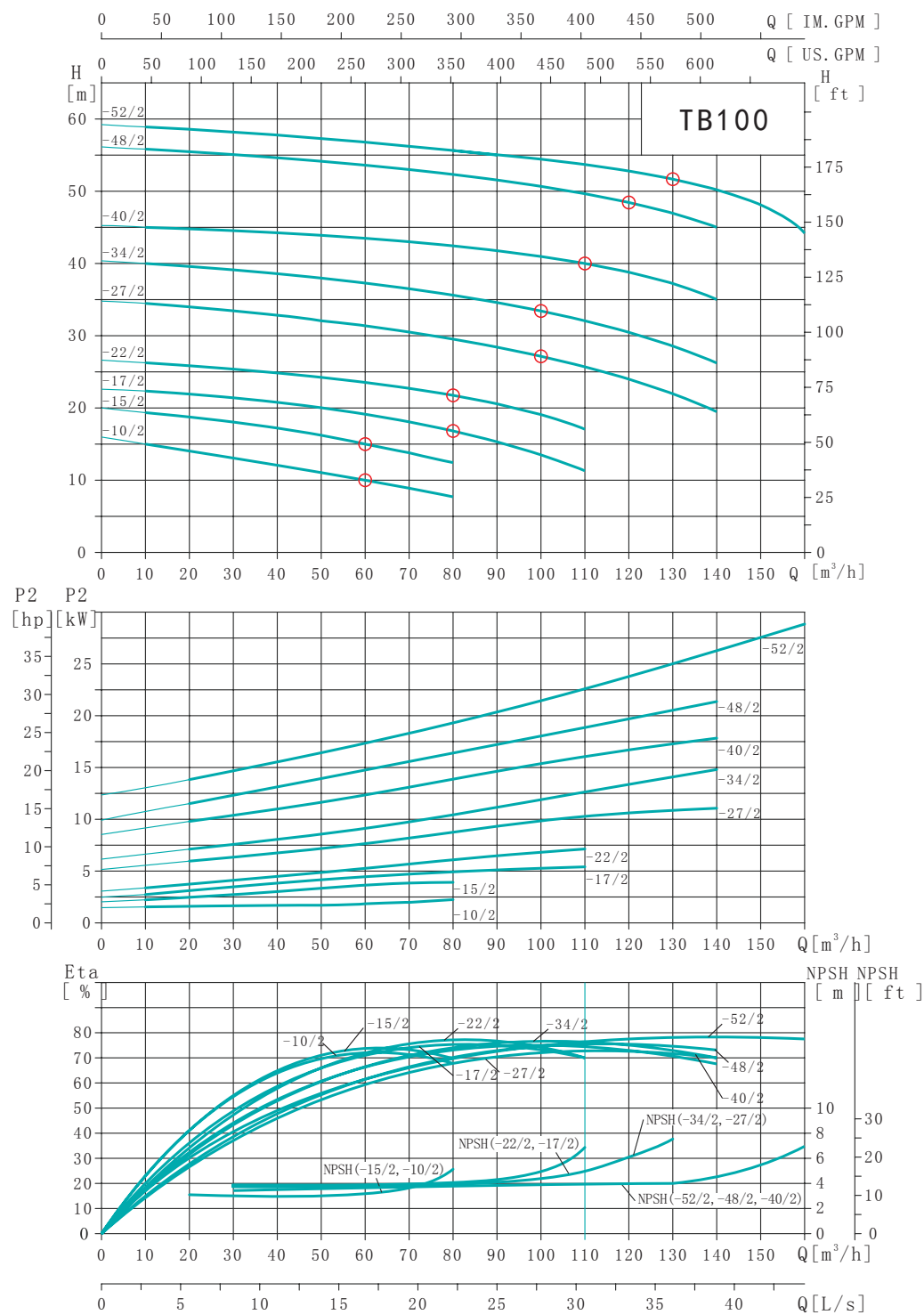


Size and weight

Pump model	Size [mm]											Weight [kg]
	D	B1	B2	B3	B4	B5	H1	H2	H3	L1	L2	
TB80-13/2	250	195	121	132	122	144	97	200	614	440	220	61
TB80-19/2	250	215	138	132	122	144	97	200	640	440	220	69
TB80-23/2	300	260	160	132	122	144	97	240	757	440	220	83
TB80-29/2	300	260	160	132	122	144	97	240	757	440	220	93
TB80-30/2	350	314	251	175	167	144	115	275	888	500	250	176
TB80-38/2	350	314	251	175	167	144	115	275	888	500	250	187
TB80-47/2	350	314	251	175	167	144	115	275	932	500	250	208
TB80-60/2	350	355	267	175	167	144	115	275	968	500	250	247
TB80-70/2	400	397	299	175	167	144	115	275	1051	500	250	318

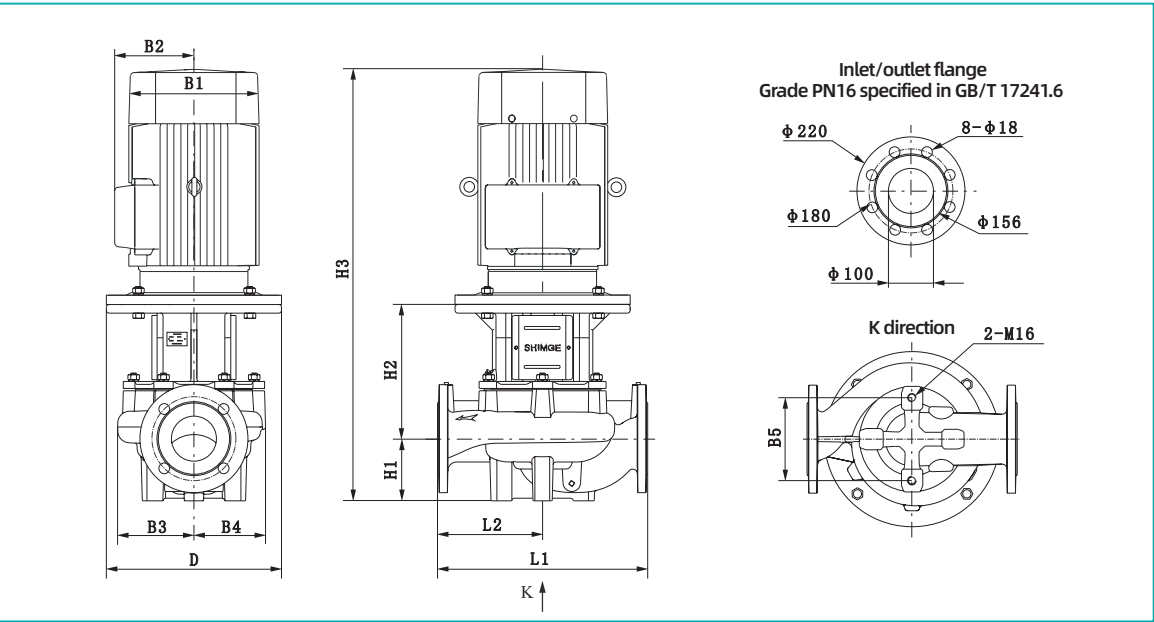
The size of explosion-proof motors has changed, and please contact us for details.

TB100-*/2



Performance Table

Pump model	Motor power (kW)	Q (m³/h)	10	20	30	40	50	60	70	80	90	100	110	120	130	140	160
TB100-10/2	3	H (m)	15.4	15	14.5	13	11.8	10	9	7.3							
TB100-15/2	4		19.2	19.1	18.7	17.7	16.7	15	14.4	12.8							
TB100-17/2	5.5		22.2	21.5	20.9	20.5	19.7	18.6	17.8	17	15.5	13.6	11.1				
TB100-22/2	7.5		26.7	26.3	25.8	25.1	24.4	23.8	22.9	22	21.1	19.6	17.5				
TB100-27/2	11		34.5	34.2	33.6	32.8	32.2	31.7	30.8	29.9	28.3	27	25.5	23.6	20.8	19.6	
TB100-34/2	15		40.5	40.2	39.7	39.4	39.1	38.4	37.3	36.8	35.2	34	32.2	31.2	27.5	26.5	
TB100-40/2	18.5		44.7	44.6	44.4	44.2	43.9	43.6	43.3	43.0	42.2	41	40	38.2	37.2	35.5	
TB100-48/2	22		56.7	56.5	56.3	56.2	55.7	55.1	54.2	53.6	52.4	51.3	49.3	48	46.4	45.5	
TB100-52/2	30		57.9	57.6	57.2	56.9	56.8	56.7	56.5	56.2	55.7	54.5	53.2	52.5	52	49.5	44.5

