

Company Profile



Hangzhou Nanfang Special Pump Industry Co., Ltd. is specialized in manufacture of stainless steel multistage pumps, integrating scientific research, production and marketing. Since its establishment ten years ago, the company has devoted considerable efforts to make innovation of technology and management, and has successfully developed various kinds of pumps which are applicable to industrial and mining enterprises, municipal water supply, farm irrigation, petrochemical engineering, domestic water and fire water supply of high buildings, industrial water treatment, water purification, pharmaceutical industry, boiler, air-conditioning system etc. The main performances of CDL series stainless steel multistage vertical pump, TD in-line circulation pump, SJ series stainless steel multistage deep-well submersible pump, CDLK, CDLKF immersion type multi-stage centrifugal pump, CHL/CHLK/CHLF series stainless steel multistage horizontal pumps and QY series stainless steel pump conveying mixed gas and liquid, ZS series stainless steel horizontal single-stage centrifugal pump, MS series light stainless steel horizontal single-stage centrifugal pump, have fully reached international advanced level.

Besides designing pumps with advanced tools such as three-dimensional CAD and CFD software, the company boasts a complete set of precision manufacturing and inspection equipment. With perfect quality control system, the company has passed ISO9001 Quality System Certification, ISO14001 Environment Management System Certificate, and obtained CE Marking also. The company sell products well not only at home, but also in foreign countries, Europe, America, Southeastern Asia etc. gaining popularity due to their excellent quality. good credit standing and considerate after-sales service.

The company has established a wide sales and service network which has representative offices and service centers. Offices and service centers are set in all large and medium-scale cities, aiming to providing timely and satisfactory service for customers.

Satisfying customers will be eternal pursuit of the company. Looking forward to the future, the company will further keep up its fine tradition and persist in its business principle of "quality first, credit first and clients first" to offer customers products of high quality and more considerate services.

Nanfang pump, an international brand worthy of your trust!

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Introduction

The type TD pumps are single stage in-line centrifugal pumps, equipped with standard motor and mechanical seal. Comparing with other pumps in similar structure, these pumps are less accessible to the impurity in the liquid.

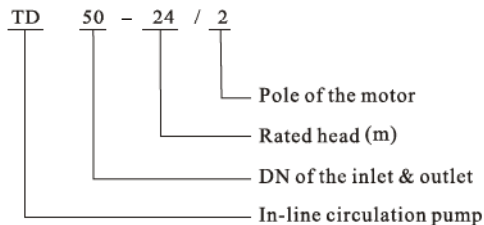
Curves

Following is some explanation for the curve:

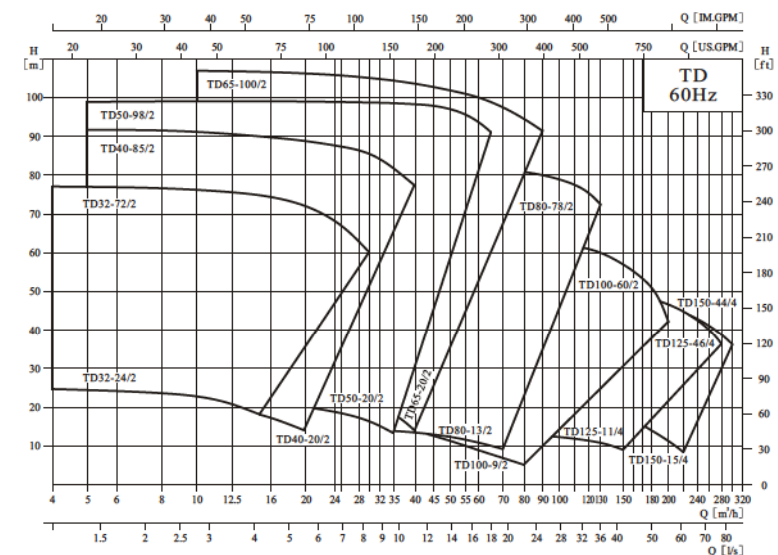
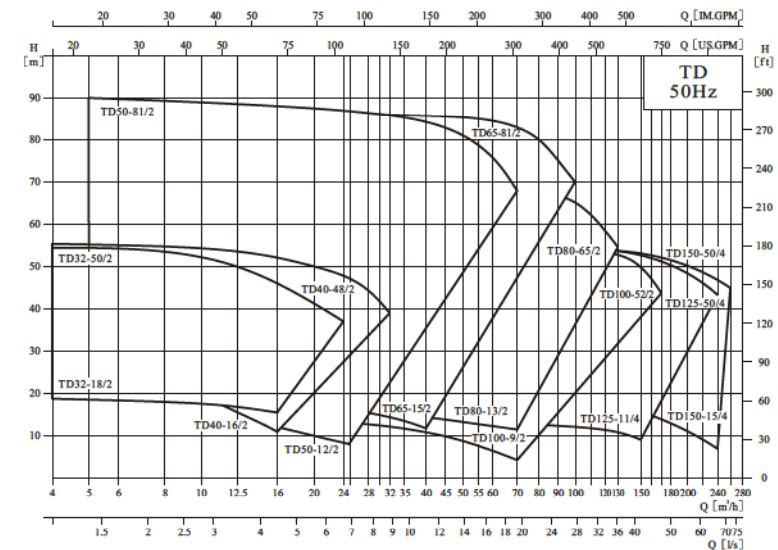
- 1、Curve tolerance is in conformity with ISO9906 Annex A;
- 2、All curves are based on the measured value of motor 3×380V, 50Hz: under the constant speed of 2900rpm, 1450rpm or 1480rpm; 60Hz: under the constant speed of 3500rpm or 1750rpm;
- 3、The test medium is clear 20°C water without any solid impurity and air.
- 4、Pumps should not work if the flow is beyond the minimum or the maximum flow in the curves.
- 5、The motor performance shall be adjusted if the viscosity or density of medium is different from water.

Definition of Model

TD50-24/2



Performance scope



● Product range

table 1

50Hz

NO.	Model	Q (m³/h)	H (m)	n (r/min)	Standard voltage (V)	
					1×220V	3×380V
					P ₂ (kW)	P ₂ (kW)
1	TD32-18/2	8	18	2900	1.1	1.1
2	TD32-21/2	12.5	21		1.5	1.5
3	TD32-25/2	12.5	25		2.2	2.2
4	TD32-32/2	12.5	32			3
5	TD32-38/2	12.5	38			4
6	TD32-50/2	12.5	50			5.5
7	TD40-16/2	12.5	16		1.1	1.1
8	TD40-20/2	12.5	20		1.5	1.5
9	TD40-18/2	20	18		2.2	2.2
10	TD40-25/2	20	25			3
11	TD40-30/2	25	30			4
12	TD40-36/2	25	36			5.5
13	TD40-48/2	25	48			7.5
14	TD50-12/2	16	12		1.1	1.1
15	TD50-15/2	20	15		1.5	1.5
16	TD50-18/2	25	18		2.2	2.2
17	TD50-24/2	25	24			3
18	TD50-28/2	30	28			4
19	TD50-35/2	30	35			5.5
20	TD50-40/2	35	40			7.5
21	TD50-50/2	40	50			11
22	TD50-60/2	50	60			15
23	TD50-70/2	50	70			18.5
24	TD50-81/2	50	81			22
25	TD65-15/2	30	15		2.2	2.2
26	TD65-18/2	35	18			3
27	TD65-22/2	40	22			4
28	TD65-30/2	40	30			5.5
29	TD65-34/2	50	34			7.5
30	TD65-40/2	55	40			11
31	TD65-50/2	50	50			15
32	TD65-60/2	60	60			18.5
33	TD65-66/2	60	66			22
34	TD65-81/2	70	81			30

● Product range

table 1 (continued)

50Hz

NO.	Model	Q (m³/h)	H (m)	n (r/min)	Standard voltage (V)	
					1×220V	3×380V
					P ₂ (kW)	P ₂ (kW)
35	TD80-13/2	50	13	2900		3
36	TD80-18/2	50	18			4
37	TD80-20/2	60	20			5.5
38	TD80-26/2	60	26			7.5
39	TD80-30/2	80	30			11
40	TD80-38/2	80	38			15
41	TD80-47/2	80	47			18.5
42	TD80-50/2	100	50			22
43	TD80-65/2	100	65			30
44	TD100-9/2	50	9			2.2
45	TD100-15/2	60	15			4
46	TD100-17/2	80	17			5.5
47	TD100-22/2	80	22			7.5
48	TD100-25/2	100	25			11
49	TD100-32/2	100	32			15
50	TD100-34/2	120	34			18.5
51	TD100-38/2	120	38			22
52	TD100-52/2	130	52			30
53	TD125-11/4	120	11	1450		5.5
54	TD125-14/4	120	14			7.5
55	TD125-20/4	120	20	1480		11
56	TD125-24/4	120	24			15
57	TD125-28/4	140	28			18.5
58	TD125-32/4	150	32			22
59	TD125-38/4	150	38			30
60	TD125-42/4	180	42			37
61	TD125-50/4	180	50			45
62	TD150-15/4	160	15			11
63	TD150-18/4	180	18			15
64	TD150-20/4	200	20			18.5
65	TD150-25/4	200	25			22
66	TD150-33/4	200	33			30
67	TD150-40/4	200	40			37
68	TD150-50/4	200	50			45

● Product range

table 2

60Hz

NO.	Model	Q (m³/h)	H (m)	n (r/min)	Standard voltage (V)	
					1×220V	3×380V
					P ₂ (kW)	P ₂ (kW)
1	TD32-24/2	7	24	3500	1.5	1.5
2	TD32-27/2	10	27		2.2	2.2
3	TD32-30/2	15	30			3
4	TD32-38/2	15	38			4
5	TD32-46/2	15	46			5.5
6	TD32-57/2	20	57			7.5
7	TD32-72/2	20	72			11
8	TD40-20/2	12	20		1.5	1.5
9	TD40-24/2	15	24		2.2	2.2
10	TD40-28/2	15	28			3
11	TD40-32/2	20	32			4
12	TD40-35/2	25	35			5.5
13	TD40-42/2	25	42			7.5
14	TD40-65/2	25	65			11
15	TD40-76/2	25	76			15
16	TD40-85/2	30	85			18.5
17	TD50-20/2	20	20		2.2	2.2
18	TD50-27/2	20	27			3
19	TD50-34/2	20	34			4
20	TD50-40/2	20	40			5.5
21	TD50-42/2	30	42			7.5
22	TD50-51/2	35	51			11
23	TD50-62/2	45	62			15
24	TD50-72/2	45	72			18.5
25	TD50-84/2	45	84			22
26	TD50-98/2	50	98			30
27	TD65-20/2	30	20			3
28	TD65-25/2	30	25			4
29	TD65-32/2	30	32			5.5
30	TD65-38/2	35	38			7.5
31	TD65-46/2	35	46			11
32	TD65-55/2	35	55			15
33	TD65-60/2	50	60			18.5
34	TD65-73/2	50	73			22
35	TD65-85/2	60	85			30
36	TD65-100/2	60	100			37

● Product range

table 2 (continued)

60Hz

NO.	Model	Q (m³/h)	H (m)	n (r/min)	Standard voltage (V)	
					1×220V	3×380V
					P ₂ (kW)	P ₂ (kW)
37	TD80-12/2	50	12	3500		3
38	TD80-17/2	50	17			4
39	TD80-20/2	60	20			5.5
40	TD80-26/2	60	26			7.5
41	TD80-30/2	80	30			11
42	TD80-38/2	80	38			15
43	TD80-47/2	80	47			18.5
44	TD80-50/2	100	50			22
45	TD80-65/2	100	65			30
46	TD80-78/2	100	78			37
47	TD100-11/2	50	11			3
48	TD100-15/2	60	15			4
49	TD100-17/2	80	17			5.5
50	TD100-22/2	80	22			7.5
51	TD100-25/2	100	25			11
52	TD100-32/2	100	32			15
53	TD100-34/2	120	34			18.5
54	TD100-38/2	120	38			22
55	TD100-52/2	130	52			30
56	TD100-60/2	130	60			37
57	TD125-11/4	120	11	1750		5.5
58	TD125-14/4	120	14			7.5
59	TD125-20/4	120	20			11
60	TD125-24/4	120	24			15
61	TD125-28/4	140	28			18.5
62	TD125-32/4	150	32			22
63	TD125-38/4	150	38			30
64	TD125-40/4	180	40			37
65	TD125-46/4	180	46			45
66	TD150-15/4	160	15			11
67	TD150-18/4	180	18			15
68	TD150-20/4	200	20			18.5
69	TD150-24/4	200	24			22
70	TD150-32/4	200	32			30
71	TD150-36/4	200	36			37
72	TD150-44/4	200	44			45

● Minimum inlet pressure NPSH

To avoid the cavitations, and lessen the libration and noise, you are suggested to adopt NPSH in table 3 or 4 to make sure that the pumps are under optimal operation condition. The data in the sheet are relative pressure bar, which can be read on manometer at the inlet side of the pumps.

The following formula can be used for calculation of minimum inlet pressure:

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

H —Maximum suction head (m)

P_b —Atmosphere pressure (bar)

In a closed system, P_b means system pressure(bar)

NPSH —Net positive suction head (m)

It can be read from the point of Max. flow rate shown on NPSH curve.

H_f —Pipeline loss at the inlet (m)

It is in accordance with pipeline possible Max. flow.

H_v —Steam pressure (m)

It depends on liquid temperature and steam pressure value.

H_s —Safety margin (m)

Minimum 0.5m delivery head.

If the calculated result H is negative, the pump may run under the Max. suction head H . In case the calculated result H is negative, a delivery head of Min. inlet pressure is necessary.

Note: Normally, the above calculation will not be done. H is calculated in the following conditions:

- 1、The liquid temperature is comparatively higher;
- 2、Liquid flow exceeds rated value;
- 3、Suction head is comparatively large or inlet pipeline long;
- 4、System pressure is too low;
- 5、Bad inlet condition.