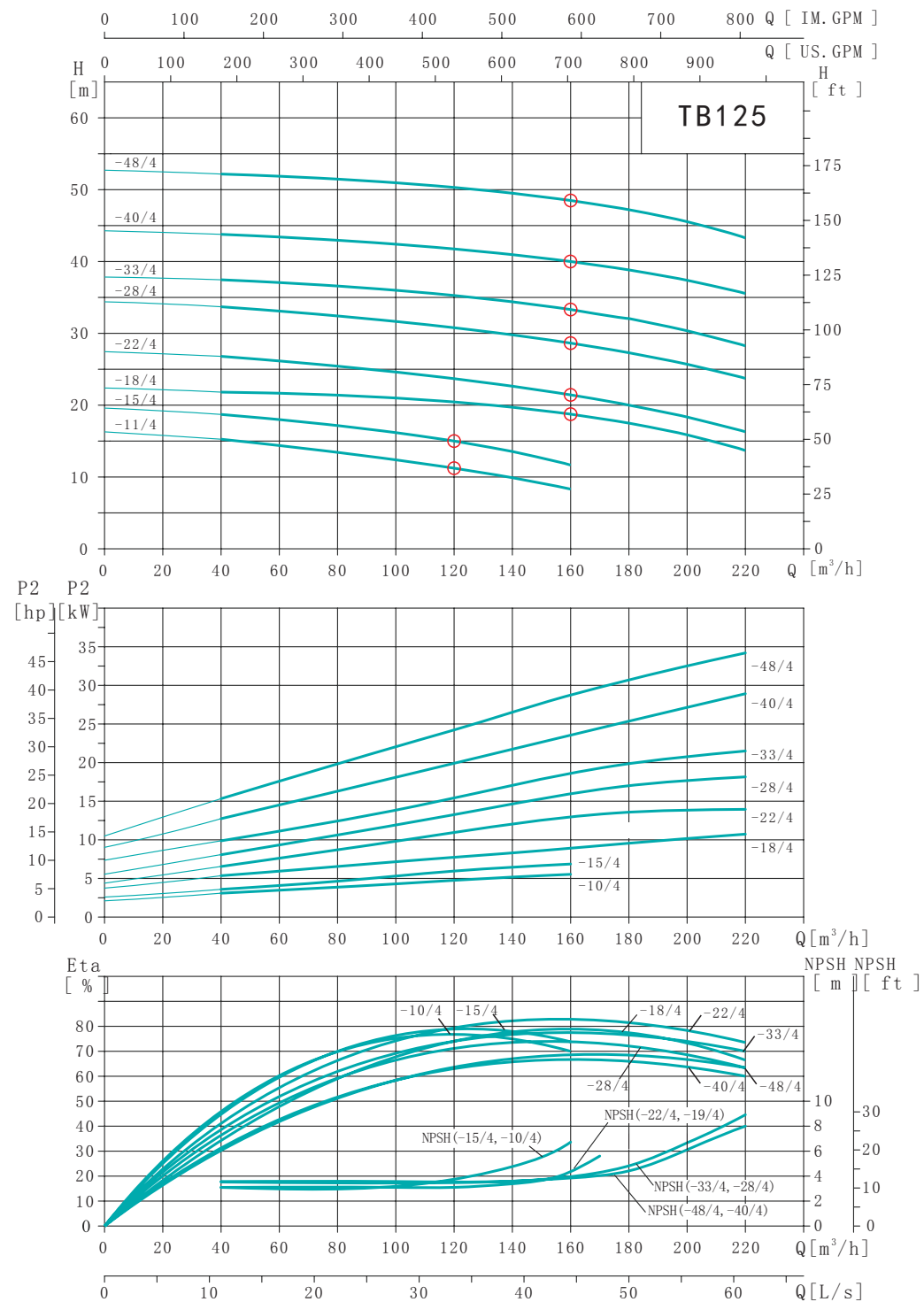


Size and weight

Pump model	Size [mm]											Weight [kg]
	D	B1	B2	B3	B4	B5	H1	H2	H3	L1	L2	
TB100-10/2	250	195	121	148	122	144	105	190	612	450	225	61
TB100-15/2	250	215	138	148	122	144	105	190	638	450	225	65
TB100-17/2	300	260	160	148	122	144	140	230	790	500	250	92
TB100-22/2	300	260	160	148	122	144	140	230	790	500	250	102
TB100-27/2	350	314	251	148	123	144	140	265	903	550	275	172
TB100-34/2	350	314	251	148	123	144	140	265	903	550	275	182
TB100-40/2	350	314	251	168	168	230	140	270	952	550	275	221
TB100-48/2	350	355	267	168	168	230	140	270	988	550	275	260
TB100-52/2	400	397	299	168	168	230	140	270	1071	550	275	331

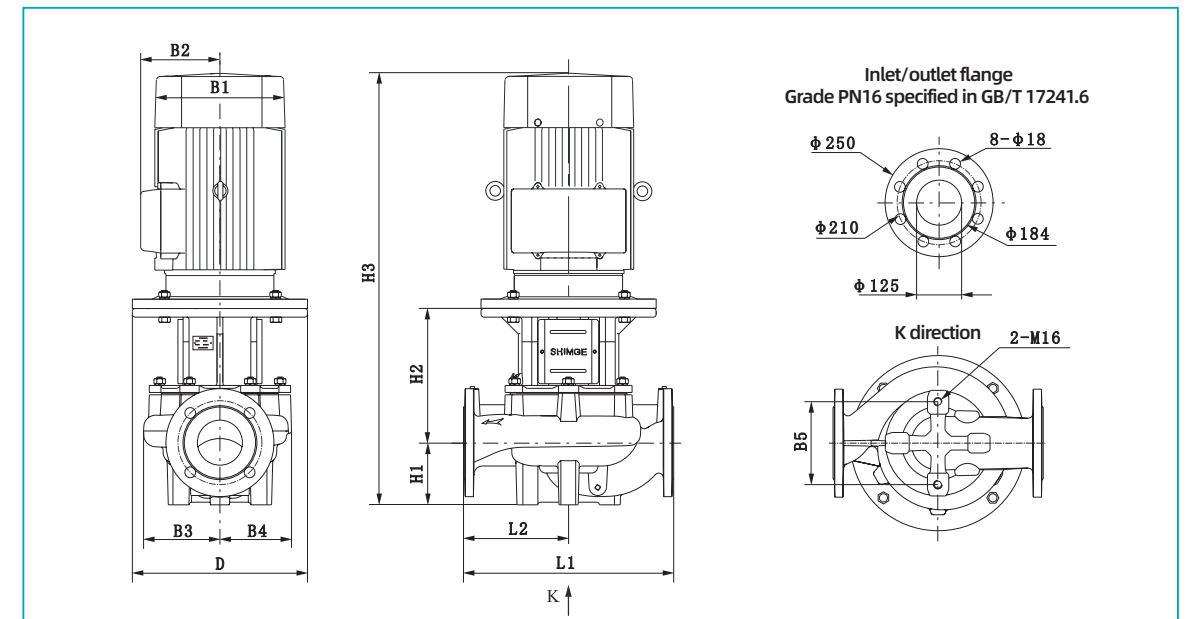
The size of explosion-proof motors has changed, and please contact us for details.

TB125-**-4



Performance Table

Pump model	Motor power (kW)	Q (m³/h)	40	60	80	100	120	140	160	180	200	220
TB125-11/4	5.5	H (m)	15.3	14.6	14.1	13.1	11	10	8			
TB125-15/4	7.5		18.4	18.1	17.4	16.4	15	13.4	11.8			
TB125-18/4	11		22.7	22.6	22.4	21.8	21.1	20.2	18	17.7	16.5	14.3
TB125-22/4	15		25.9	25.7	25.4	24.5	23.8	23.1	22	20.8	19.2	16.5
TB125-28/4	18.5		33.5	33.2	32.6	31.4	30.9	29.2	28	27.1	26.3	23.7
TB125-33/4	22		37.3	37.1	36.8	36.5	35.3	34.2	33	31.8	30.7	28.4
TB125-40/4	30		44.0	43.4	42.8	42.3	41.7	41.1	40	39.2	37.8	35.6
TB125-48/4	37		51.6	51.1	50.8	50.5	50.1	49.2	48	46.8	44.6	42.7

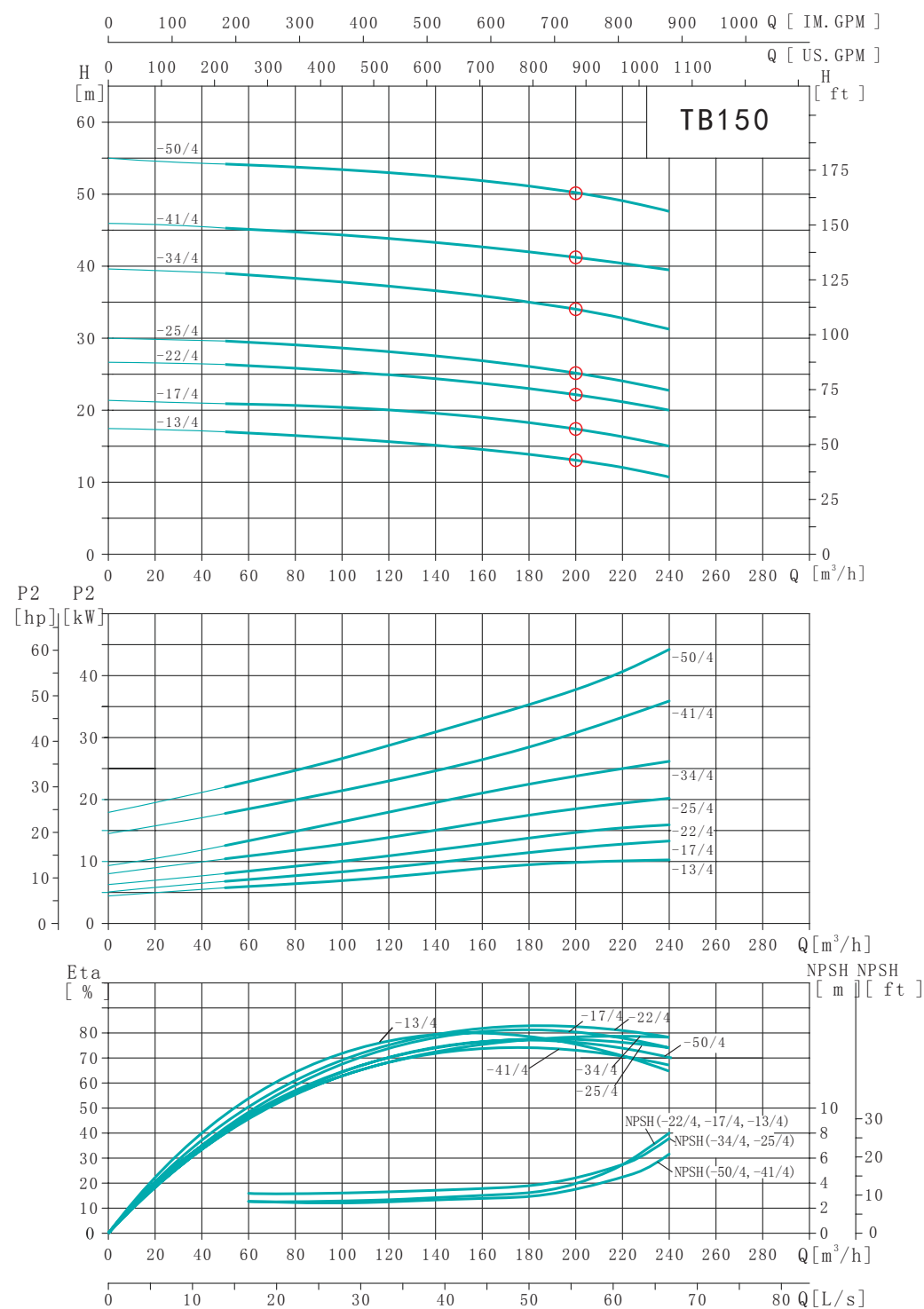


Size and weight

Pump model	Size [mm]											Weight [kg]
	D	B1	B2	B3	B4	B5	H1	H2	H3	L1	L2	
TB125-11/4	300	260	160	205	170	230	215	235	870	620	310	145
TB125-15/4	300	260	160	205	170	230	215	235	870	620	310	155
TB125-18/4	350	314	251	225	191	230	215	290	1003	800	400	252
TB125-22/4	350	314	251	225	191	230	215	290	1047	800	400	273
TB125-28/4	350	355	267	248	219	230	215	285	1078	800	400	333
TB125-33/4	350	355	267	248	219	230	215	285	1116	800	400	362
TB125-40/4	400	397	299	273	261	230	215	320	1196	800	400	454
TB125-48/4	450	446	322	273	261	230	215	320	1219	800	400	524

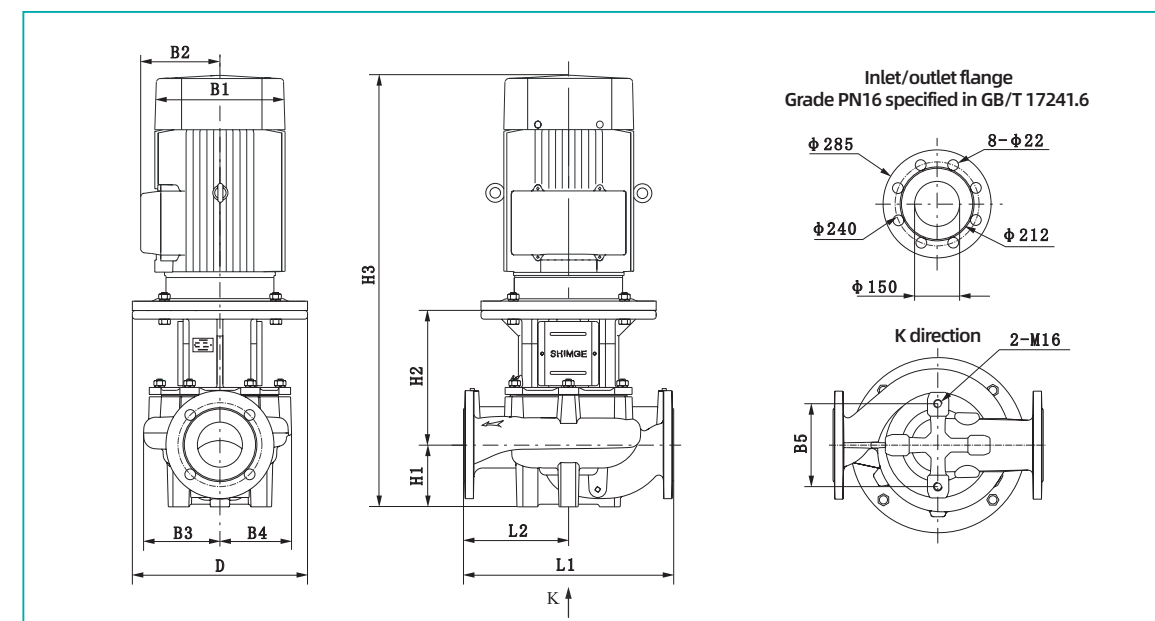
The size of explosion-proof motors has changed, and please contact us for details.

TB150-**-4



Performance Table

Pump model	Motor power (kW)	Q (m³/h)	50	80	100	120	140	160	180	200	220	240
TB150-13/4	11	H (m)	16.7	16.4	15.6	15.2	14.6	13.8	13.4	13	12.5	11
TB150-17/4	15		20.7	20.3	19.9	19.6	18.8	17.9	17.4	17	16.1	15.2
TB150-22/4	18.5		26.3	26.1	25.7	25.2	24.6	23.4	22.8	22	21.1	20.2
TB150-25/4	22		29.6	29.3	28.8	28.2	27.4	26.5	25.9	25	24.1	22.4
TB150-34/4	30		39.1	38.7	38.2	37.8	37.1	36.1	35.2	34	32.7	31.6
TB150-41/4	37		45.4	45	44.7	44.4	43.7	43.2	42.3	41	40.5	39.3
TB150-50/4	45		54.5	54.2	54.1	53.8	53.3	52.1	51.3	50	49.3	48.7