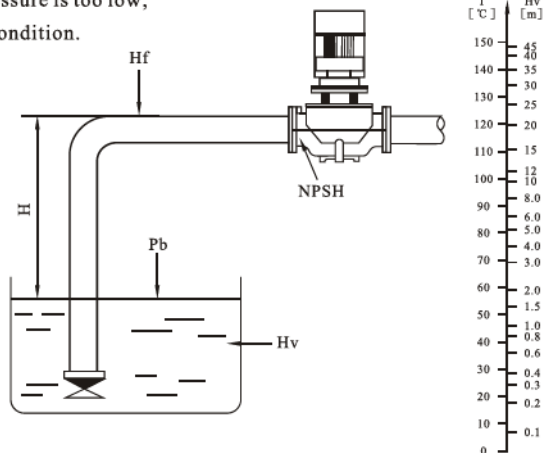


table 3

50Hz

NO.	Model	Min.inlet pressure (bar) /NPSH			
		20℃	60℃	90℃	110℃
1	TD32-18/2	0.1	0.3	0.8	1.6
2	TD32-21/2	0.1	0.3	0.8	1.6
3	TD32-25/2	0.1	0.3	0.8	1.6
4	TD32-32/2	0.3	0.5	1	1.8
5	TD32-38/2	0.3	0.5	1	1.8
6	TD32-50/2	0.7	0.9	1.4	2.2
7	TD40-16/2	0.1	0.3	0.8	1.6
8	TD40-20/2	0.1	0.3	0.8	1.6
9	TD40-18/2	0.1	0.3	0.8	1.6
10	TD40-25/2	0.1	0.3	0.8	1.6
11	TD40-30/2	0.1	0.3	0.8	1.6
12	TD40-36/2	0.1	0.3	0.8	1.6
13	TD40-48/2	0.1	0.3	0.8	1.6
14	TD50-12/2	0.1	0.3	0.8	1.6
15	TD50-15/2	0.1	0.3	0.8	1.6
16	TD50-18/2	0.1	0.3	0.8	1.6
17	TD50-24/2	0.1	0.3	0.8	1.6
18	TD50-28/2	0.1	0.3	0.8	1.6
19	TD50-35/2	0.1	0.3	0.8	1.6
20	TD50-40/2	0.1	0.3	0.8	1.6
21	TD50-50/2	0.1	0.3	0.8	1.6
22	TD50-60/2	0.3	0.5	1	1.8
23	TD50-70/2	0.4	0.6	1.1	1.9
24	TD50-81/2	0.4	0.6	1.1	1.9
25	TD65-15/2	0.1	0.3	0.8	1.6
26	TD65-18/2	0.1	0.3	0.8	1.6
27	TD65-22/2	0.1	0.3	0.8	1.6
28	TD65-30/2	0.1	0.3	0.8	1.6
29	TD65-34/2	0.1	0.3	0.8	1.6
30	TD65-40/2	0.1	0.3	0.8	1.6
31	TD65-50/2	0.1	0.3	0.8	1.6
32	TD65-60/2	0.1	0.3	0.8	1.6
33	TD65-66/2	0.1	0.3	0.8	1.6
34	TD65-81/2	0.1	0.3	0.8	1.6

table 3 (continued)

50Hz

NO.	Model	Min.inlet pressure (bar) /NPSH			
		20℃	60℃	90℃	110℃
35	TD80-13/2	0.1	0.3	0.8	1.6
36	TD80-18/2	0.1	0.3	0.8	1.6
37	TD80-20/2	0.1	0.3	0.8	1.6
38	TD80-26/2	0.1	0.3	0.8	1.6
39	TD80-30/2	0.1	0.3	0.8	1.6
40	TD80-38/2	0.1	0.3	0.8	1.6
41	TD80-47/2	0.1	0.3	0.8	1.6
42	TD80-50/2	0.4	0.6	1.1	1.9
43	TD80-65/2	0.4	0.6	1.1	1.9
44	TD100-9/2	0.1	0.3	0.8	1.6
45	TD100-15/2	0.1	0.3	0.8	1.6
46	TD100-17/2	0.1	0.3	0.8	1.6
47	TD100-22/2	0.1	0.3	0.8	1.6
48	TD100-25/2	0.1	0.3	0.8	1.6
49	TD100-32/2	0.1	0.3	0.8	1.6
50	TD100-34/2	0.2	0.4	0.9	1.7
51	TD100-38/2	0.3	0.5	1	1.8
52	TD100-52/2	0.3	0.5	1	1.8
53	TD125-11/4	0.1	0.3	0.8	1.6
54	TD125-14/4	0.1	0.3	0.8	1.6
55	TD125-20/4	0.1	0.3	0.8	1.6
56	TD125-24/4	0.1	0.3	0.8	1.6
57	TD125-28/4	0.1	0.3	0.8	1.6
58	TD125-32/4	0.1	0.3	0.8	1.6
59	TD125-38/4	0.1	0.3	0.8	1.6
60	TD125-42/4	0.2	0.4	0.9	1.7
61	TD125-50/4	0.2	0.4	0.9	1.7
62	TD150-15/4	0.3	0.5	1	1.8
63	TD150-18/4	0.3	0.5	1	1.8
64	TD150-20/4	0.3	0.5	1	1.8
65	TD150-25/4	0.3	0.5	1	1.8
66	TD150-33/4	0.3	0.5	1	1.8
67	TD150-40/4	0.3	0.5	1	1.8
68	TD150-50/4	0.3	0.5	1	1.8

table 4

60Hz

NO.	Model	Min.inlet pressure (bar) /NPSH			
		20℃	60℃	90℃	110℃
1	TD32-24/2	0.1	0.3	0.8	1.6
2	TD32-27/2	0.1	0.3	0.8	1.6
3	TD32-30/2	0.1	0.3	0.8	1.6
4	TD32-38/2	0.4	0.6	1.1	1.9
5	TD32-46/2	0.4	0.6	1.1	1.9
6	TD32-57/2	0.8	1	1.5	2.3
7	TD32-72/2	0.8	1	1.5	2.3
8	TD40-20/2	0.1	0.3	0.8	1.6
9	TD40-24/2	0.1	0.3	0.8	1.6
10	TD40-28/2	0.1	0.3	0.8	1.6
11	TD40-32/2	0.1	0.3	0.8	1.6
12	TD40-35/2	0.1	0.3	0.8	1.6
13	TD40-42/2	0.1	0.3	0.8	1.6
14	TD40-65/2	0.1	0.3	0.8	1.6
15	TD40-76/2	0.3	0.5	1	1.8
16	TD40-85/2	0.3	0.5	1	1.8
17	TD50-20/2	0.1	0.3	0.8	1.6
18	TD50-27/2	0.1	0.3	0.8	1.6
19	TD50-34/2	0.1	0.3	0.8	1.6
20	TD50-40/2	0.1	0.3	0.8	1.6
21	TD50-42/2	0.1	0.3	0.8	1.6
22	TD50-51/2	0.1	0.3	0.8	1.6
23	TD50-62/2	0.3	0.5	1	1.8
24	TD50-72/2	0.3	0.5	1	1.8
25	TD50-84/2	0.3	0.5	1	1.8
26	TD50-98/2	0.6	0.8	1.3	2.1
27	TD65-20/2	0.1	0.3	0.8	1.6
28	TD65-25/2	0.1	0.3	0.8	1.6
29	TD65-32/2	0.1	0.3	0.8	1.6
30	TD65-38/2	0.1	0.3	0.8	1.6
31	TD65-46/2	0.1	0.3	0.8	1.6
32	TD65-55/2	0.1	0.3	0.8	1.6
33	TD65-60/2	0.1	0.3	0.8	1.6
34	TD65-73/2	0.1	0.3	0.8	1.6
35	TD65-85/2	0.1	0.3	0.8	1.6
36	TD65-100/2	0.1	0.3	0.8	1.6

table 4 (continued)

60Hz

NO.	Model	Min.inlet pressure (bar) /NPSH			
		20℃	60℃	90℃	110℃
37	TD80-12/2	0.1	0.3	0.8	1.6
38	TD80-17/2	0.1	0.3	0.8	1.6
39	TD80-20/2	0.1	0.3	0.8	1.6
40	TD80-26/2	0.1	0.3	0.8	1.6
41	TD80-30/2	0.4	0.6	1.1	1.9
42	TD80-38/2	0.4	0.6	1.1	1.9
43	TD80-47/2	0.4	0.6	1.1	1.9
44	TD80-50/2	0.4	0.6	1.1	1.9
45	TD80-65/2	0.4	0.6	1.1	1.9
46	TD80-78/2	0.4	0.6	1.1	1.9
47	TD100-11/2	0.1	0.3	0.8	1.6
48	TD100-15/2	0.1	0.3	0.8	1.6
49	TD100-17/2	0.1	0.3	0.8	1.6
50	TD100-22/2	0.1	0.3	0.8	1.6
51	TD100-25/2	0.1	0.3	0.8	1.6
52	TD100-32/2	0.1	0.3	0.8	1.6
53	TD100-34/2	0.2	0.4	0.9	1.7
54	TD100-38/2	0.2	0.4	0.9	1.7
55	TD100-52/2	0.3	0.5	1	1.8
56	TD100-60/2	0.3	0.5	1	1.8
57	TD125-11/4	0.1	0.3	0.8	1.6
58	TD125-14/4	0.1	0.3	0.8	1.6
59	TD125-20/4	0.1	0.3	0.8	1.6
60	TD125-24/4	0.1	0.3	0.8	1.6
61	TD125-28/4	0.1	0.3	0.8	1.6
62	TD125-32/4	0.1	0.3	0.8	1.6
63	TD125-38/4	0.1	0.3	0.8	1.6
64	TD125-40/4	0.3	0.5	1	1.8
65	TD125-46/4	0.3	0.5	1	1.8
66	TD150-15/4	0.4	0.6	1.1	1.9
67	TD150-18/4	0.4	0.6	1.1	1.9
68	TD150-20/4	0.4	0.6	1.1	1.9
69	TD150-24/4	0.4	0.6	1.1	1.9
70	TD150-32/4	0.4	0.6	1.1	1.9
71	TD150-36/4	0.4	0.6	1.1	1.9
72	TD150-44/4	0.4	0.6	1.1	1.9

● Application

The pumps are applicable for clean, attenuate, non-corrosive, non-flammable, and nonexplosive liquid which shall not contain any solid grain and fibre that might damage the pump mechanically or chemically. The detailed requirements on the liquid is in Table 5. If the liquid viscosity or density is beyond the required level, the performance curves will descend and energy consumption will be increased.

Liquid temperature:-15℃~110℃

Max. Pressure: Normal type:PN12 bar ; special type: PN 16 bar.

table 5

Liquid		Max. temperature	Liquid requirement	Application
Water	Underground Water	<90℃		TD pumps are applicable for urban water supply, industrial water, cooling system, and cold & hot water for regional heat supply system: 1) main circulation pump 2) mixed circuit pump 3) boiler mixed-flow pump 4) gas-fired freezer pump 5) filter pump 6) constant pressure system pump 7) urban hot water circulation
	Water supply for boiler	<110℃		
	Water supply for regions	<110℃		
	Condensate water	<90℃		
	Soft water	-15℃~110℃		
	Alkaline water		Weak alkaline	
	Sea water		Weak alkaline	
	Cooling or lubricant for mechanical process		Additive and little impurity may impair the shaft seal	
Cooling liquid	Hydro carbon antifreeze	<50℃	Tiny quantity rime may impair the shaft seal	TD pumps can be used in chemical industry, pharmaceutical industry, food processing and so on. 1) liquid feeding 2) system pressure boosting 3) mixed circuit circulation pump
	Alcoholised compound	<50℃ 50%		
	30% brine (NaCl, CaCl ₂ solution)	<50℃	Tiny quantity rime may impair the shaft seal	
Organic solvent	Diesel oil	≤60℃	Inflammable liquid	
	Coal oil	≤60℃		
oxidant	Hydrogen peroxide	≤60℃ 20%		

● Installation requirements

Some detailed requirement of installation is as below, The concrete request is as following:

1、If the system pipeline can support the pumps, pumps with 2.2kW motor power(including 2.2kW) can be hung in line; if the system pipeline cannot support the pumps or the pump motor power is higher than 2.2kW, the pumps must be installed in brackets or base.

2、Pumps with motor power lower than 2.2kW(including 2.2kW) can be installed horizontally or vertically to the pipeline. Pumps with motor power higher than 2.2kW, can only be installed vertically to the pipeline (see 2-A).

3、The pump installation shall not allow the system pipeline tensile force to be transferred to the pump body.

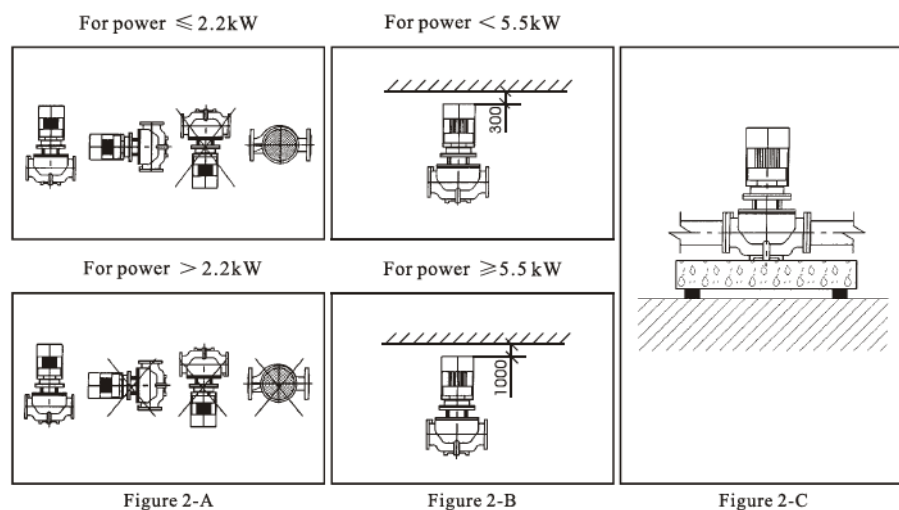
4、The pump should be installed in the environment with sufficient cooling and the cooling air shall not be above 40℃.

5、If the pumps are installed outdoors, there should be covers to protect electric components from water.

6、For the convenience of maintenance, there should be enough space above and below the pumps. Minimum 300mm shall be kept for pumps with motor power lower than 5.5kW, and minimum 1000mm for pumps with motor power higher than 5.5kW (including 5.5kW). (See 2-B)

7、To prevent noises and vibration and ensure the best operation, anti-vibration base shall be used in installation. Generally, cement base with the weight equal or bigger than $1.5 \times$ pump weight shall be adopted. (See 2-C).

8、Pumps with bases or without bases are both available for customers requirements. (See appendix table 6 and 7 for base dimensions).



● Product structure and component material

Motor and pump can be separated, Standard motors and mechanical seals are provided. The motors are entirely close and air cooling type standard motors. Its major dimensions are in conformity with GB standard.

The pump body is equal to a section of pipeline. While in maintenance, blind flange can be used to seal to pump cover which enable the normal operation of pumps.

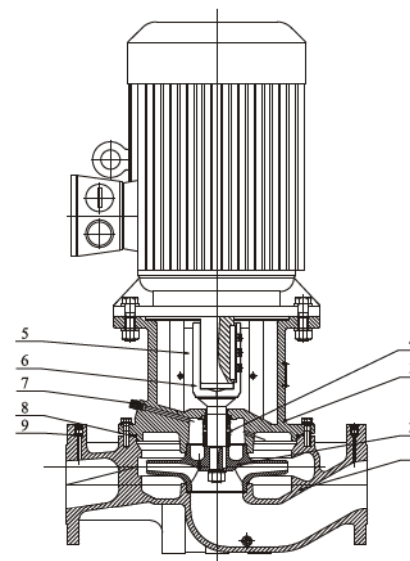
The flange connection dimension are in conformity with the related provisions Pn16 in GB/T 17241.6 or ISO7005-2/DIN 2501.

The inlet and outlet diameters are in conformity with related standard dimensions.

The pump head is to connect motor and the pump. "O" ring or Flat rubber circle is used to seal the pump head and the pump.

See Table 6 for component materials.