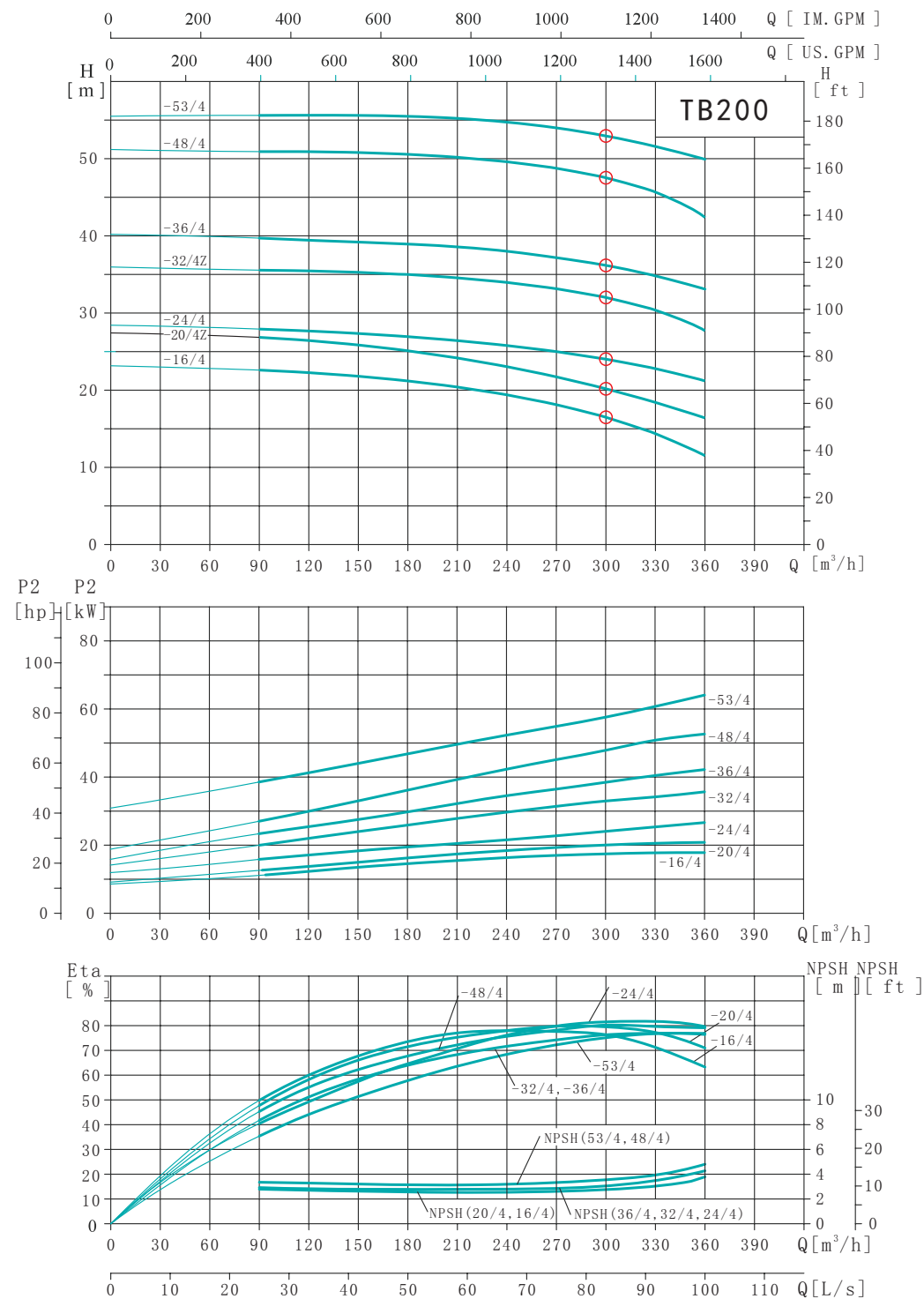


Size and weight

Pump model	Size [mm]											Weight [kg]
	D	B1	B2	B3	B4	B5	H1	H2	H3	L1	L2	
TB150-13/4	350	314	251	242	202	230	215	275	988	800	400	244
TB150-17/4	350	314	251	242	202	230	215	275	1032	800	400	281
TB150-22/4	350	355	267	265	231	230	215	285	1078	800	400	346
TB150-25/4	350	355	267	265	231	230	215	285	1116	800	400	379
TB150-34/4	400	397	299	265	231	230	215	315	1181	800	400	457
TB150-41/4	450	446	322	285	262	230	230	285	1199	900	450	536
TB150-50/4	450	446	322	285	262	230	230	285	1224	900	450	559

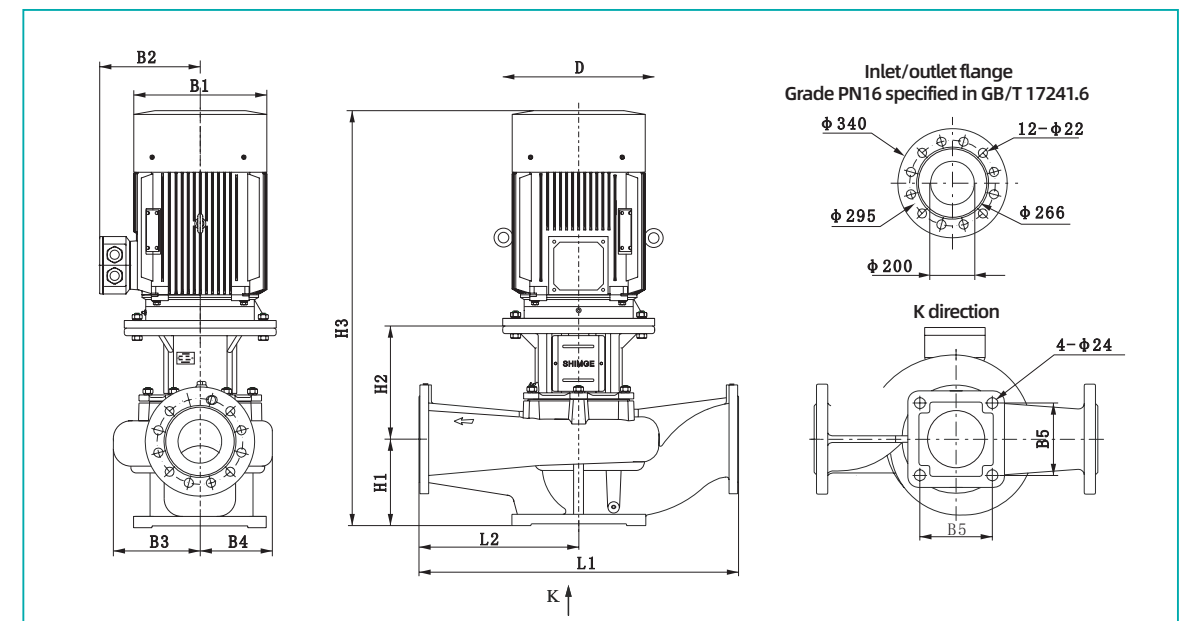
The size of explosion-proof motors has changed, and please contact us for details.

TB200-*/4



Performance Table

Pump model	Motor power (kW)	Q (m³/h)	90	120	150	180	210	240	270	300	330	360
TB200-16/4	18.5	H (m)	23.5	23.2	22.8	22.3	21.5	19.3	18.6	16	14.3	12.1
TB200-20/4Z	22		27.4	27.2	26.6	25.1	24.2	22.8	21.4	20	18.5	16.3
TB200-24/4	30		28.6	27.5	26.9	26.4	25.8	25.4	24.8	24	23.5	21.5
TB200-32/4Z	37		35.6	35.4	35.2	35.0	34.7	34.1	33.1	32	30.4	28.7
TB200-36/4	45		39.6	39.4	39.1	38.8	38.5	37.9	37	36	34.7	33
TB200-48/4	55		52.6	52.1	51.4	50.7	50.2	49.5	48.9	48	45.2	42.9
TB200-53/4	75		55.7	55.6	55.6	55.4	55.1	54.7	54.2	53	51.5	50.1