● Section drawing



● Material

NO.	Parts	Material
1	Pump body	HT200
2	Impeller	HT200/0Cr18Ni9
3	Pump head	HT200
4	Mechanical seal	Carbon/Silicon Carbide
5	Guard plate	0Cr18Ni9
6	Shaft	2Cr13
7	Air release bolt	0Cr18Ni9
8	Ring	NBR
9	Plug	0Cr18Ni9

Appendix-Base plate

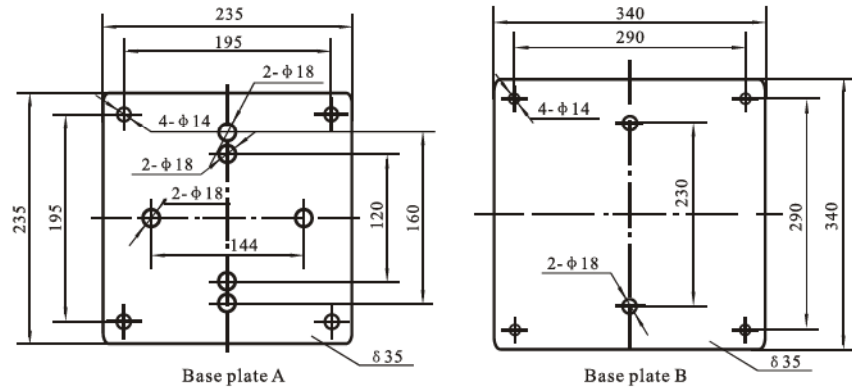


table 6

50Hz

NO.	Product model	Base plate type	NO.	Product model	Base plate type	NO.	Product model	Base plate type
1	TD32-18/2	A	24	TD50-81/2	A	47	TD100-22/2	A
2	TD32-21/2	A	25	TD65-15/2	A	48	TD100-25/2	B
3	TD32-25/2	A	26	TD65-18/2	A	49	TD100-32/2	B
4	TD32-32/2	A	27	TD65-22/2	A	50	TD100-34/2	B
5	TD32-38/2	A	28	TD65-30/2	A	51	TD100-38/2	B
6	TD32-50/2	A	29	TD65-34/2	A	52	TD100-52/2	B
7	TD40-16/2	A	30	TD65-40/2	A	53	TD125-11/4	B
8	TD40-18/2	A	31	TD65-50/2	A	54	TD125-14/4	B
9	TD40-20/2	A	32	TD65-60/2	A	55	TD125-20/4	B
10	TD40-25/2	A	33	TD65-66/2	A	56	TD125-24/4	B
11	TD40-30/2	A	34	TD65-81/2	A	57	TD125-28/4	B
12	TD40-36/2	A	35	TD80-13/2	A	58	TD125-32/4	B
13	TD40-48/2	A	36	TD80-18/2	A	59	TD125-38/4	B
14	TD50-12/2	A	37	TD80-20/2	A	60	TD125-42/4	B
15	TD50-15/2	A	38	TD80-26/2	A	61	TD125-50/4	B
16	TD50-18/2	A	39	TD80-30/2	A	62	TD150-15/4	B
17	TD50-24/2	A	40	TD80-38/2	A	63	TD150-18/4	B
18	TD50-28/2	A	41	TD80-47/2	A	64	TD150-20/4	B
19	TD50-35/2	A	42	TD80-50/2	A	65	TD150-25/4	B
20	TD50-40/2	A	43	TD80-65/2	A	66	TD150-33/4	B
21	TD50-50/2	A	44	TD100-9/2	A	67	TD150-40/4	B
22	TD50-60/2	A	45	TD100-15/2	A	68	TD150-50/4	B
23	TD50-70/2	A	46	TD100-17/2	A			

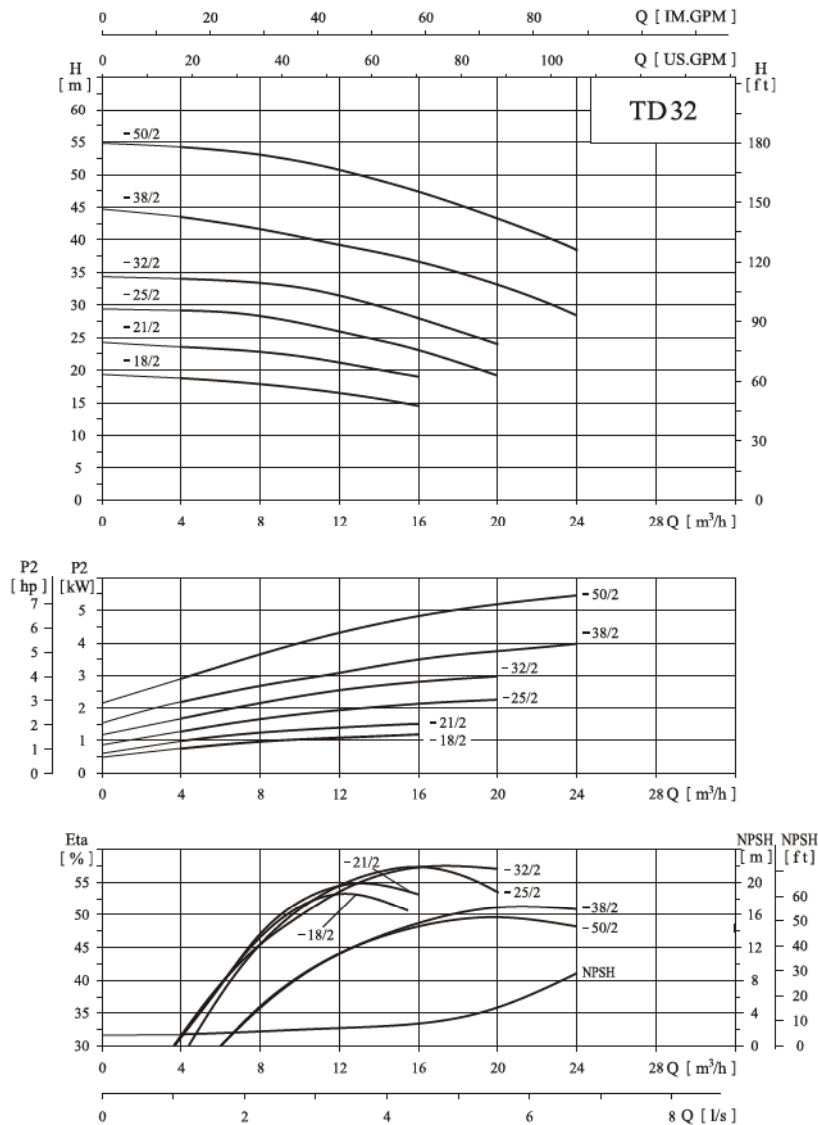
table 7

60Hz

NO.	Product model	Base plate type	NO.	Product model	Base plate type	NO.	Product model	Base plate type
1	TD32-24/2	A	25	TD50-84/2	A	49	TD100-17/2	A
2	TD32-27/2	A	26	TD50-98/2	A	50	TD100-22/2	A
3	TD32-30/2	A	27	TD65-20/2	A	51	TD100-25/2	B
4	TD32-38/2	A	28	TD65-25/2	A	52	TD100-32/2	B
5	TD32-46/2	A	29	TD65-32/2	A	53	TD100-34/2	B
6	TD32-57/2	A	30	TD65-38/2	A	54	TD100-38/2	B
7	TD32-72/2	A	31	TD65-46/2	A	55	TD100-52/2	B
8	TD40-20/2	A	32	TD65-55/2	A	56	TD100-60/2	B
9	TD40-24/2	A	33	TD65-60/2	A	57	TD125-11/4	B
10	TD40-28/2	A	34	TD65-73/2	A	58	TD125-14/4	B
11	TD40-32/2	A	35	TD65-85/2	A	59	TD125-20/4	B
12	TD40-35/2	A	36	TD65-100/2	A	60	TD125-24/4	B
13	TD40-42/2	A	37	TD80-12/2	A	61	TD125-28/4	B
14	TD40-65/2	A	38	TD80-17/2	A	62	TD125-32/4	B
15	TD40-76/2	A	39	TD80-20/2	A	63	TD125-38/4	B
16	TD40-85/2	A	40	TD80-26/2	A	64	TD125-40/4	B
17	TD50-20/2	A	41	TD80-30/2	A	65	TD125-46/4	B
18	TD50-27/2	A	42	TD80-38/2	A	66	TD150-15/4	B
19	TD50-34/2	A	43	TD80-47/2	A	67	TD150-18/4	B
20	TD50-40/2	A	44	TD80-50/2	A	68	TD150-20/4	B
21	TD50-42/2	A	45	TD80-65/2	A	69	TD150-24/4	B
22	TD50-51/2	A	46	TD80-78/2	A	70	TD150-32/4	B
23	TD50-62/2	A	47	TD100-11/2	A	71	TD150-36/4	B
24	TD50-72/2	A	48	TD100-15/2	A	72	TD150-44/4	B

Performance curve

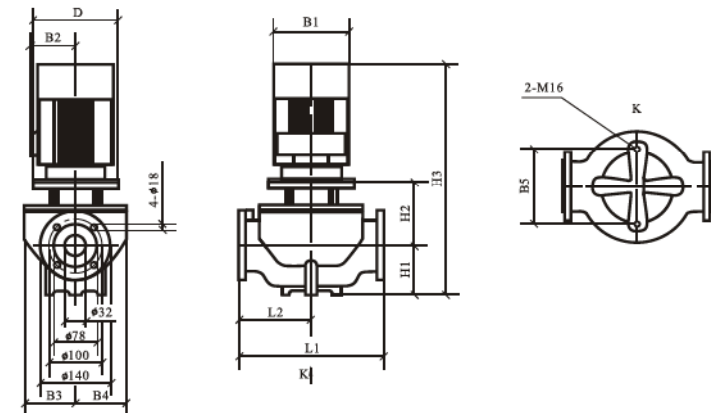
ISO9906 Annex A



Performance table

Model	Power (kW)	Q (m³/h)	4	8	12.5	16	20	24
TD32-18/2	1.1	H (m)	19	18	16	14		
TD32-21/2	1.5		24	23	21	18		
TD32-25/2	2.2		29	28	25	23	19	
TD32-32/2	3		34	33	32	28	24	
TD32-38/2	4		43	41	38	36	33	28
TD32-50/2	5.5		54	53	50	48	44	38

Installation sketch

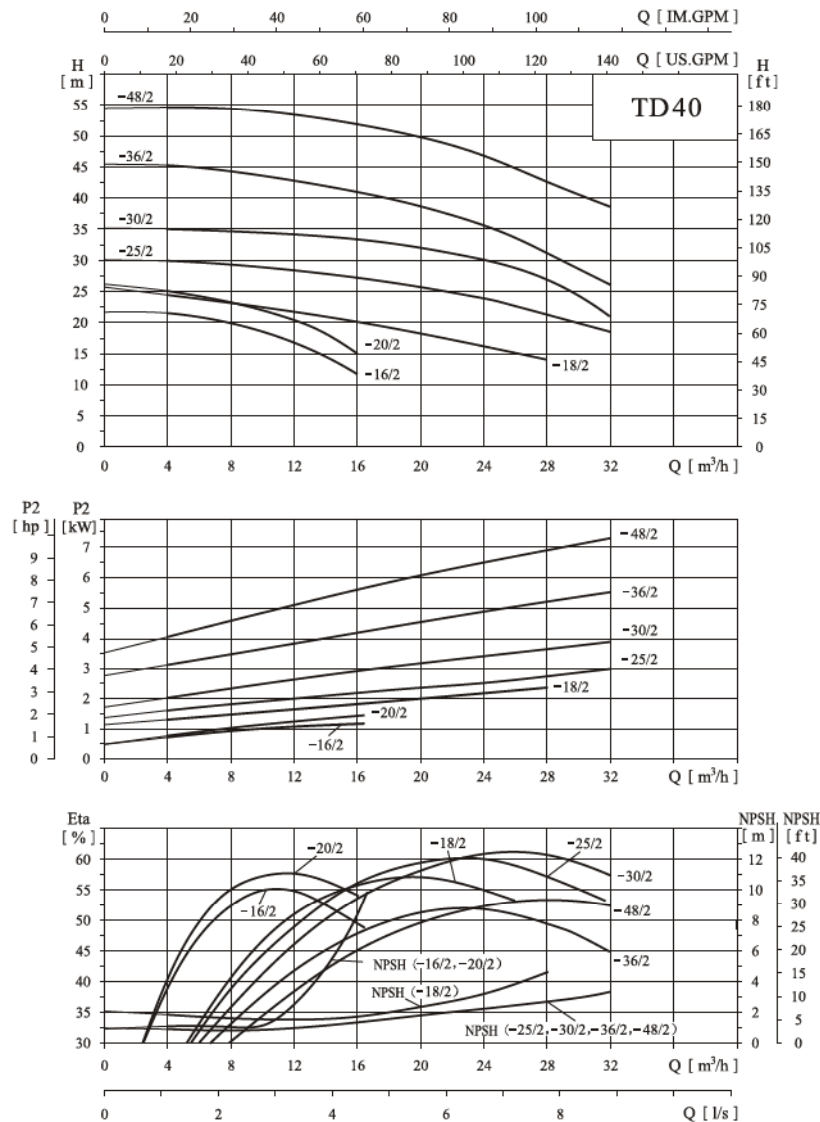


Size and weight

Model	Size (mm)											Weight (kg)
	D	B1	B2	B3	B4	B5	H1	H2	H3	L1	L2	
TD32-18/2	120	170	142	125	117	144	100	166	511	340	170	50
TD32-21/2	140	190	155	125	117	144	100	166	556	340	170	56
TD32-25/2	140	190	155	125	117	144	100	166	556	340	170	59
TD32-32/2	160	197	165	125	117	144	100	185	600	340	170	68
TD32-38/2	160	230	188	144	144	144	100	185	620	440	220	79
TD32-50/2	200	260	208	144	144	144	100	213	743	440	220	104

Performance curve

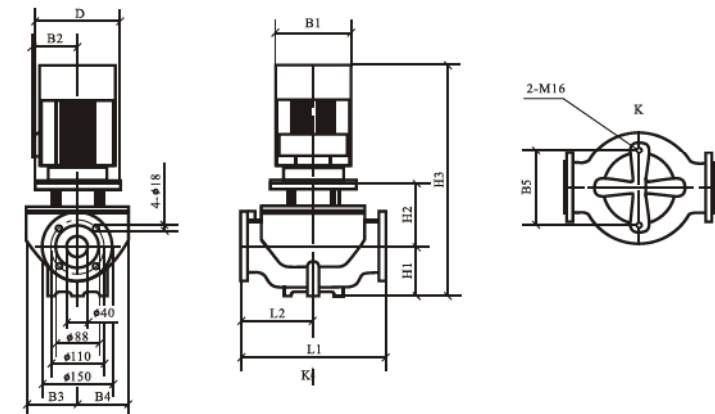
ISO9906 Annex A



Performance table

Model	Power (kW)	Q (m³/h)	4	8	12.5	16	20	25	28	32
TD40-16/2	1.1	H (m)	22	20	16	11				
TD40-20/2	1.5		25	23	20	15				
TD40-18/2	2.2		24	23	21	20	18	17	14	
TD40-25/2	3		30	29	28	27	25	24	21	18
TD40-30/2	4		35	34	33	32	31	30	27	21
TD40-36/2	5.5		45	42	41	40	38	36	30	26
TD40-48/2	7.5		55	54	53	52	50	48	45	39

Installation sketch

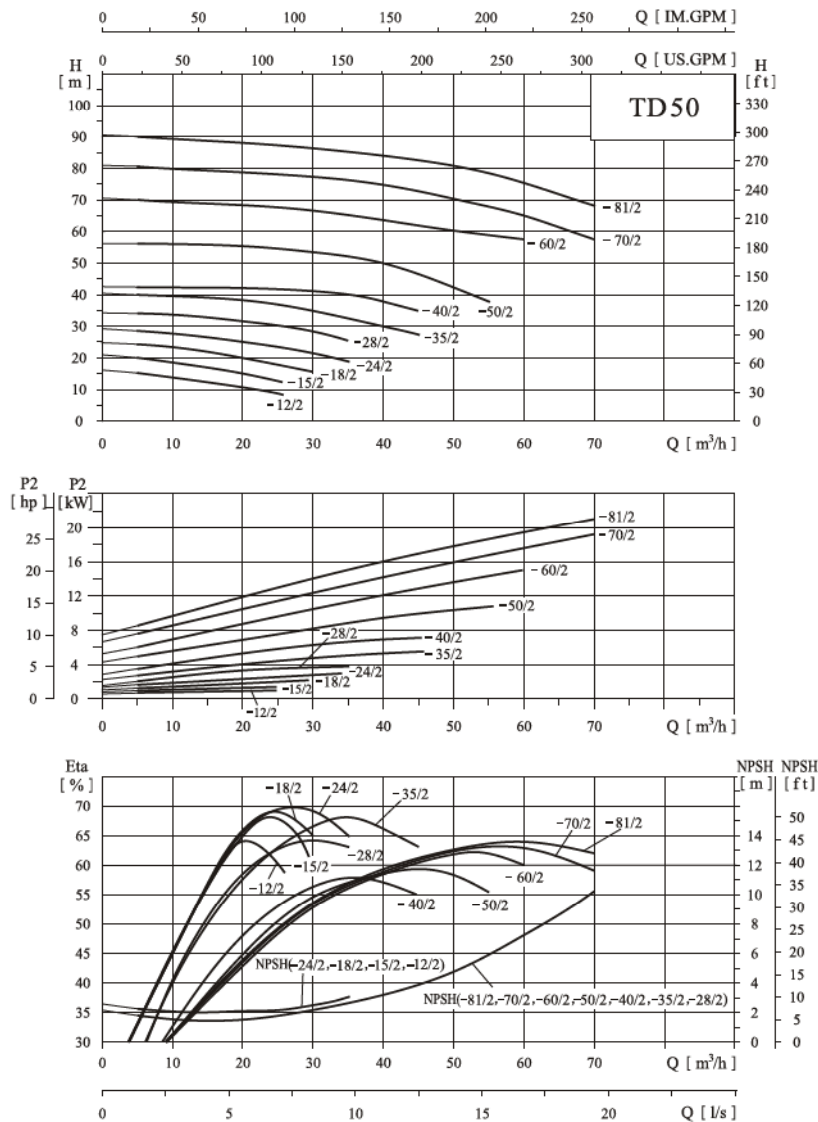


Size and weight

Model	Size (mm)											Weight (kg)
TD40-16/2	D	B1	B2	B3	B4	B5	H1	H2	H3	L1	L2	
TD40-16/2	120	170	142	97	96	120	68	150	463	320	160	40
TD40-20/2	140	190	155	97	96	120	68	160	518	320	160	46
TD40-18/2	140	190	155	110	95	144	100	167	557	340	170	53
TD40-25/2	160	197	165	127	115	144	100	185	600	340	170	70
TD40-30/2	160	230	188	127	115	144	100	185	620	340	170	77
TD40-36/2	200	260	208	138	125	144	110	213	753	440	220	106
TD40-48/2	200	260	208	138	125	144	110	213	755	440	220	110

● Performance curve

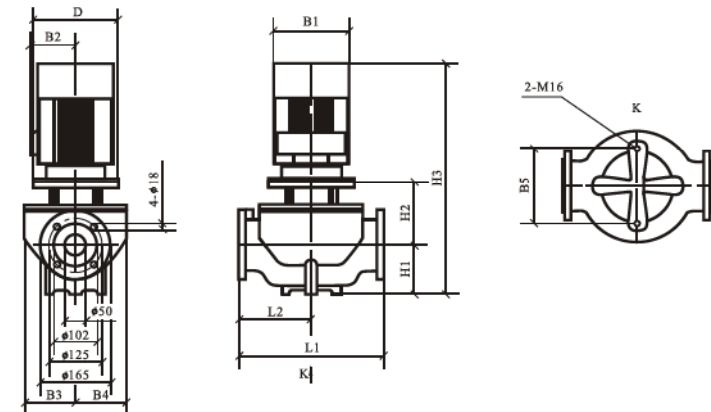
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● Performance table

Model	Power (kW)	Q (m³/h)	5	10	15	16	20	25	30	35	40	45	50	55	60	70
TD50-12/2	1.1	H (m)	15	13	12.5	12	10	8								
TD50-15/2	1.5		20	18	16		15	13								
TD50-18/2	2.2		24	23	22		20	18	15							
TD50-24/2	3		28	27	26		25	24	22	18						
TD50-28/2	4		35	33	32		31	30	28	24						
TD50-35/2	5.5		40	39	38		37	36	35	32	30	26				
TD50-40/2	7.5		43		42			41		40	37	35				
TD50-50/2	11		56	55			54		52		50		41	38		
TD50-60/2	15		70	69			68		66		64		60		58	
TD50-70/2	18.5		81	80			79		77		75		70		65	58
TD50-81/2	22		90	89			88		86		83		81		75	68

● Installation sketch

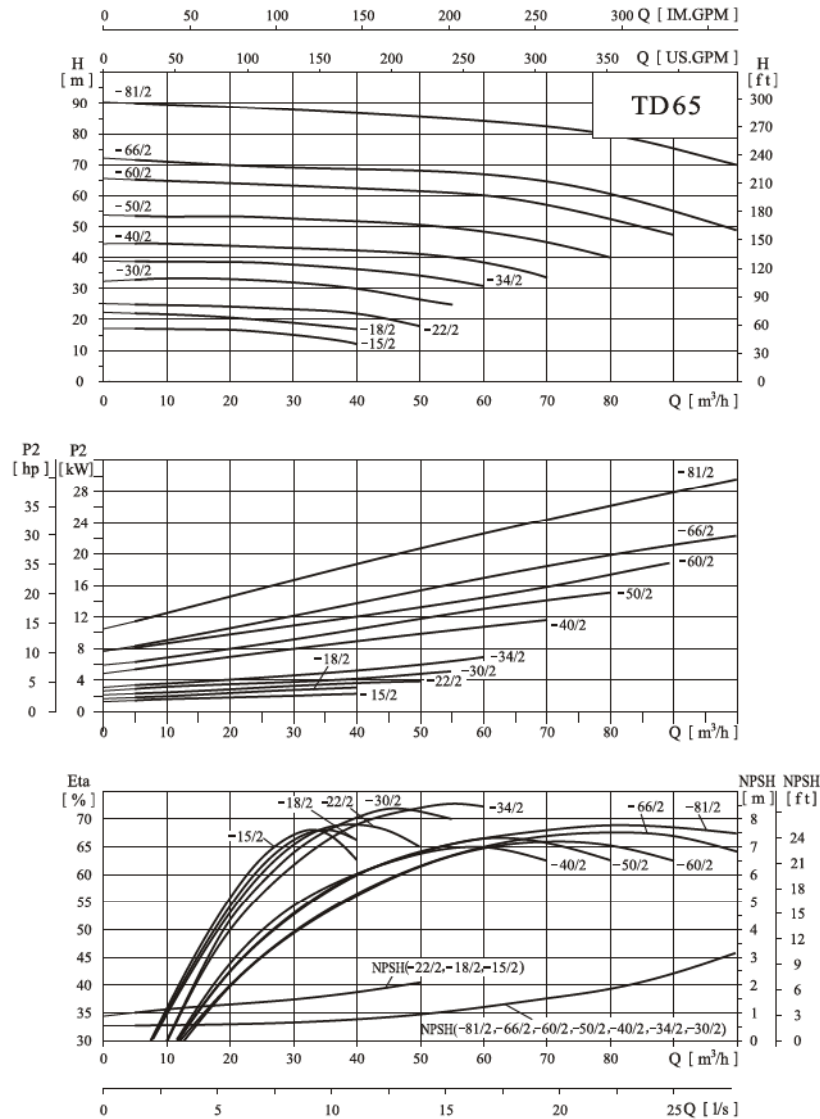


● Size and weight

Model	Size (mm)											Weight (kg)
	D	B1	B2	B3	B4	B5	H1	H2	H3	L1	L2	
TD50-12/2	120	170	142	117	115	144	115	153	513	340	170	56
TD50-15/2	140	190	155	117	115	144	115	153	558	340	170	62
TD50-18/2	140	190	155	117	115	144	115	153	558	340	170	65
TD50-24/2	160	197	165	117	115	144	115	172	602	340	170	74
TD50-28/2	160	230	188	129	115	144	115	175	625	340	170	79
TD50-35/2	200	260	208	129	115	144	115	197	742	340	170	103
TD50-40/2	200	260	208	171	158	144	115	187	732	440	220	118
TD50-50/2	350	330	255	171	158	144	115	250	855	440	220	181
TD50-60/2	350	330	255	171	158	144	115	250	855	440	220	191
TD50-70/2	350	330	255	171	158	144	115	250	915	440	220	209
TD50-81/2	350	360	285	171	158	144	115	250	955	440	220	245

● Performance curve

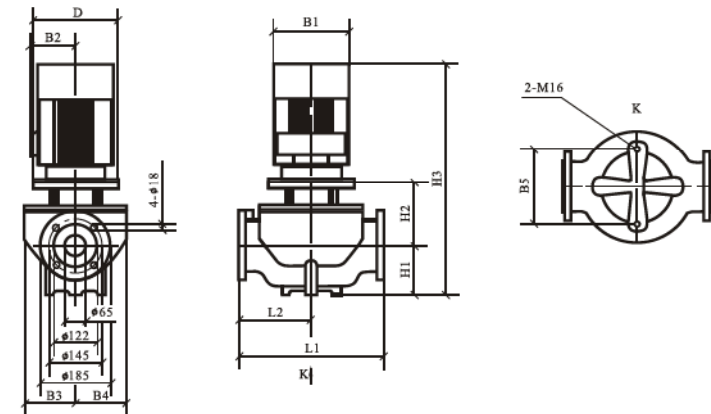
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● Performance table

Model	Power (kW)	Q (m³/h)	5	10	15	20	25	30	35	40	45	50	55	60	70	80	90	100
TD65-15/2	2.2	H (m)	18.5	18	17.5	17	16	15	13	12								
TD65-18/2	3		22	21.5	21	20.5	20	19	18	16								
TD65-22/2	4		25.5	25	24.5	24	23.5	23	22.5	22	19	17						
TD65-30/2	5.5		33	32.5		32		31		30		26	25					
TD65-34/2	7.5		39	38.5		38		37		36		34		31				
TD65-40/2	11		44	43.5		43		42		41.5		40.5	40	38	33			
TD65-50/2	15		54	53.5		53		52		51		50		48	45	40		
TD65-60/2	18.5		65	64.5		64		63		62		61		60	57	52	47	
TD65-66/2	22		71	70.5		70		69.5		68		67		66	65	59	55	49
TD65-81/2	30		90	89		88		86		85		83		82	81	80	75	70

● Installation sketch

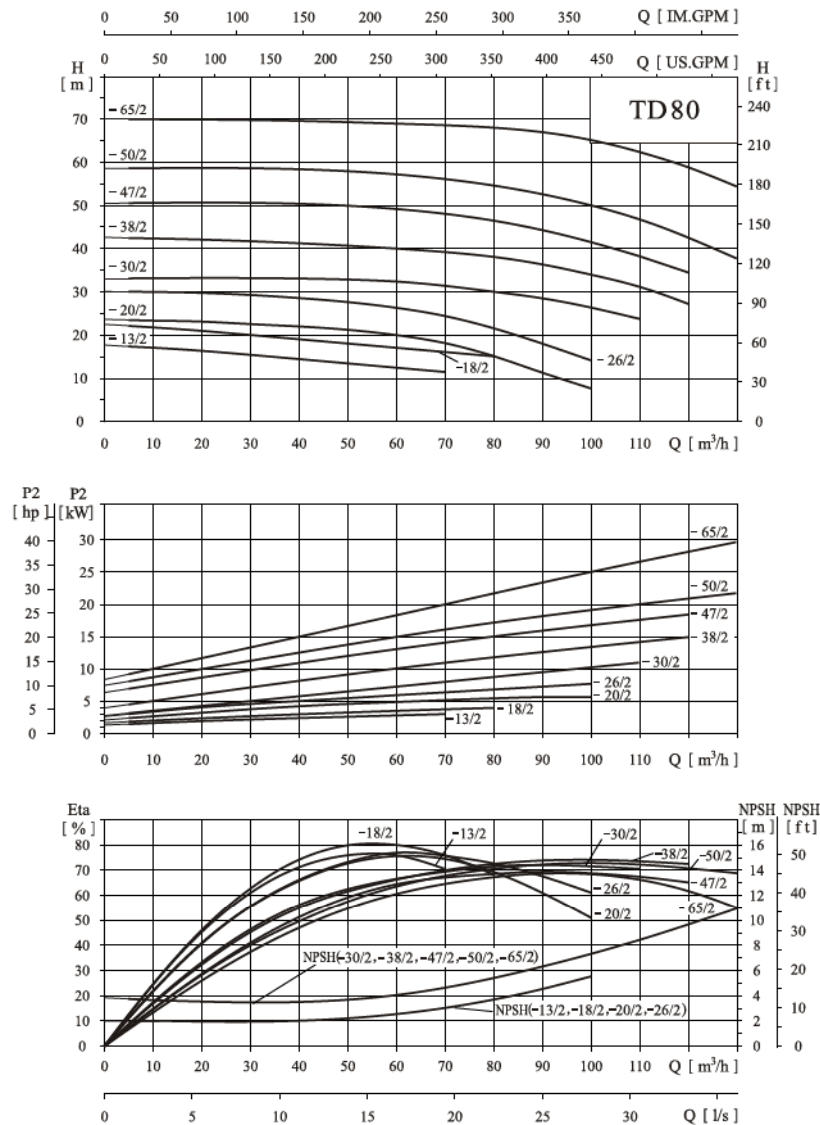


● Size and weight

Model	Size (mm)											Weight (kg)
	D	B1	B2	B3	B4	B5	H1	H2	H3	L1	L2	
TD65-15/2	140	190	155	142	124	144	105	172	567	360	180	65
TD65-18/2	160	197	165	142	124	144	105	191	611	360	180	74
TD65-22/2	160	230	188	142	124	144	105	191	631	360	180	81
TD65-30/2	200	260	208	142	124	144	105	213	748	360	180	105
TD65-34/2	200	260	208	142	124	144	105	213	748	360	180	108
TD65-40/2	350	330	255	179	167	144	125	262	877	475	238	183
TD65-50/2	350	330	255	179	167	144	125	262	877	475	238	193
TD65-60/2	350	330	255	179	167	144	125	262	937	475	238	210
TD65-66/2	350	330	255	179	167	144	125	262	977	475	238	248
TD65-81/2	400	400	310	179	167	144	125	262	1047	475	238	309

Performance curve

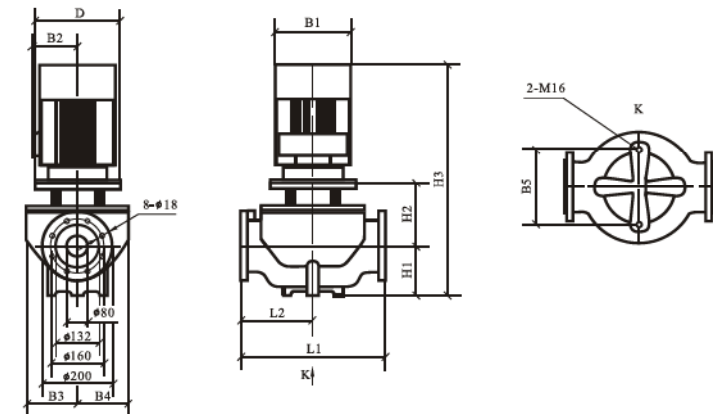
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Performance table

Model	Power (kW)	Q (m³/h)	5	10	20	30	40	50	60	70	80	90	100	110	120	130
TD80-13/2	3	H (m)	17.5	17	16	15	14	13	12	11						
TD80-18/2	4		22.5	21.5	21	20	19	18	17	16	15					
TD80-20/2	5.5		23.6	23.5	23.5	22.5	22	21.6	20	18	15	11	8			
TD80-26/2	7.5		30	30	29.8	29.5	29	27.8	26	24	21.7	18	14			
TD80-30/2	11		33.5	33.4	33.3	33.2	33.1	32.7	32	31.2	30	29	28	24		
TD80-38/2	15		42.5	42.2	42	41.8	41.5	41	40	39	38	36	34	31	27.8	
TD80-47/2	18.5		50.5		50.3		50.2		49.5		47		41.3	38.4	34.2	
TD80-50/2	22		58.5		58.2		57.5		56.4		54		50	46.6	43.1	38.4
TD80-65/2	30		70		69.8		69.5		69		67.2		65	61.4	58.8	53.7