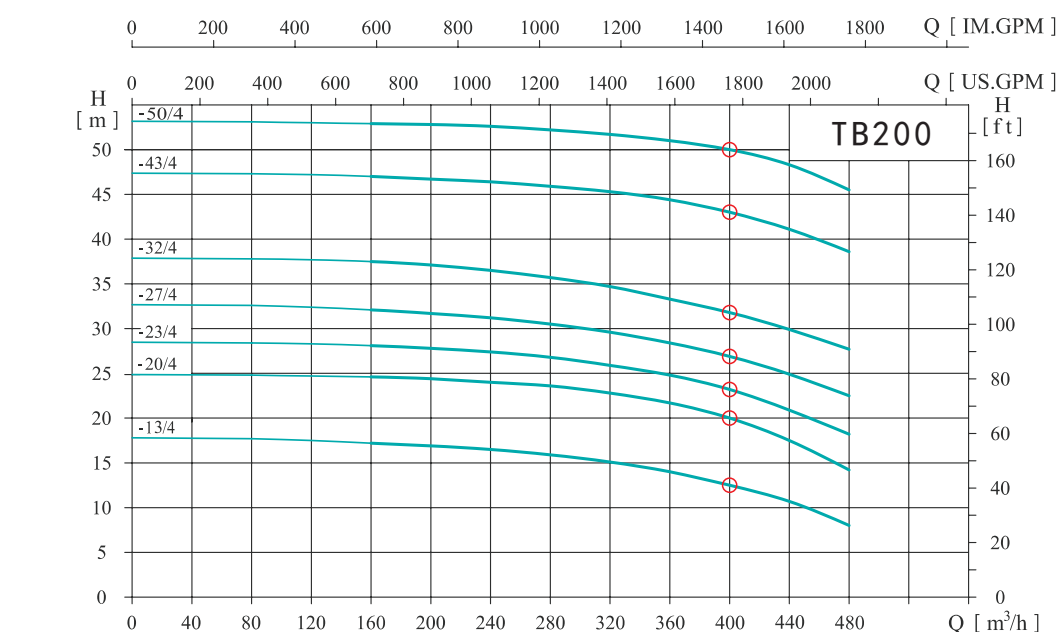
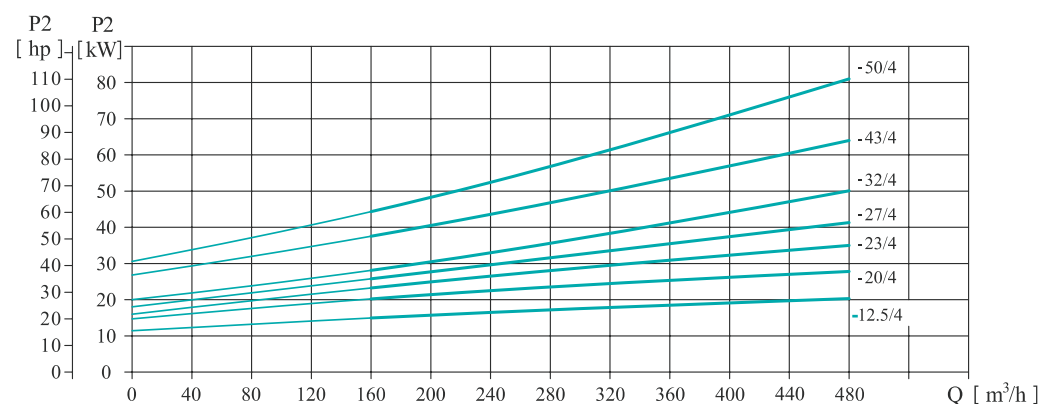
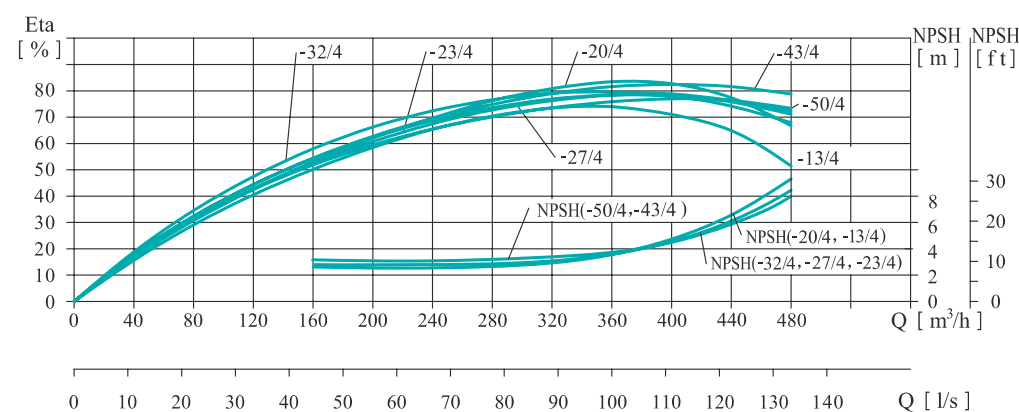


Size and weight

Pump model	Size [mm]											Weight [kg]
	D	B1	B2	B3	B4	B5	H1	H2	H3	L1	L2	
TB200-16/4	350	355	267	308	253	360	270	415	1263	1000	500	415
TB200-20/4	350	355	267	308	253	360	270	415	1301	1000	500	427
TB200-24/4	400	397	299	312	263	360	270	487	1418	1100	550	490
TB200-32/4	450	446	322	312	263	360	270	517	1471	1100	550	602
TB200-36/4	450	446	322	312	263	360	270	517	1496	1100	550	635
TB200-48/4	550	485	358	322	281	360	270	513	1553	1100	550	706
TB200-53/4	550	547	387	322	281	360	270	513	1625	1100	550	777

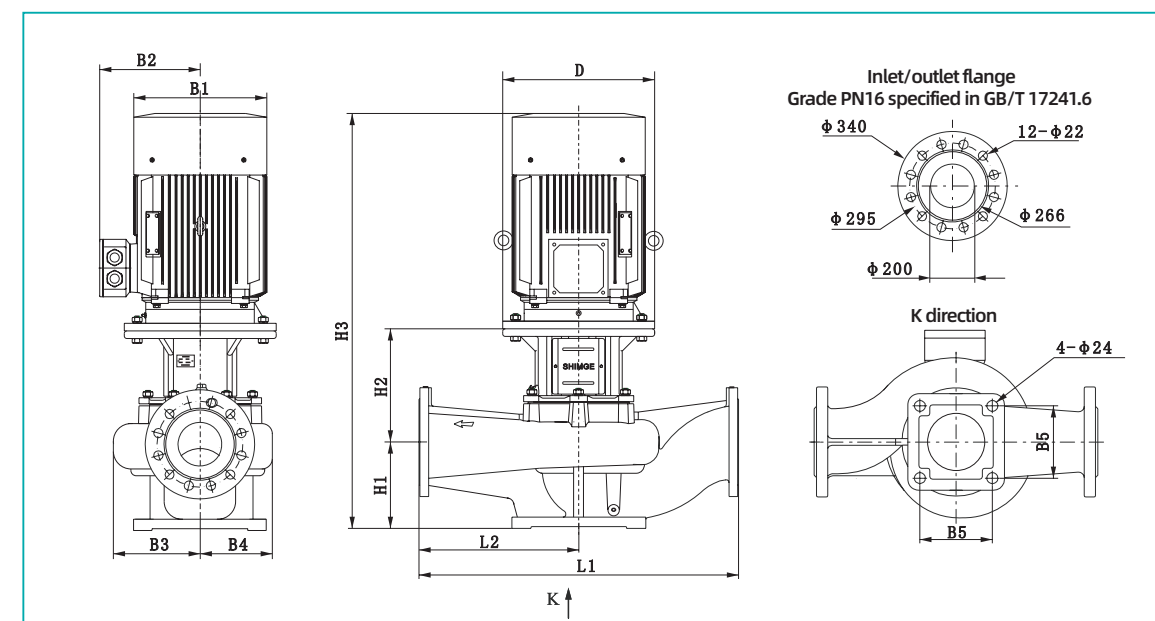
The size of explosion-proof motors has changed, and please contact us for details.

TB200-**-4



Performance Table

Pump model	Motor power (kW)	Q (m³/h)	160	200	240	280	320	360	400	440	480
TB200-13/4	22	H (m)	17.5	16.9	16.4	15.8	14.8	13.8	13	11.3	9.5
TB200-20/4	30		24.6	24.4	24.1	23.4	22.8	21.5	20	18.2	15.5
TB200-23/4	37		28.5	27.8	27.3	26.6	25.8	24.5	23	20.8	18.5
TB200-27/4	45		32.2	31.8	31.4	30.8	29.6	28.7	27	25.8	22.7
TB200-32/4	55		37.5	37.1	36.5	35.8	34.7	33.5	32	29.5	27.2
TB200-43/4	75		47.1	46.3	45.7	45.2	44.5	43.7	43	41.4	38.3
TB200-50/4	90		56.5	55.8	54.7	53.5	52.3	51.2	50	48.2	45.6