Installation sketch

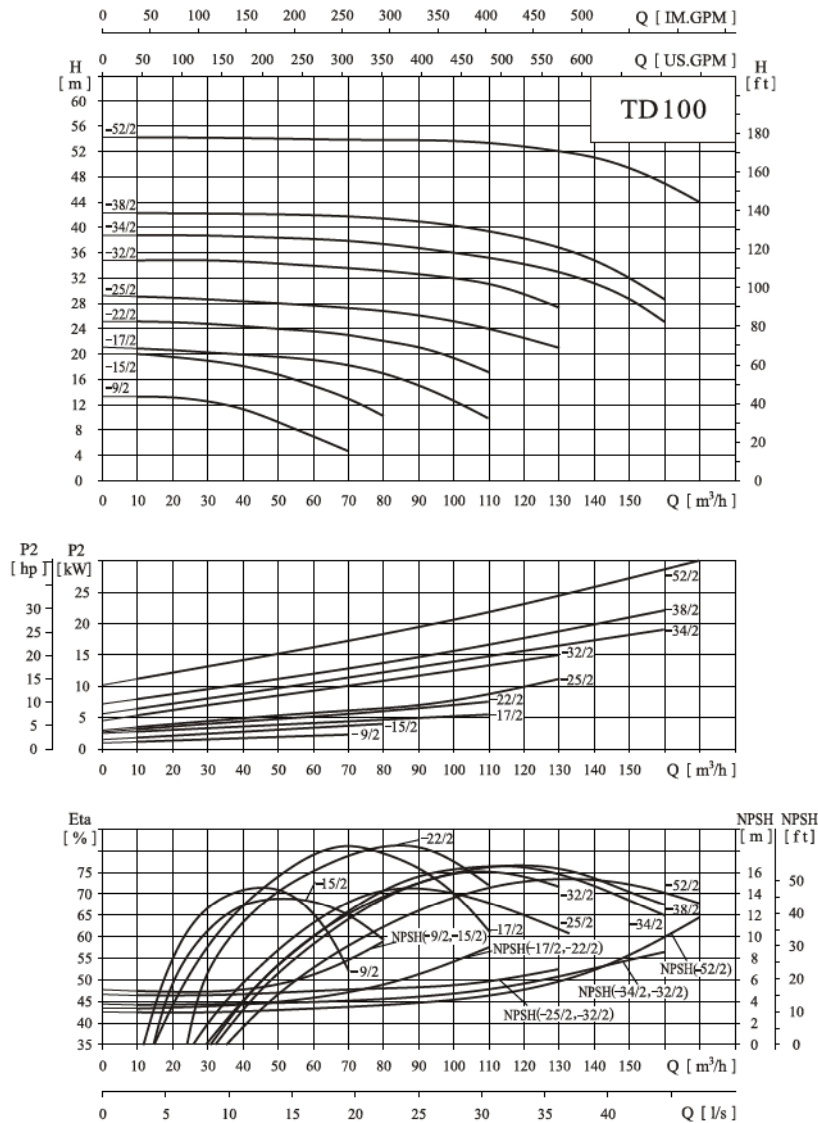


Size and weight

Model	Size (mm)											Weight (kg)
TD80-13/2	D	B1	B2	B3	B4	B5	H1	H2	H3	L1	L2	
TD80-18/2	160	197	165	142	124	160	97	219	631	450	225	84
TD80-20/2	160	230	188	142	124	160	97	219	651	450	225	91
TD80-26/2	200	260	208	142	124	160	97	241	768	450	225	114
TD80-30/2	200	260	208	142	124	160	97	241	768	450	225	117
TD80-38/2	350	330	255	182	163	144	115	279	884	500	250	194
TD80-47/2	350	330	255	182	163	144	115	279	884	500	250	204
TD80-50/2	350	330	255	182	163	144	115	279	944	500	250	222
TD80-65/2	350	330	255	182	163	144	115	279	984	500	250	258
TD80-65/2	400	400	310	182	163	144	115	279	1054	500	250	319

Performance curve

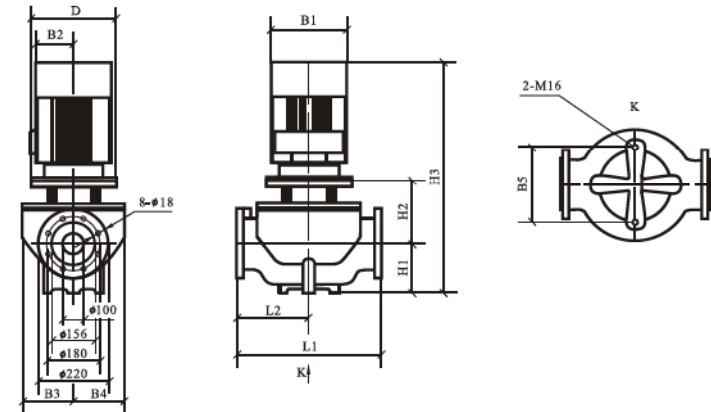
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Performance table

Model	Power (kW)	Q (m³/h)	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170
TD100-9/2	2.2	H (m)	13	13	12.5	11.5	9	6.5	4.5										
TD100-15/2	4		20	19.5	18.5	18	17	15	13	10.5									
TD100-17/2	5.5		21	21	20.5	19.5	19	18.5	18	17	15	12.5	10						
TD100-22/2	7.5		25	25	24.5	24.5	24	23.5	23	22	21	19.5	17						
TD100-25/2	11		29	29	28.5	28.5	28	27.5	27	26.5	26	25	24	22.5	20.5				
TD100-32/2	15		35	35	35	34.5	34.5	34	33.5	33	32.5	32	31	30	27.5				
TD100-34/2	18.5		39	39	39	38.5	38.5	38	38	37.5	37	36	35	34	33	31	29	25	
TD100-38/2	22		42.5	42.5	42.5	42	42	42	41.5	41.5	41	40.5	39.5	38	36.5	35	32.5	28.5	
TD100-52/2	30		54.5	54.5	54.5	54.5	54	54	54	53.5	53.5	53	53	52.5	52	51	49.5	47	44

Installation sketch

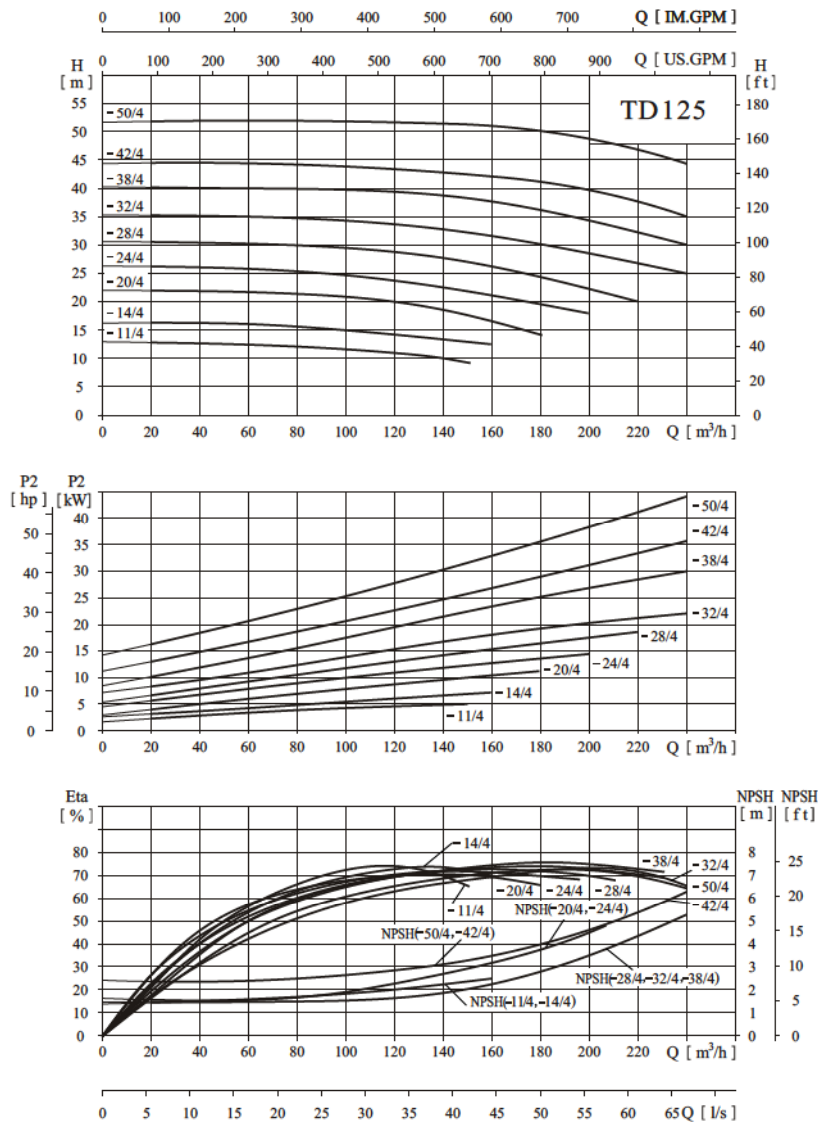


Size and weight

Model	Size (mm)											Weight (kg)
	D	B1	B2	B3	B4	B5	H1	H2	H3	L1	L2	
TD100-9/2	140	175	155	134	101	160	105	178	573	450	225	65
TD100-15/2	160	215	190	134	101	160	105	190	630	450	225	83
TD100-17/2	200	260	205	150	117	144	140	215	785	500	250	119
TD100-22/2	200	260	205	150	117	144	140	215	785	500	250	122
TD100-25/2	350	350	245	181	152	230	140	270	900	550	275	197
TD100-32/2	350	350	265	181	152	230	140	270	900	550	275	207
TD100-34/2	350	350	265	181	152	230	140	270	960	550	275	224
TD100-38/2	350	350	280	181	152	230	140	270	1000	550	275	260
TD100-52/2	400	400	305	181	152	230	140	270	1070	550	275	318

Performance curve

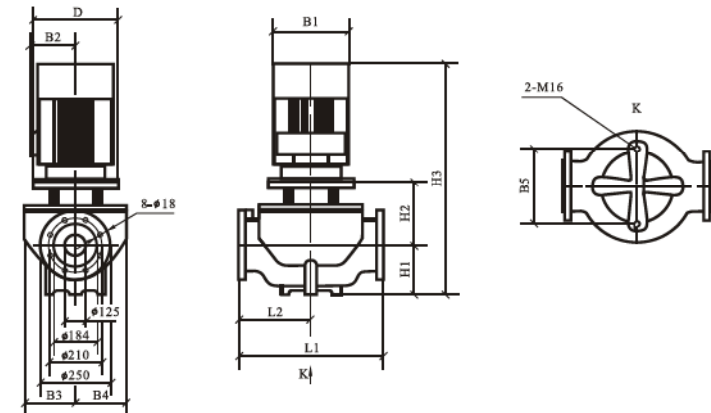
ISO9906 Annex A



Performance table

Model	Power (kW)	Q (m³/h)	20	40	60	80	100	120	140	150	160	180	200	220	240
TD125-11/4	5.5	H (m)	12.9	12.7	12.6	12.2	11.6	11	10	9					
TD125-14/4	7.5		16.2	16.1	16	15.9	15.3	14	13.8		12.5				
TD125-20/4	11		21.8	21.4	21.2	21	20.6	20	18		16.4	14.5			
TD125-24/4	15		26.2	25.9	25.7	25.5	24.8	24	22.9		21.2	19.8	17.8		
TD125-28/4	18.5		30.4	30.2	30.1	29.9	29.4	28.6	28		26.6	24.5	22.5	20	
TD125-32/4	22		35.2	34.9	34.8	34.5	34.2	33.5	32.7	32	31.3	30.1	27.8	25.6	25
TD125-38/4	30		40.2	40.1	40	39.9	39.8	39.5	38.6	38	37.8	36.2	33.8	31.8	30
TD125-42/4	37		43.6	43.8	43.8	43.6	43.4	43.1	42.8		42.4	42	41.2	39.8	37.5
TD125-50/4	45		52.5	52.6	52.7	52.8	52.5	52.1	51.5		50.8	50	49.1	47.7	46

Installation sketch

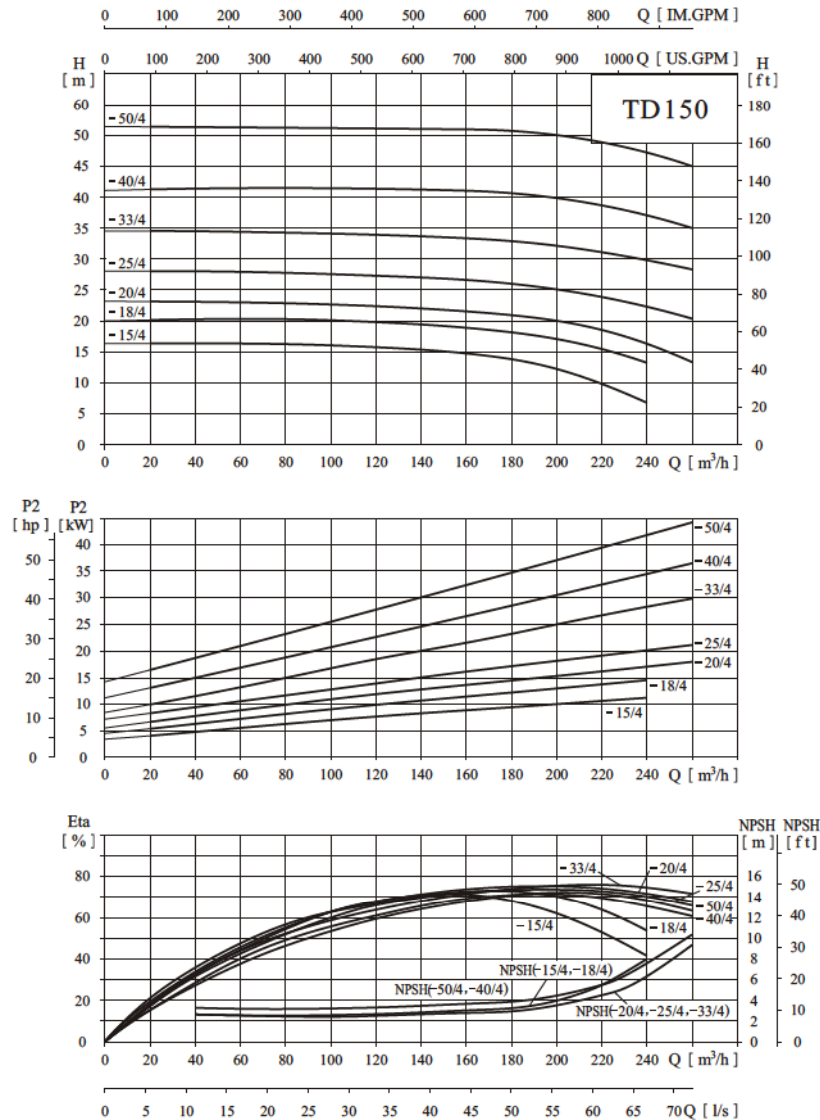


Size and weight

Model	Size (mm)											Weight (kg)
	D	B1	B2	B3	B4	B5	H1	H2	H3	L1	L2	
TD125-11/4	200	260	208	216	176	230	215	228	873	620	310	166
TD125-14/4	200	260	208	216	176	230	215	228	873	620	310	169
TD125-20/4	350	330	255	272	248	230	215	298	1003	800	400	320
TD125-24/4	350	330	255	272	248	230	215	298	1003	800	400	330
TD125-28/4	350	330	255	272	248	230	215	298	1063	800	400	349
TD125-32/4	350	330	255	272	248	230	215	298	1103	800	400	384
TD125-38/4	400	400	310	272	248	230	215	298	1173	800	400	444
TD125-42/4	450	450	325	272	248	230	215	314	1189	800	400	499
TD125-50/4	450	450	325	272	248	230	215	314	1214	800	400	536