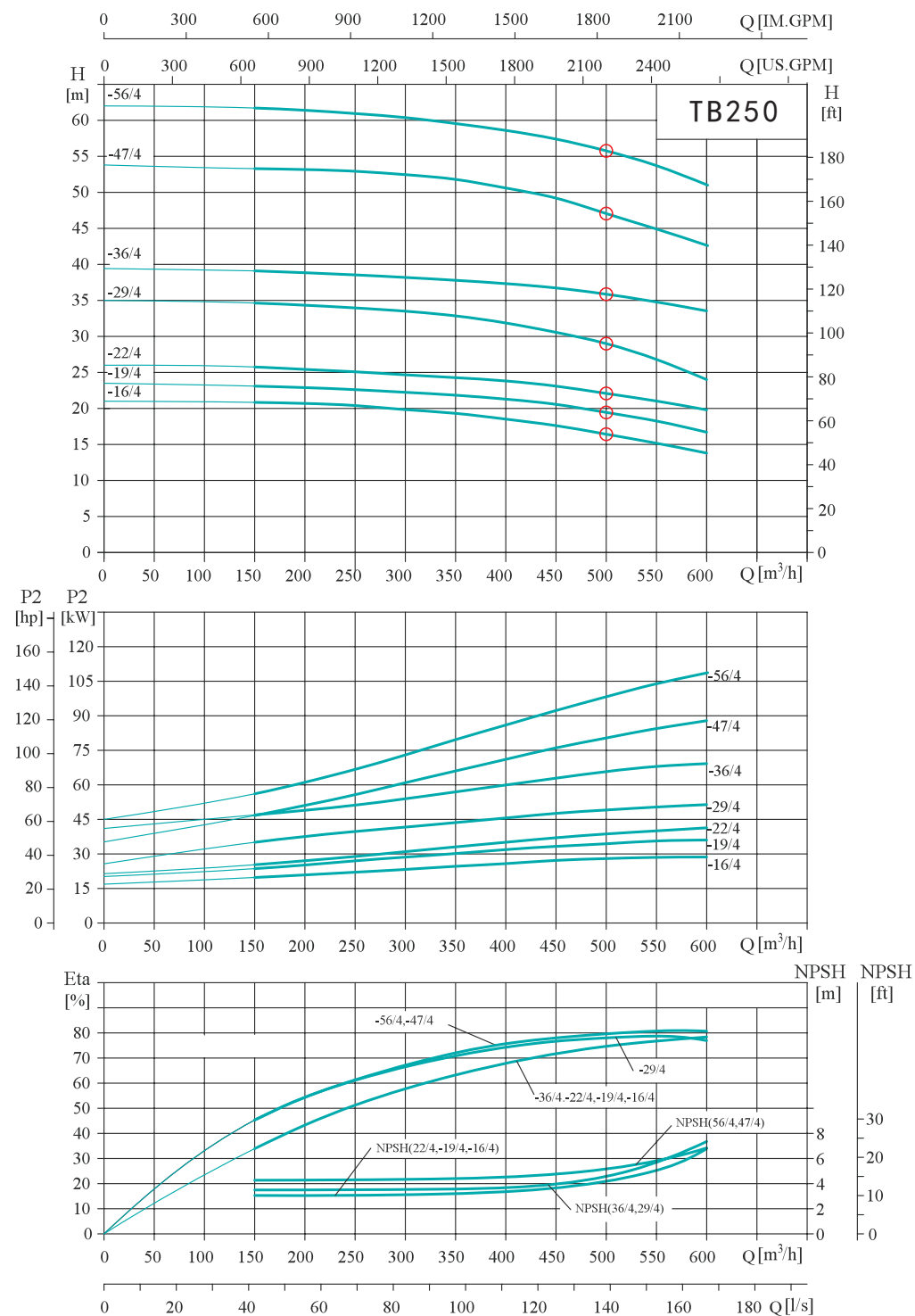


Size and weight

Pump model	Size [mm]											Weight [kg]
	D	B1	B2	B3	B4	B5	H1	H2	H3	L1	L2	
TB200-13/4	350	355	267	308	253	360	270	415	1301	1000	500	430
TB200-20/4	400	397	299	308	253	360	270	415	1346	1000	500	492
TB200-23/4	450	446	322	312	263	360	270	517	1471	1100	550	605
TB200-27/4	450	446	322	312	263	360	270	517	1496	1100	550	638
TB200-32/4	550	485	358	312	263	360	270	517	1557	1100	550	710
TB200-43/4	550	547	387	322	281	360	270	513	1625	1100	550	880
TB200-50/4	550	547	387	322	281	360	270	513	1676	1100	550	972

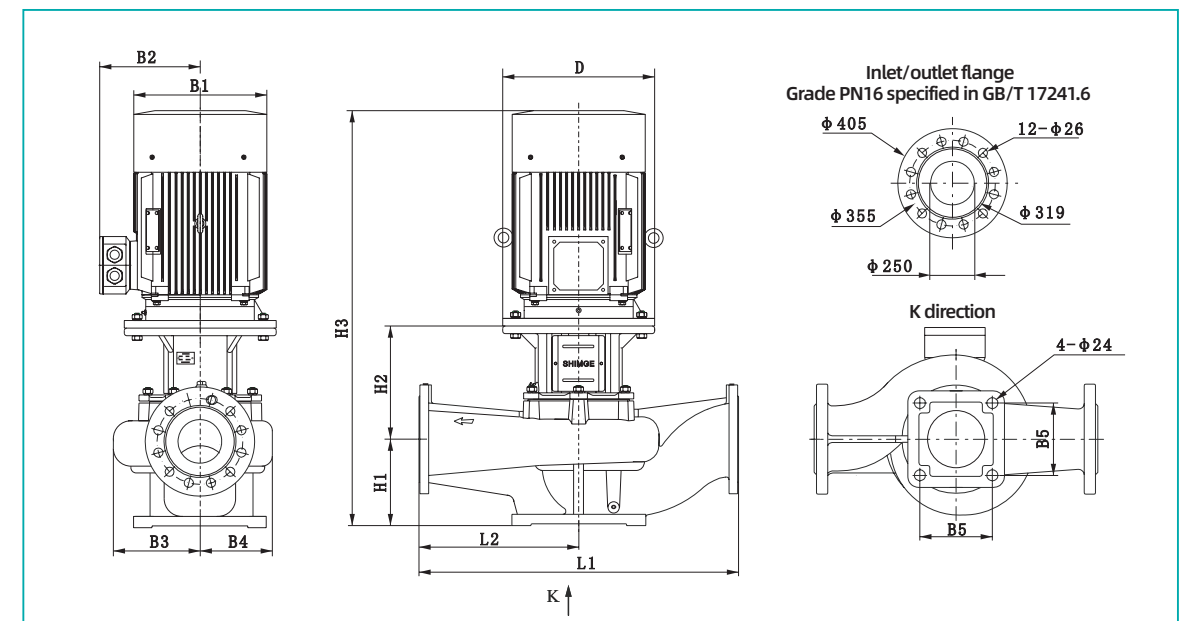
The size of explosion-proof motors has changed, and please contact us for details.

TB250-*/4



Performance Table

Pump model	Motor power (kW)	Q (m³/h)	150	200	250	300	350	400	450	500	550	600
TB250-16/4	30	H (m)	20.6	20.4	20.1	19.6	19.1	18.5	17.2	16	14.7	13.2
TB250-19/4	37		22.7	22.4	22.2	21.6	21.1	20.3	19.5	19	17.5	16.6
TB250-22/4	45		26.2	25.8	25.4	24.8	24.4	23.7	23.1	22	21.2	19.8
TB250-29/4	55		34.6	34.2	33.9	33.1	32.4	31.6	30.7	29	27.2	24.1
TB250-36/4	75		39.2	38.8	38.5	37.8	37.4	37.1	36.6	36	34.3	32.4
TB250-47/4	90		53.6	53.1	52.8	52.4	51.8	50.6	48.8	47	45.6	42.2
TB250-56/4	110		61.6	61.1	60.5	60.1	59.7	58.5	57.4	56	53.6	51.2