Performance curve

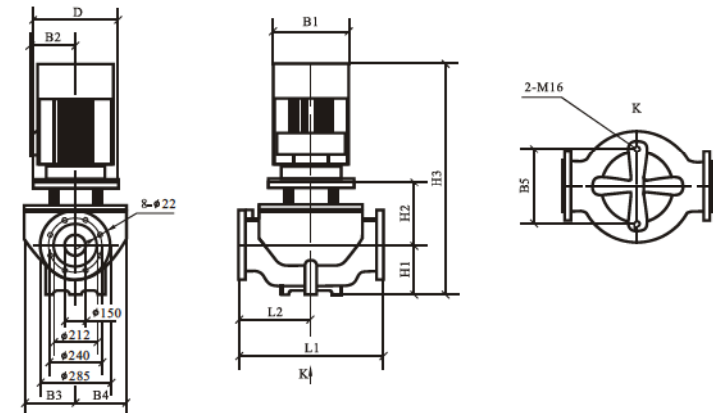
ISO9906 Annex A



Performance table

Model	Power (kW)	Q (m³/h)	20	40	60	80	100	120	140	160	180	200	220	240	260
TD150-15/4	11	H (m)	16.7	16.8	17	17.1	16.8	16.3	15.7	15	14.1	12.5	10.5	7	
TD150-18/4	15		20	20.1	20.4	20.5	20.2	19.8	19.3	18.7	18	17.1	16	14.2	
TD150-20/4	18.5		23.7	23.9	24	23.8	23.4	22.9	22.3	21.6	20.8	20	18.9	16.8	14.2
TD150-25/4	22		27.6	27.9	28.2	28.3	28.1	27.7	27.1	26.3	26.2	25	23.9	22.6	21
TD150-33/4	30		34.5	34.6	34.7	34.8	34.7	34.6	34.4	34.1	33.7	33	32.1	30.8	29
TD150-40/4	37		42.3	42.5	42.6	42.7	42.6	42.4	42	41.5	40.8	40	39.2	37.1	35.1
TD150-50/4	45		52.2	52.4	52.5	52.5	52.4	52.2	51.7	51.1	50.7	50	49.1	47.2	45.2

Installation sketch

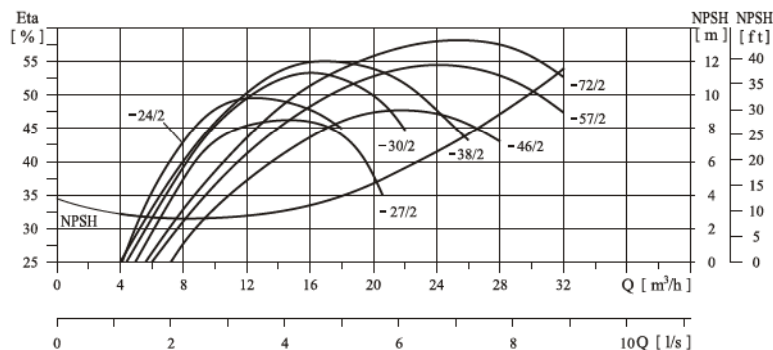
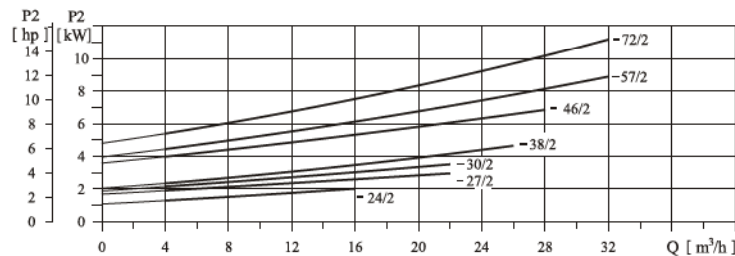
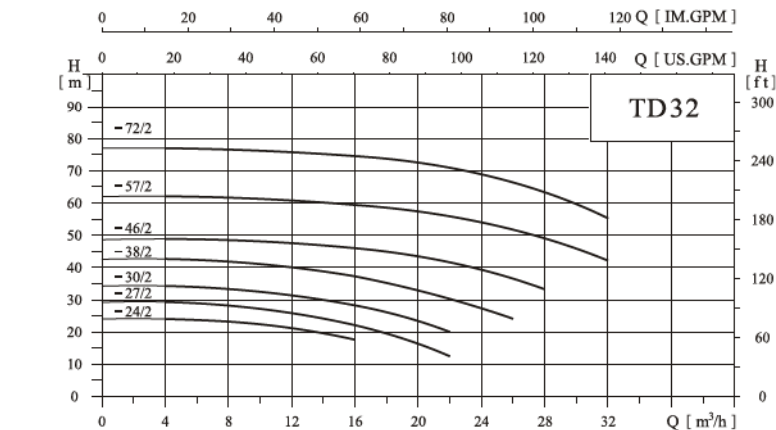


Size and weight

Model	Size (mm)											Weight (kg)
	D	B1	B2	B3	B4	B5	H1	H2	H3	L1	L2	
TD150-15/4	350	315	250	238	208	230	215	269	974	800	400	282
TD150-18/4	350	315	250	238	208	230	215	269	1014	800	400	303
TD150-20/4	350	360	275	238	208	230	215	269	1064	800	400	339
TD150-25/4	350	360	275	238	208	230	215	269	1104	800	400	354
TD150-33/4	400	400	305	238	208	230	215	269	1134	800	400	406
TD150-40/4	450	450	325	267	248	230	225	288	1183	900	450	511
TD150-50/4	450	450	325	267	248	230	225	288	1208	900	450	548

Performance curve

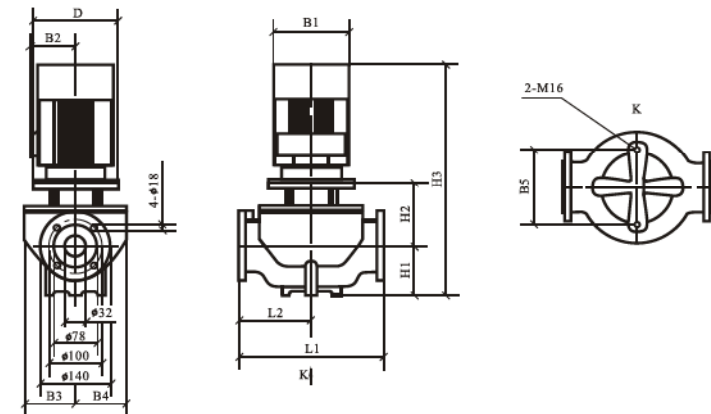
ISO9906 Annex A



Performance table

Model	Power (kW)	Q (m³/h)	4	7	8	10	12	15	20	25	30
TD32-24/2	1.5	H (m)	24.5	24	23		21	18			
TD32-27/2	2.2		29		28	27	26	23	16		
TD32-30/2	3		35		34		32	30	23		
TD32-38/2	4		43		42		40	38	33	26	
TD32-46/2	5.5		49		49		48	46	44	39	
TD32-57/2	7.5		62		62		61	59	57	53	45
TD32-72/2	11		77		77		76	75	72	67	60

Installation sketch

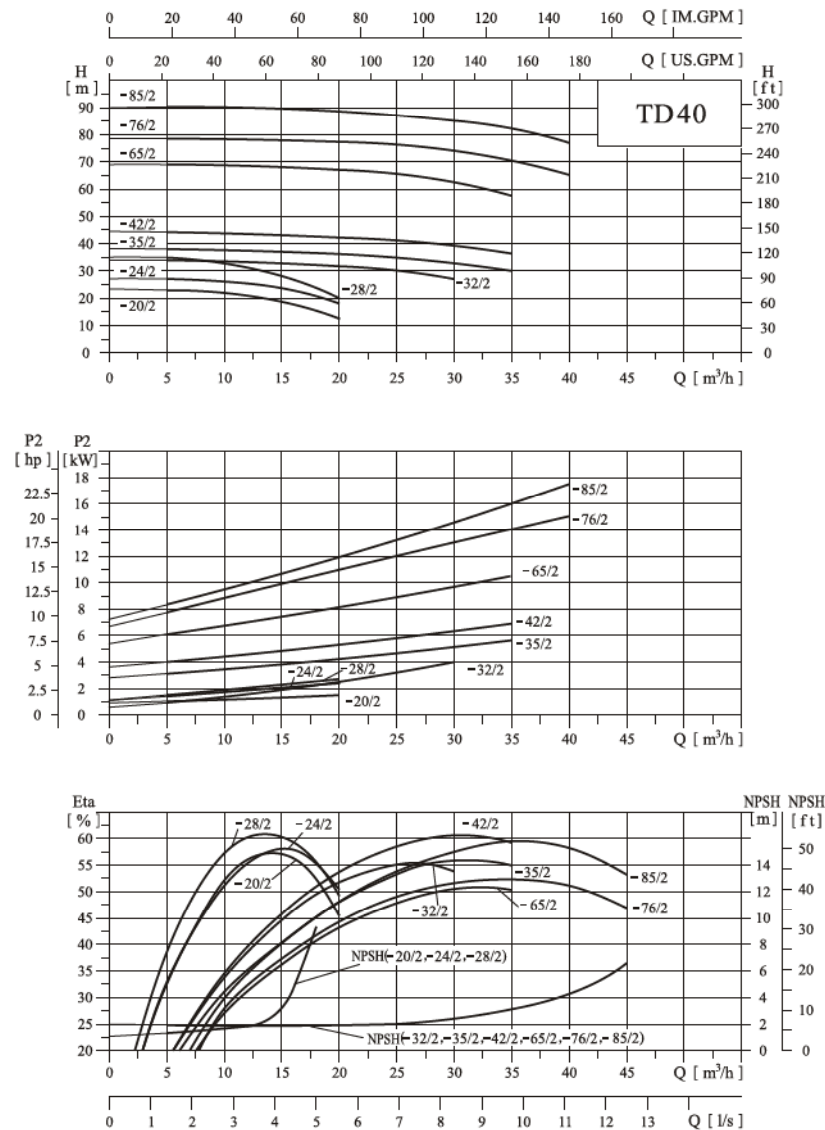


Size and weight

Model	Size (mm)											Weight (kg)
	D	B1	B2	B3	B4	B5	H1	H2	H3	L1	L2	
TD32-24/2	140	190	155	115	115	144	100	166	556	340	170	56
TD32-27/2	140	190	155	115	115	144	100	166	556	340	170	59
TD32-30/2	160	197	165	115	115	144	100	185	600	340	170	68
TD32-38/2	160	230	188	129	129	144	100	185	620	440	220	79
TD32-46/2	200	260	208	129	129	144	100	213	743	440	220	104
TD32-57/2	200	260	208	129	129	144	100	213	743	440	220	107
TD32-72/2	350	330	255	129	129	144	100	262	852	440	220	167

Performance curve

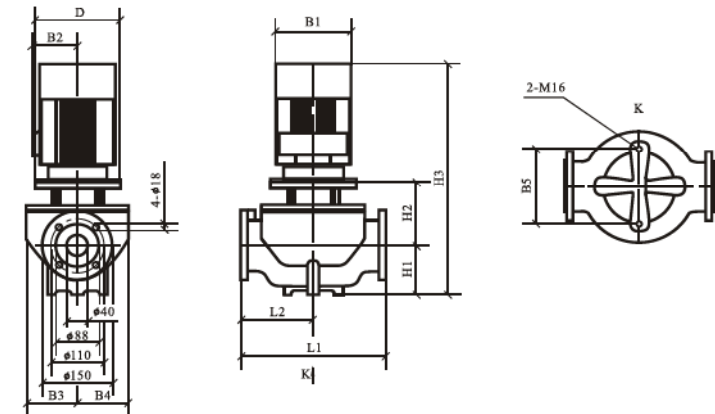
ISO9906 Annex A



Performance table

Model	Power (kW)	Q (m³/h)	5	10	12	15	20	25	30	35	40
TD40-20/2	1.5	H (m)	23	22	20	18	13				
TD40-24/2	2.2		27	26		24	18				
TD40-28/2	3		35	33		28	20				
TD40-32/2	4		34	34		33	32	30	27		
TD40-35/2	5.5		38	38		37	36	35	33	30	
TD40-42/2	7.5		45	45		44	43	42	40	37	
TD40-65/2	11		69	69		68	67	65	63	58	
TD40-76/2	15		79	79		78	77	76	73	70	65
TD40-85/2	18.5		91	91		90	89	87	85	82	77

Installation sketch

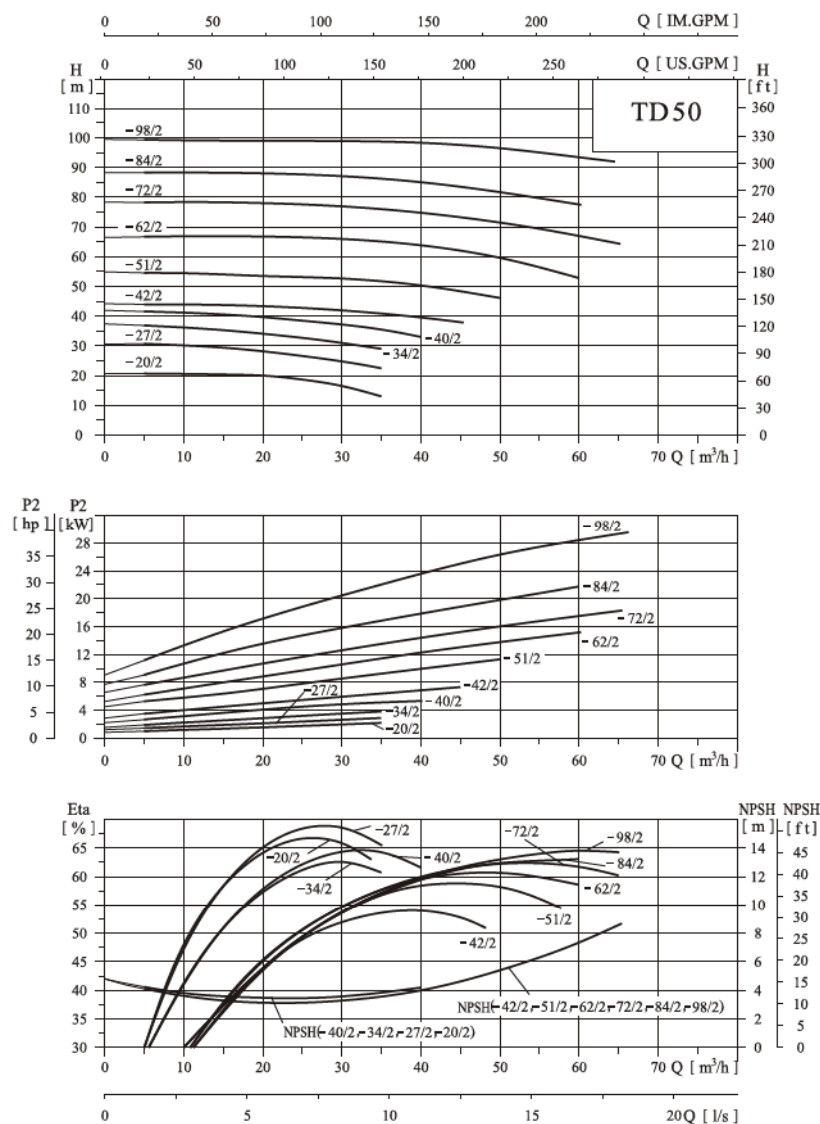


Size and weight

Model	Size (mm)											Weight (kg)
TD40-20/2	D	B1	B2	B3	B4	B5	H1	H2	H3	L1	L2	
TD40-24/2	140	190	155	97	95	120	68	160	518	320	160	46
TD40-28/2	140	190	155	97	95	120	68	160	518	320	160	53
TD40-32/2	160	197	165	97	95	120	68	178	561	320	160	70
TD40-35/2	160	230	188	138	128	144	110	185	630	440	220	77
TD40-42/2	200	260	208	138	128	144	110	213	753	440	220	106
TD40-65/2	200	260	208	138	128	144	110	213	753	440	220	110
TD40-76/2	350	330	255	138	128	144	110	262	862	440	220	167
TD40-85/2	350	330	255	140	138	144	110	262	862	440	220	178
TD40-85/2	350	330	255	140	138	144	110	262	922	440	220	196