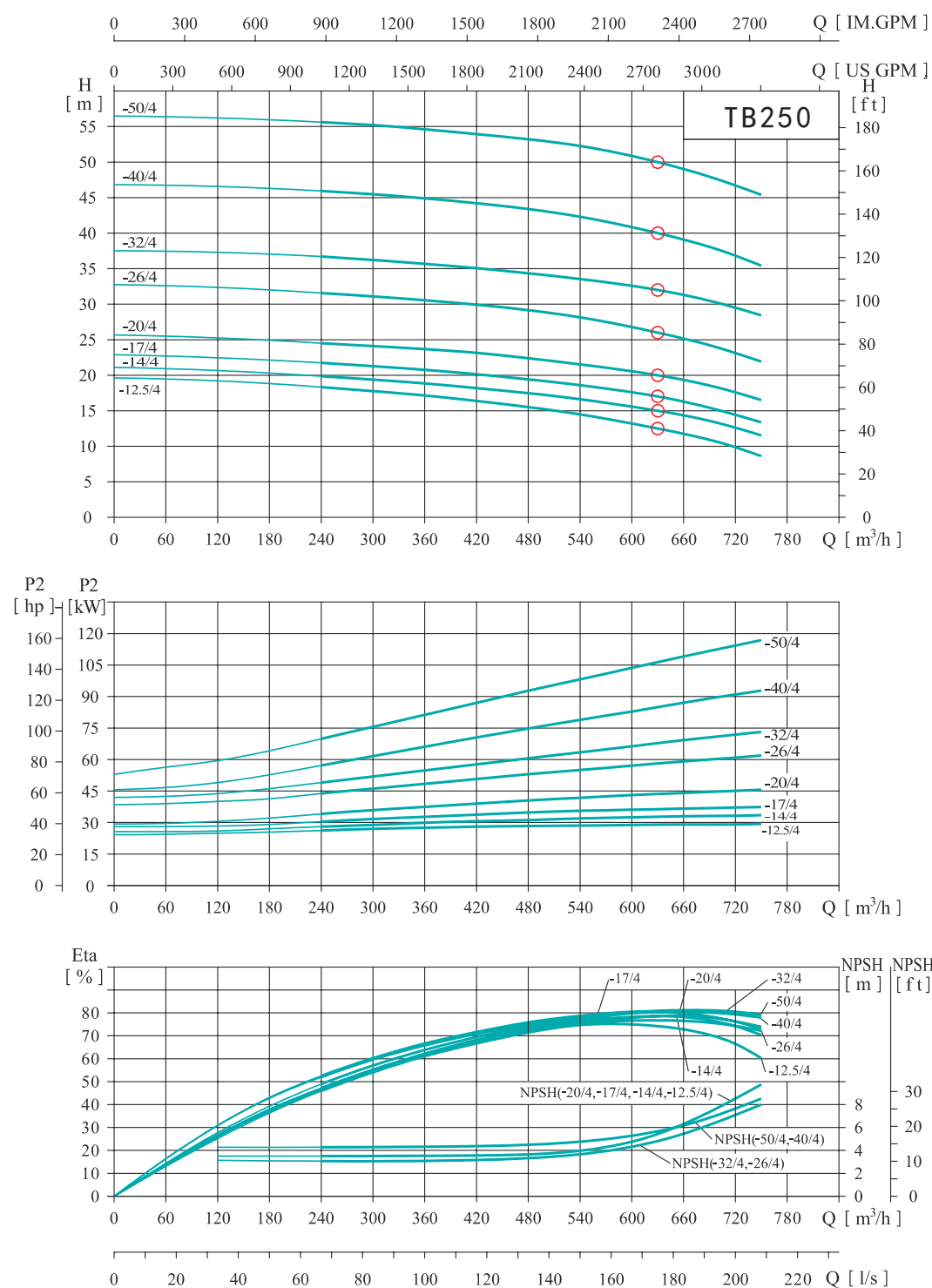


Size and weight

Pump model	Size [mm]											Weight [kg]
	D	B1	B2	B3	B4	B5	H1	H2	H3	L1	L2	
TB250-16/4	400	397	299	371	297	390	300	502	1475	1100	550	543
TB250-19/4	450	446	322	371	297	390	300	532	1528	1100	550	615
TB250-22/4	450	446	322	371	297	390	300	532	1553	1100	550	645
TB250-29/4	550	485	358	353	297	440	300	534	1604	1100	550	770
TB250-36/4	550	547	387	353	297	440	300	534	1676	1100	550	895
TB250-47/4	550	547	387	374	322	440	305	539	1725	1200	600	1021
TB250-56/4	660	620	527	374	322	440	305	584	1915	1200	600	1357

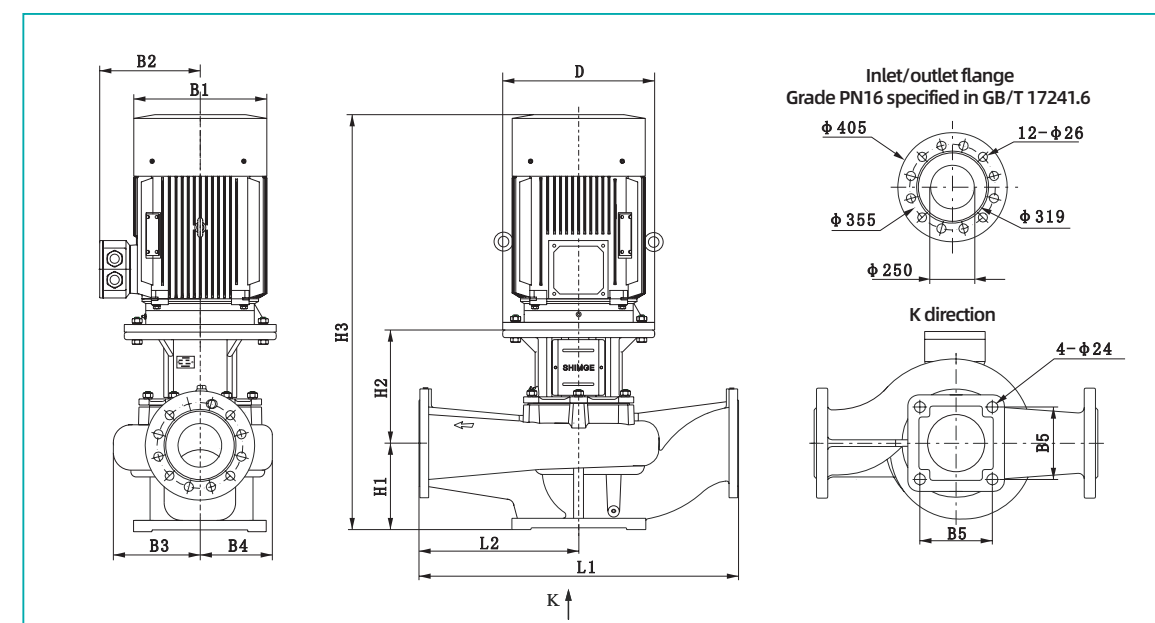
The size of explosion-proof motors has changed, and please contact us for details.

TB250-**-4



Performance Table

Pump model	Motor power (kW)	Q (m³/h)	240	300	360	420	480	540	600	630	660	720	750
TB250-12.5/4	30	H (m)	18.5	17.9	17.4	16.8	15.7	14.4	13.8	12.5	11.7	10.2	9.1
TB250-14/4	37		20.5	19.8	19.2	18.6	17.8	16.6	15.7	14	13.3	12.5	11.2
TB250-17/4	45		22.3	21.7	20.8	20.2	19.5	18.8	17.5	17	16.4	15.2	13.8
TB250-20/4	55		24.5	24.2	23.6	23.1	22.6	21.7	20.8	20	19.2	18.1	16.7
TB250-26/4	75		31.5	31.1	30.6	29.8	28.9	27.7	26.8	26	25.1	24.2	22.5
TB250-32/4	90		37.2	36.8	35.7	35.2	34.7	33.8	32.6	32	31.3	29.2	28.1
TB250-40/4	110		46.5	45.9	45.3	44.3	43.6	42.5	41.1	40	38.8	36.2	35.2
TB250-50/4	132		55.2	54.9	54.5	53.8	53.2	52.4	51.2	50	48.7	46.2	45.3