Performance curve

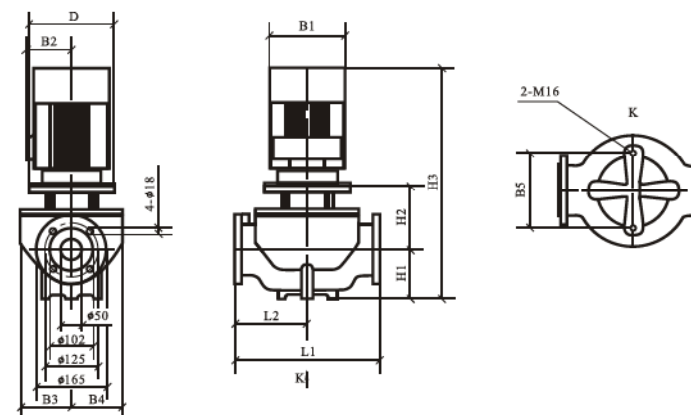
ISO9906 Annex A



Performance table

Model	Power (kW)	Q (m³/h)	5	10	15	20	25	30	35	40	45	50	55	60	65
TD50-20/2	2.2	H (m)	21	20.5	20.3	20	18.5	16.5	13.2						
TD50-27/2	3		31	30	28.8	27	26	25	22						
TD50-34/2	4		37	36.2	35.3	34	32.7	31	29						
TD50-40/2	5.5		41.5	41.2	41	40	39	37.5	35.5	33					
TD50-42/2	7.5		45.5	44		43		42		40	39				
TD50-51/2	11		54	53.5		52.5		52	51	50		47			
TD50-62/2	15		66.5	66.6		66		65		63	62	59	56	52	
TD50-72/2	18.5		77	77		77.2		76		73	72	71	69	66	64
TD50-84/2	22		88	88		88		87		85	84	83	82	78	
TD50-98/2	30		99.1	99.4		99.6		99		98.5		98		93	91

Installation sketch

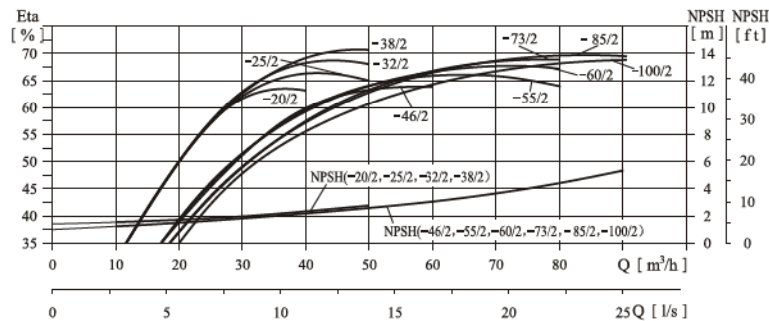
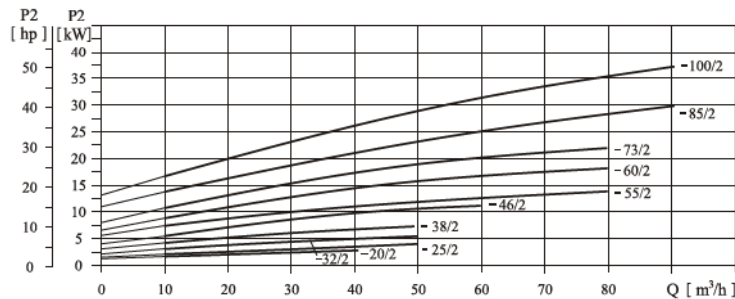
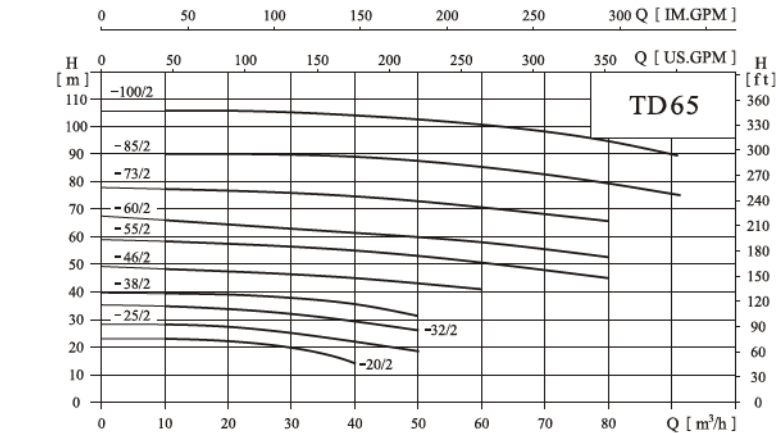


Size and weight

Model	Size (mm)											Weight (kg)
TD50-20/2	D	B1	B2	B3	B4	B5	H1	H2	H3	L1	L2	65
TD50-27/2	140	190	155	117	115	144	115	153	558	340	170	74
TD50-34/2	160	197	165	117	115	144	115	172	602	340	170	79
TD50-40/2	160	230	188	129	115	144	115	172	622	340	170	103
TD50-42/2	200	260	208	129	115	144	115	197	742	340	170	118
TD50-51/2	200	260	208	171	158	144	115	197	742	440	220	181
TD50-62/2	350	330	255	171	158	144	115	250	855	440	220	191
TD50-72/2	350	330	255	171	158	144	115	250	915	440	220	209
TD50-84/2	350	360	285	171	158	144	115	250	955	440	220	245
TD50-98/2	400	400	310	171	158	144	115	250	1025	440	220	296

Performance curve

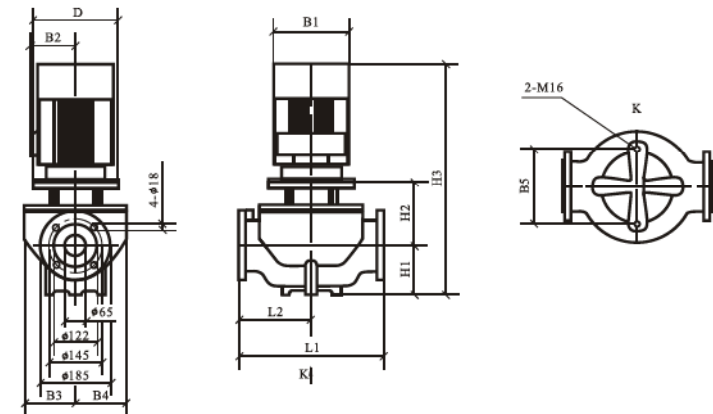
ISO9906 Annex A



Performance table

Model	Power (kW)	Q (m³/h)	10	20	30	35	40	50	60	70	80	90
TD65-20/2	3	H (m)	22.2	22	20	18	14.3					
TD65-25/2	4		28	27	25	24	21	18				
TD65-32/2	5.5		35	33.5	32	31	29.5	26				
TD65-38/2	7.5		39.5	38.7	38.5	38	36	31.5				
TD65-46/2	11		48	47	46.5	46	45	44	41			
TD65-55/2	15		57.3	56.5	56.2	55	54	52	50	48	46	
TD65-60/2	18.5		64	63.8	62	61.8	60.5	60	56	54	52	
TD65-73/2	22		78	77	76.5	76	75.5	73	71	67.6	66.5	
TD65-85/2	30		87.8	88	90	90.5	89.5	88.5	85	83	79	75
TD65-100/2	37		107.6	106	105	104	103	102	100	99.5	94	91

Installation sketch

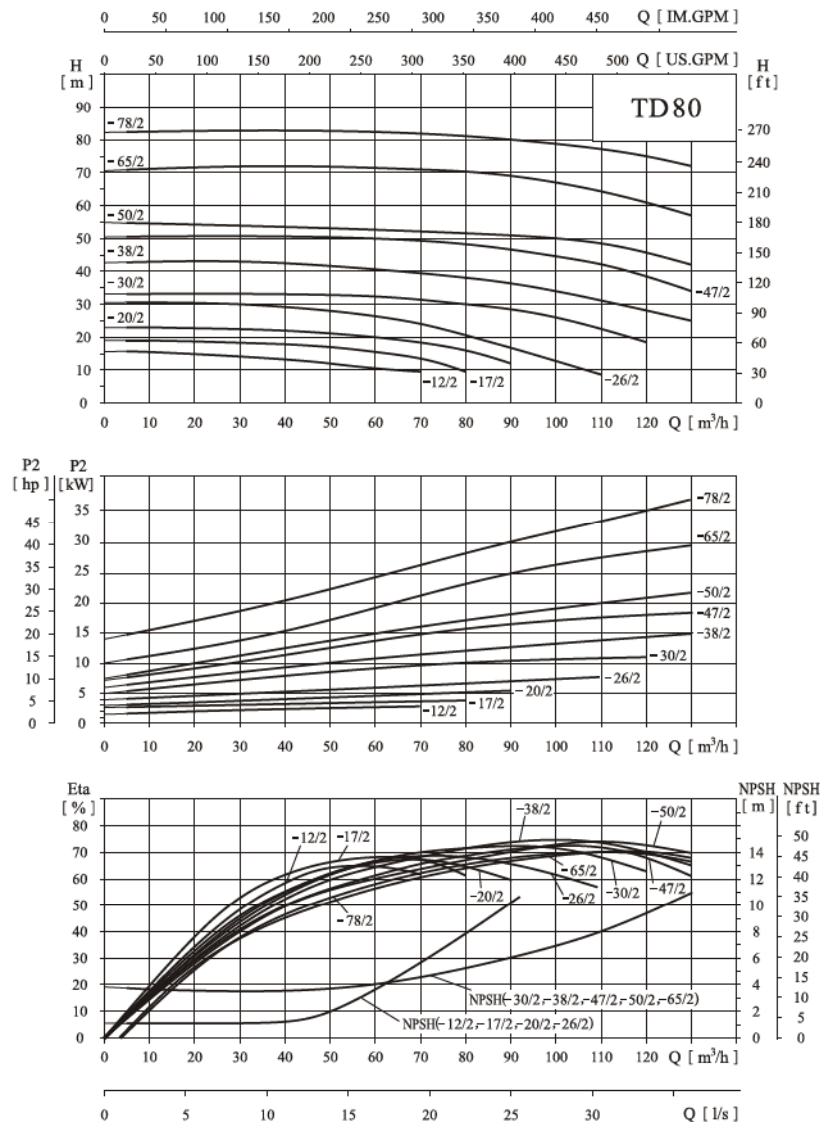


Size and weight

Model	Size (mm)											Weight (kg)
	D	B1	B2	B3	B4	B5	H1	H2	H3	L1	L2	
TD65-20/2	160	197	165	142	124	144	105	191	611	360	180	74
TD65-25/2	160	230	188	142	124	144	105	191	631	360	180	81
TD65-32/2	200	260	208	142	124	144	105	213	748	360	180	105
TD65-38/2	200	260	208	142	124	144	105	213	748	360	180	108
TD65-46/2	350	330	255	179	167	144	125	262	877	475	238	183
TD65-55/2	350	330	255	179	167	144	125	262	877	475	238	193
TD65-60/2	350	330	255	179	167	144	125	262	937	475	238	210
TD65-73/2	350	330	255	179	167	144	125	262	977	475	238	248
TD65-85/2	400	400	310	179	167	144	125	262	1047	475	238	309
TD65-100/2	400	400	310	179	167	144	125	262	1047	475	238	328

Performance curve

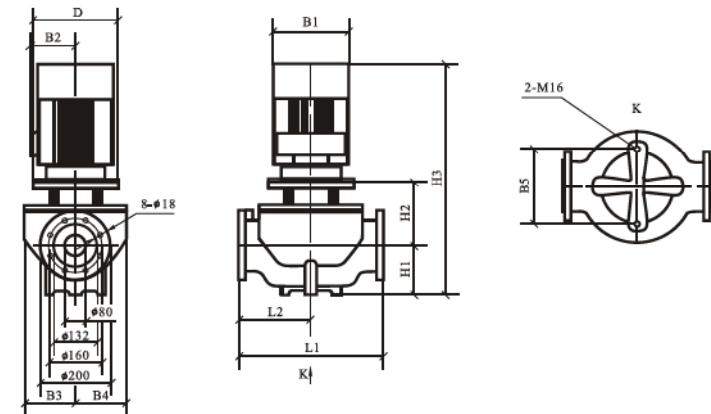
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Performance table

Model	Power (kW)	Q (m³/h)	5	10	20	30	40	50	60	70	80	90	100	110	120	130
TD80-12/2	3	H (m)	15.2	15.6	15	14.5	13.5	12	10.5	9.5						
TD80-17/2	4		18.5	19	18.6	18.1	17.5	17	15.8	13.5	9.5					
TD80-20/2	5.5		22.5	23	23.6	22.8	22	21.2	20	19	16	12				
TD80-26/2	7.5		30.3	30.6	30.4	30	29	28	26	25	21	16	12	9		
TD80-30/2	11		36.8	36.8	36.7	35.8	35.3	34.2	33.1	32.4	30	27.8	23.5	20.5	18.5	
TD80-38/2	15		42.9	43	43.1	43	42.6	42	40.5	39.5	38	36.2	32.3	32	28.9	25
TD80-47/2	18.5		51.3	51.5	50.9	50.5	50.3	50.2	50	49.4	47	46.5	44.6	42.1	38.4	34
TD80-50/2	22		54.7	55.5	55.2	55	54.8	54.5	54.3	53.4	51.6	50.5	50	48.5	45.8	42
TD80-65/2	30		70.9		71.4		72	71.9	71.6	71	70.3	69.3	65	64.3	61	57
TD80-78/2	37		81.9		82.8		82.9		82.5	82.4	81.1	80	78	77	75	72

Installation sketch

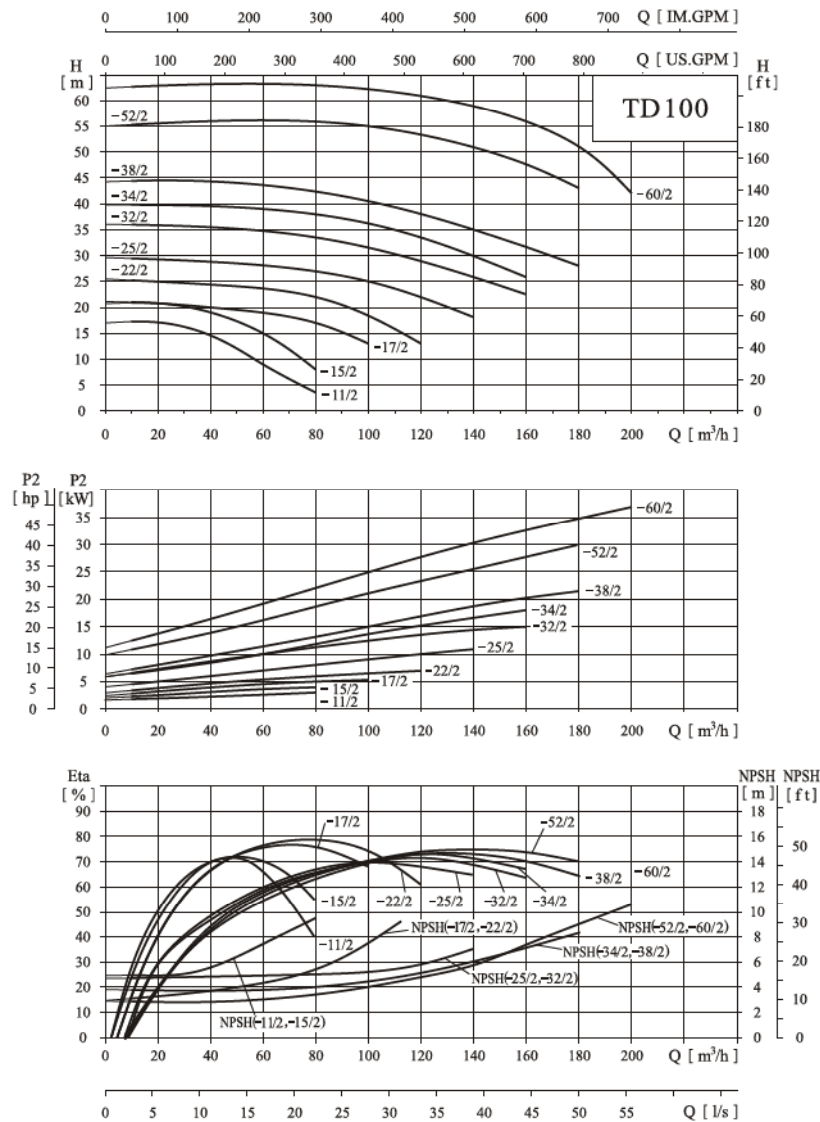


Size and weight

Model	Size (mm)											Weight (kg)
TD80-12/2	D	B1	B2	B3	B4	B5	H1	H2	H3	L1	L2	84
TD80-17/2	160	230	188	142	124	160	97	219	651	450	225	91
TD80-20/2	160	260	210	142	124	160	97	241	768	450	225	114
TD80-26/2	160	260	210	142	124	160	97	241	768	450	225	117
TD80-30/2	350	330	255	182	163	144	115	279	884	500	250	194
TD80-38/2	350	330	255	182	163	144	115	279	884	500	250	204
TD80-47/2	350	330	255	182	163	144	115	279	944	500	250	222
TD80-50/2	350	330	255	182	163	144	115	279	984	500	250	258
TD80-65/2	400	400	310	182	163	144	115	279	1054	500	250	319
TD80-78/2	400	400	310	182	163	144	115	279	1054	500	250	338