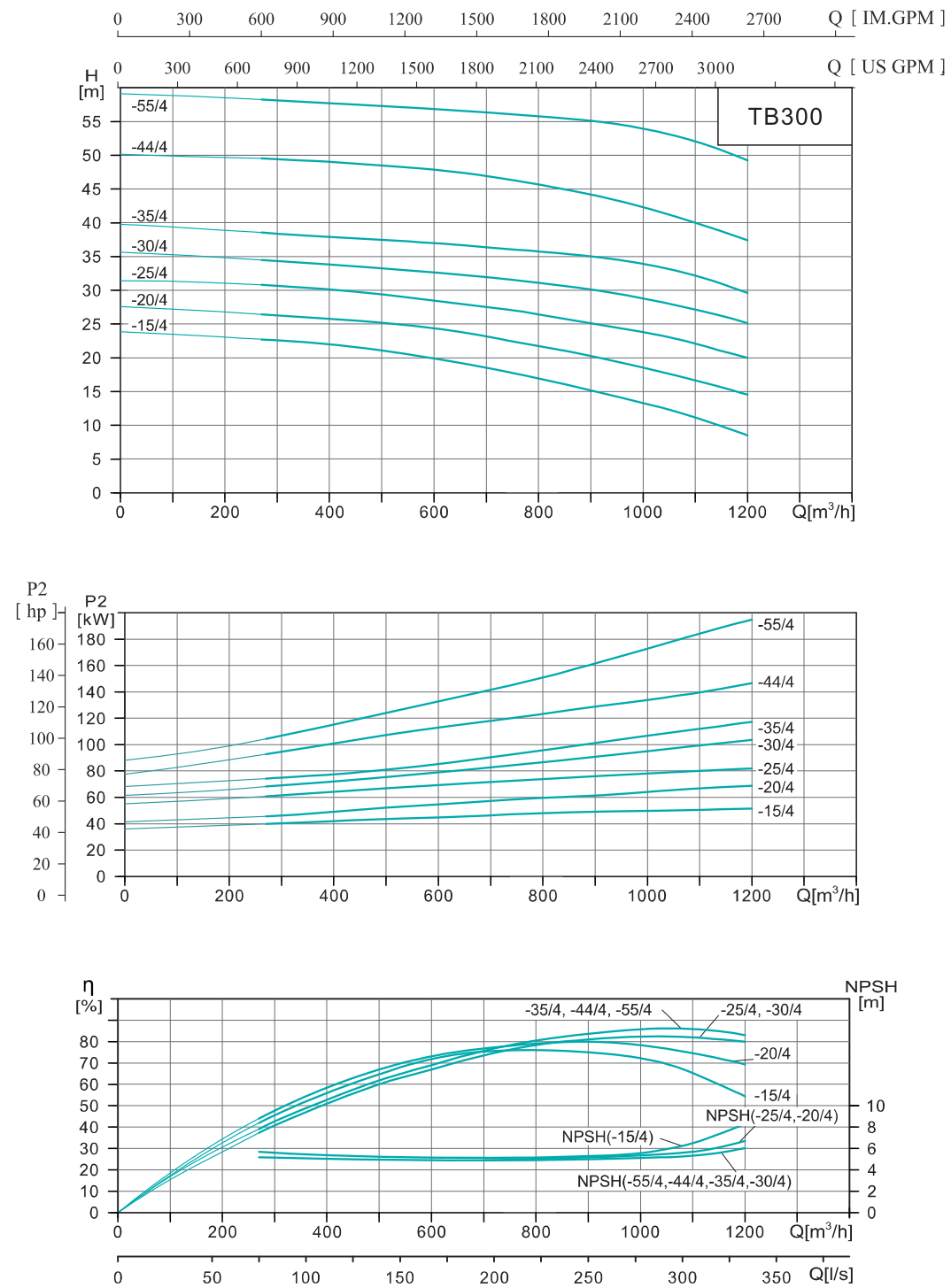


Size and weight

Pump model	Size [mm]											Weight [kg]
	D	B1	B2	B3	B4	B5	H1	H2	H3	L1	L2	
TB250-12.5/4	400	397	299	371	297	390	300	502	1475	1100	550	545
TB250-14/4	450	446	322	371	297	390	300	532	1528	1100	550	617
TB250-17/4	450	446	322	371	297	390	300	532	1553	1100	550	648
TB250-20/4	550	485	358	371	297	390	300	532	1614	1100	550	774
TB250-26/4	550	547	387	353	297	440	300	534	1676	1100	550	898
TB250-32/4	550	547	387	353	297	440	300	534	1727	1100	550	1024
TB250-40/4	660	620	527	374	322	440	305	584	1915	1200	600	1361
TB250-50/4	660	620	527	374	322	440	305	584	2025	1200	600	1445

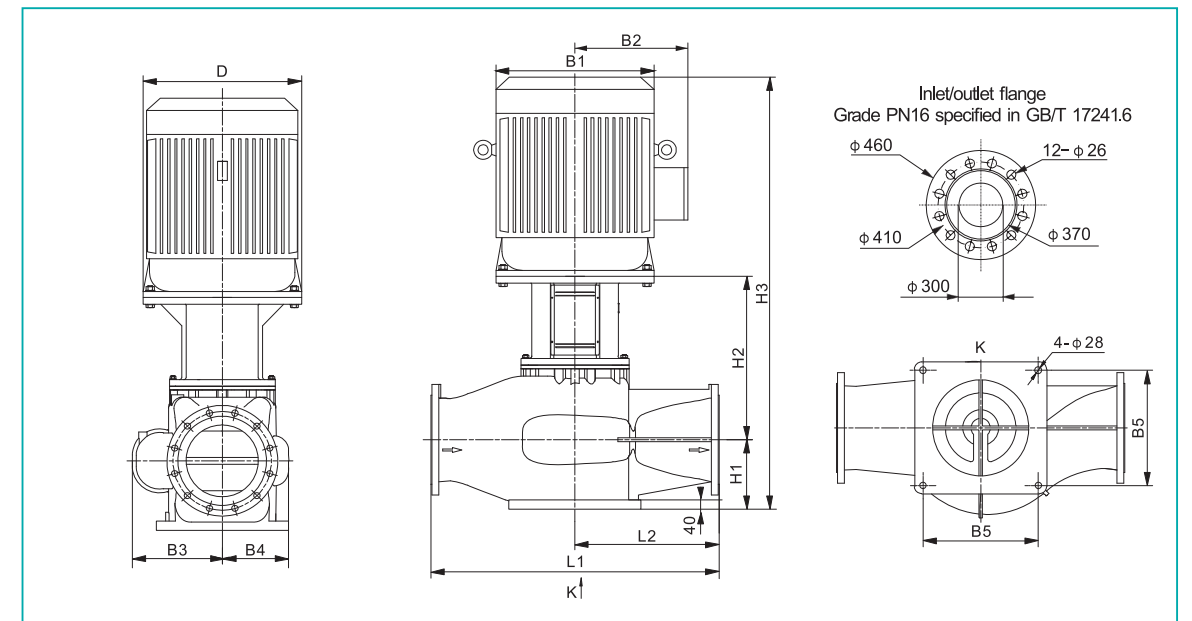
The size of explosion-proof motors has changed, and please contact us for details.

TB300-**-4



Performance Table

Pump model	Motor power (kW)	Q (m³/h)	270	360	450	630	750	900	1080	1200
TB300-15/4	55	H (m)	22.7	22.3	21.6	19.5	17.8	15	11.6	8.5
TB300-20/4	75		26.4	26	25.5	24.1	22.4	20	17.1	14.5
TB300-25/4	90		30.8	30.4	29.8	28.2	27.1	25	22.5	20
TB300-30/4	110		34.5	34	33.5	32.4	31.6	30	27.5	25
TB300-35/4	132		38.6	38.1	37.8	36.9	36	35	32.6	29.6
TB300-44/4	160		49.5	49.2	48.8	47.6	46.3	44	40.5	37.5
TB300-55/4	200		58.2	57.9	57.6	56.7	56.1	55	52.5	49.2



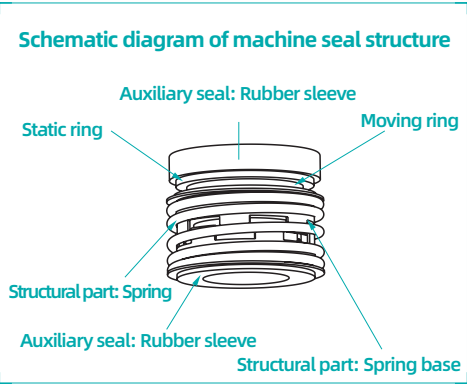
Size and weight

Pump model	Size [mm]											Weight [kg]
	D	B1	B2	B3	B4	B5	H1	H2	H3	L1	L2	
TB300-15/4	550	484	367	345	250	440	290	649	1720	1200	600	907
TB300-20/4	550	547	407	345	250	440	290	649	1770	1200	600	1075
TB300-25/4	550	547	407	380	280	480	290	659	1850	1200	600	1230
TB300-30/4	660	645	535	380	280	480	290	699	2000	1200	600	1570
TB300-35/4	660	645	535	380	280	480	290	699	2150	1200	600	1650
TB300-44/4	660	645	535	380	295	480	290	702	2150	1200	600	1790
TB300-55/4	660	645	535	380	295	480	290	702	2150	1200	600	1905

The size of explosion-proof motors has changed, and please contact us for details.

► Appendix I ◀

The mechanical seal adopts the bellows series, and the assembled length conforms to the national standards. For the choice of mechanical seal material under different working conditions:

Pump model	Applicable conditions	Material code	<div><div>Schematic diagram of machine seal structure</div></div>
TB series	0°C ~ 90°C conventional water, PH = 5 ~ 9	*SKFC	
	0°C ~ 90°C, containing solid particles or other impurities	SSFC	
	90°C ~ 120°C boiler water supply	SSFC	
	90°C ~ 120°C, containing solid particles or other impurities	WWFC	

Note: * indicates standard configuration, other configurations need to be customized.

Mechanical seal material code

Locations (a) through (d) represent four pieces of information about the mechanical seal, respectively.

Example	(a)	(b)	(c)	(d)
Material: Moving ring				
Material: Static ring				
Material: Auxiliary seal				
Material: Structural part				

The following table explains the above codes (a), (b), (c) and (d).

Position	Model	Material description
(a) and (b)	A	Hot pressing graphite
	K	Impregnated resin sintered graphite
	W	Tungsten carbide
	S	Pressureless sintered silicon carbide
	A	Silicon carbide
Position	Model	Material description
(c)	P	Nitrile rubber
	F	Fluororubber
	E	Ethylene propylene rubber
Position	Model	Material description
(d)	C	06Cr19Ni10
	T	Chrome-faced manganese steel
	G	0Cr18Ni12Mo2Ti