Performance curve

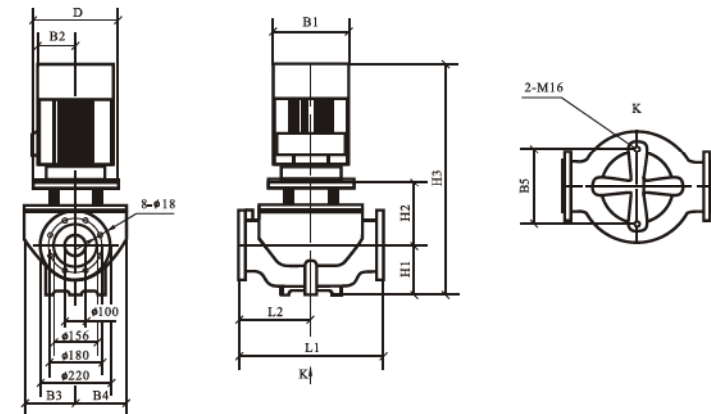
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Performance table

Model	Power (kW)	Q (m³/h)	10	20	40	50	60	80	100	120	130	140	160	180	200
TD100-11/2	3	H (m)	17.2	17.1	14.6	11	9	6.3							
TD100-15/2	4		20.7	20.8	17.9		15	8							
TD100-17/2	5.5		21.1	20.8	20		19.2	17	13						
TD100-22/2	7.5		25.6	25.4	24.4		23.5	22	18.4	13					
TD100-25/2	11		29.1	29.5	28.8		27.8	26.6	25	19.8	19.4	18.1			
TD100-32/2	15		36	36.6	35.6		34.6	33.5	32	28.9	25.5	24.5	22.5		
TD100-34/2	18.5		39.4	39.4	39.5		39	37.8	36.2	34	33.4	31	25.8		
TD100-38/2	22		43.7	44.5	44.2		43.8	42.5	40.5	38	36.4	35	30.8	28	
TD100-52/2	30		55	55.8	55.9		55.9	55.5	55	53.6	52	50.9	47.6	43	
TD100-60/2	37		62	62.9	63.3		63.2	63	62	60.6	60	57.6	54	51	42

Installation sketch

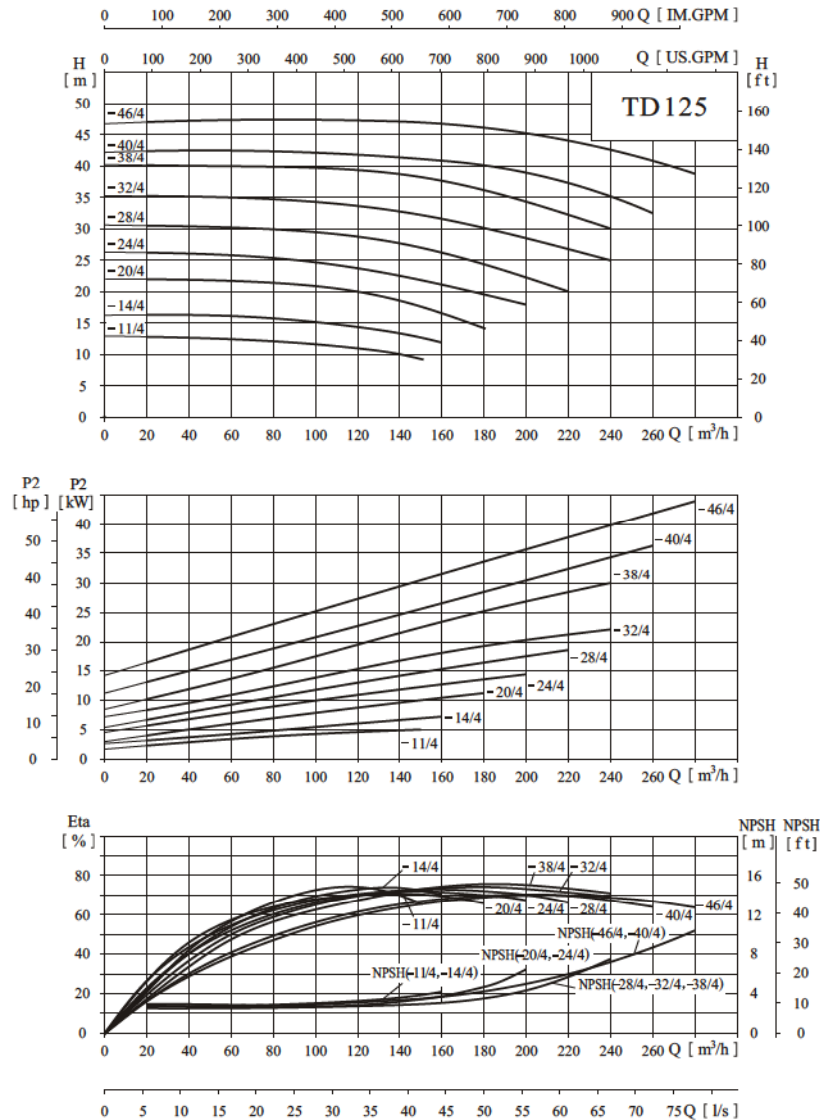


Size and weight

Model	Size (mm)											Weight (kg)
	D	B1	B2	B3	B4	B5	H1	H2	H3	L1	L2	
TD100-11/2	160	215	190	134	101	160	105	190	630	450	225	65
TD100-15/2	160	215	190	134	101	160	105	190	630	450	225	83
TD100-17/2	200	260	205	150	117	144	140	215	785	500	250	119
TD100-22/2	200	260	205	150	117	144	140	215	785	500	250	122
TD100-25/2	350	350	245	181	152	230	140	270	900	550	275	197
TD100-32/2	350	350	265	181	152	230	140	270	900	550	275	207
TD100-34/2	350	350	265	181	152	230	140	270	960	550	275	224
TD100-38/2	350	350	280	181	152	230	140	270	1000	550	275	260
TD100-52/2	400	400	305	181	152	230	140	270	1070	550	275	318
TD100-60/2	400	400	305	181	152	230	140	270	1070	550	275	337

Performance curve

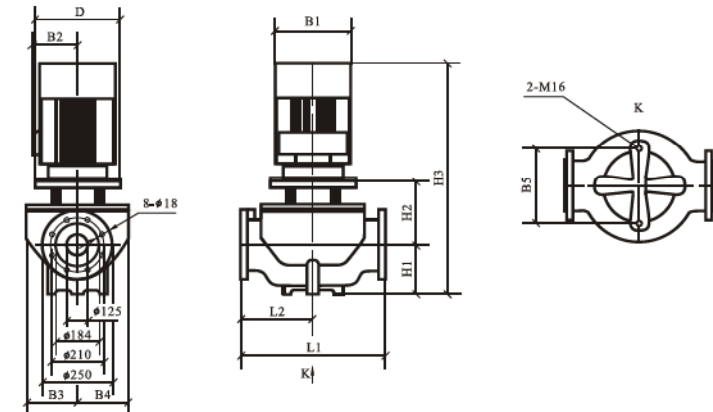
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Performance table

Model	Power (kW)	Q (m³/h)	20	40	60	80	100	120	140	150	160	180	200	220	240	260	280
TD125-11/4	5.5	H (m)	12.9	12.7	12.6	12.2	11.6	11	10	9							
TD125-14/4	7.5		16.2	16.1	16	15.9	15.3	14	13.8		12.5						
TD125-20/4	11		21.8	21.4	21.2	21	20.6	20	18		16.4	14.5					
TD125-24/4	15		26.2	25.9	25.7	25.5	24.8	24	22.9		21.2	19.8	17.8				
TD125-28/4	18.5		30.4	30.2	30.1	29.9	29.4	28.6	28		26.6	24.5	22.5	20			
TD125-32/4	22		35.2	34.9	34.8	34.5	34.2	33.5	32.7	32	31.3	30.1	27.8	25.6	25		
TD125-38/4	30		40.2	40.1	40	39.9	39.8	39.5	38.6	38	37.8	36.2	33.8	31.8	30		
TD125-40/4	37		42.6	42.8	42.9	42.7	42.4	41.9	41.3		40.7	40	38.9	37.4	35.6	32.8	
TD125-46/4	45		47.2	47.4	47.6	47.7	47.6	47.5	47.2		46.7	46	45.1	44.1	42.8	41.2	39.1

Installation sketch

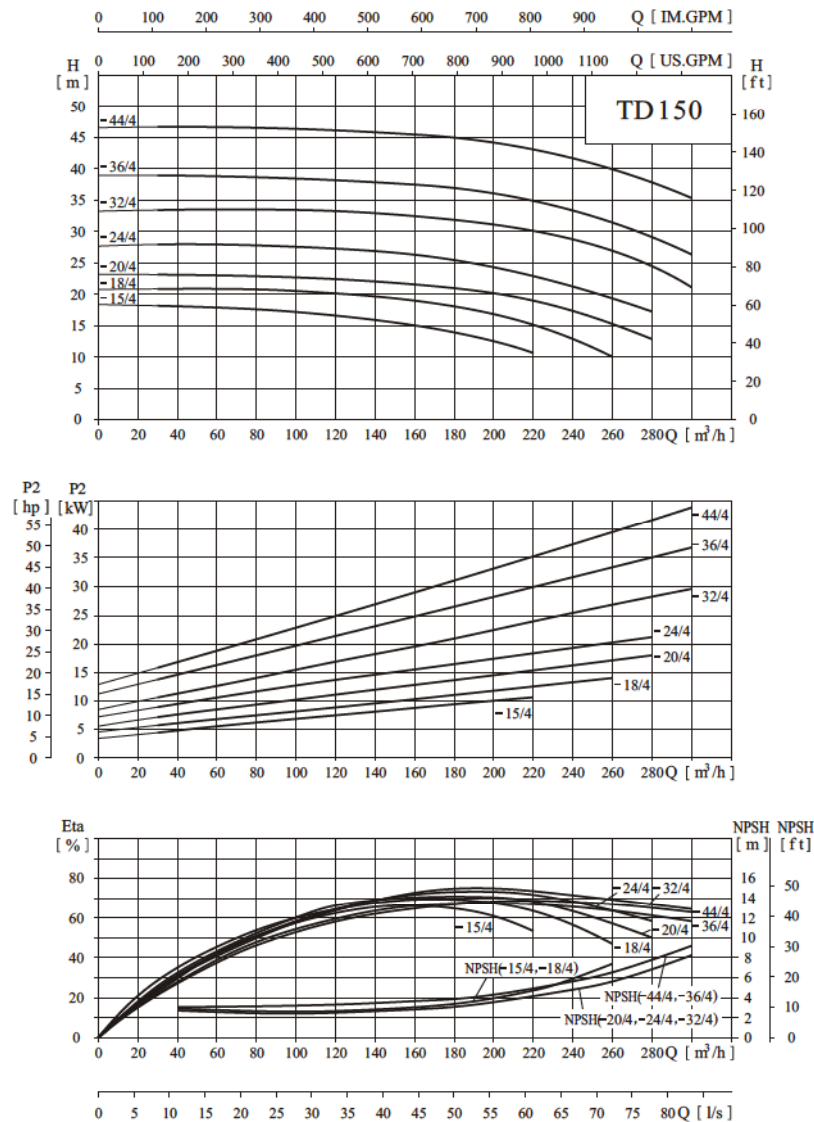


Size and weight

Model	Size (mm)											Weight (kg)
	D	B1	B2	B3	B4	B5	H1	H2	H3	L1	L2	
TD125-11/4	200	260	208	216	176	230	215	228	873	620	310	166
TD125-14/4	200	260	208	216	176	230	215	228	873	620	310	169
TD125-20/4	350	330	255	272	248	230	215	298	1003	800	400	320
TD125-24/4	350	330	255	272	248	230	215	298	1003	800	400	330
TD125-28/4	350	330	255	272	248	230	215	298	1063	800	400	349
TD125-32/4	350	330	255	272	248	230	215	298	1103	800	400	384
TD125-38/4	400	400	310	272	248	230	215	298	1173	800	400	444
TD125-40/4	450	450	325	272	248	230	215	314	1189	800	400	499
TD125-46/4	450	450	325	272	248	230	215	314	1214	800	400	536

Performance curve

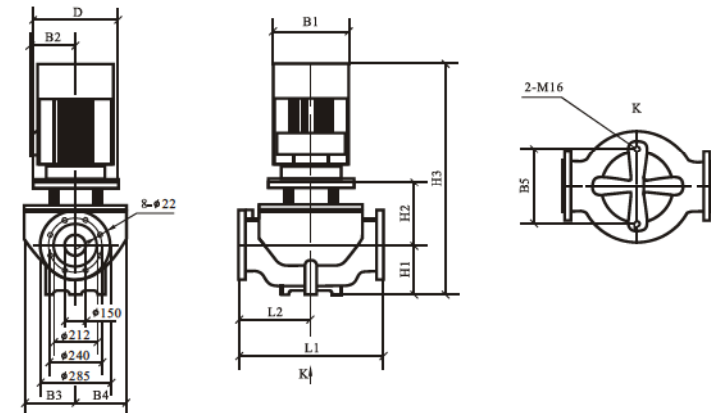
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Performance table

Model	Power (kW)	Q (m³/h)	30	60	90	120	140	160	180	200	220	240	260	280	300
TD150-15/4	11	H (m)	19.1	18.4	17.6	16.7	15.9	15	14.1	12.7	10.5				
TD150-18/4	15		21.6	21.3	20.8	20.1	19.5	18.8	18	16.9	15.4	12.6	10		
TD150-20/4	18.5		24	23.6	23.3	22.9	22.4	21.7	20.9	20	18.9	17.4	15.6	12.8	
TD150-24/4	22		27	27.2	27.1	26.8	26.3	25.8	24.9	24	22.8	21.5	19.9	17.9	
TD150-32/4	30		34.2	34.4	34.6	34.4	34	33.5	32.8	32	30.9	29.4	27.3	24.6	20.5
TD150-36/4	37		39.7	39.3	38.8	38.2	37.8	37.3	36.7	36	34.9	33.6	31.9	29.7	26.4
TD150-44/4	45		47.3	47.4	47.2	46.8	46.4	45.8	45	44	42.9	41.7	40.2	38.4	35.2

Installation sketch



Size and weight

Model	Size (mm)											Weight (kg)
	D	B1	B2	B3	B4	B5	H1	H2	H3	L1	L2	
TD150-15/4	350	315	250	238	208	230	215	269	974	800	400	280
TD150-18/4	350	315	250	238	208	230	215	269	1014	800	400	300
TD150-20/4	350	360	275	238	208	230	215	269	1064	800	400	336
TD150-24/4	350	360	275	238	208	230	215	269	1104	800	400	352
TD150-32/4	400	400	305	238	208	230	215	269	1134	800	400	403
TD150-36/4	450	450	325	267	248	230	225	288	1183	900	450	508
TD150-44/4	450	450	325	267	248	230	225	288	1208	900	450	545