

VISION & MISSION

Provide leading fluid solutions and improve the quality of life for everyone.

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TERMOJET

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**BACKPACK VARIABLE
FREQUENCY PUMP**

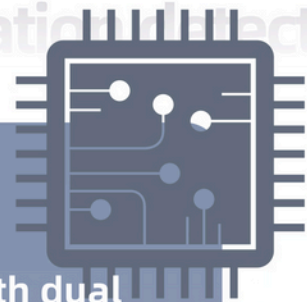


 Constant Pressure Water Supply

Built-in integrated vibration protection function

Dual Communication, Flexible Expansion.

The equipment comes standard with dual communication interfaces, allowing for external connection to a touchscreen or monitoring module when multiple frequency converters are operating together, enabling remote monitoring.



Intelligent pump control

Intelligent pump control

Can interlock with 5 pumps without the need for PLC to automatically achieve the functions of adding or subtracting pumps and scheduled rotation



Multiple protection, precise

Multiple protection, precise fault prevention Unattended and carefree

- **Burst detection:** Compares the frequency converter operation data with the outlet pressure feedback data to determine whether the pipeline blows up. If yes, the machine will be stopped
- **Anti freezing:** According to the temperature measurement system of the frequency converter, when freezing may occur, the pumps may run intermittently to ensure that the pump unit does not freeze to stop working.
- **Water shortage protection:** Compares pressure data and frequency converter operation parameters to stop the pump when water shortage in the pipeline reaches the warning value and generate feedback information on the fault.

Efficient range control technology

Efficient range control technology

- Using a unique algorithm, whether it is a single pump or a pump unit, the water pump can operate in an efficient range, which increases the efficiency by 5% -10% compared with traditional solutions



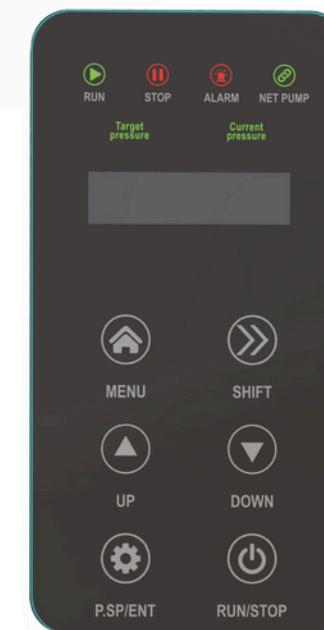
● **Constant pressure water supply system**

- Professional constant pressure water supply system, simpler and more specialized control

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- Sleep time, sleep sensitivity, water shortage, and water shortage reset time can be set according to parameters to meet different on-site conditions and needs.
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- Manual frequency conversion and pressure regulation of individual pump after sensor failure
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- Simple internal interlock function to achieve multi-pump interlocking without control cabinet



TBE Series

Backpack Type Detachable Inline Pump



TERMOJET Value Proposition: Energy saving High reliability

TBE Backpack Type Detachable Inline Pump

Product Overview

TBE Backpack Type Detachable Inline Pump (hereinafter referred to as the Inline Pump). Through hydraulic and structural optimization and combined with industrial design and reliability design tests, it has the characteristics of high efficiency and energy-saving, stable performance, low noise, no overload, large flow rate, wide efficiency area, and beautiful appearance. This product can completely replace its foreign counterparts.

Application Fields

The TBE Backpack Type Detachable Inline Pump is applicable to clean, non corrosive, non flammable and non explosive media that do not contain any solid particles or fibers that may cause physical or chemical damage to the pump. It is mainly used as liquid conveying, pressurization, and circulation equipment, such as:

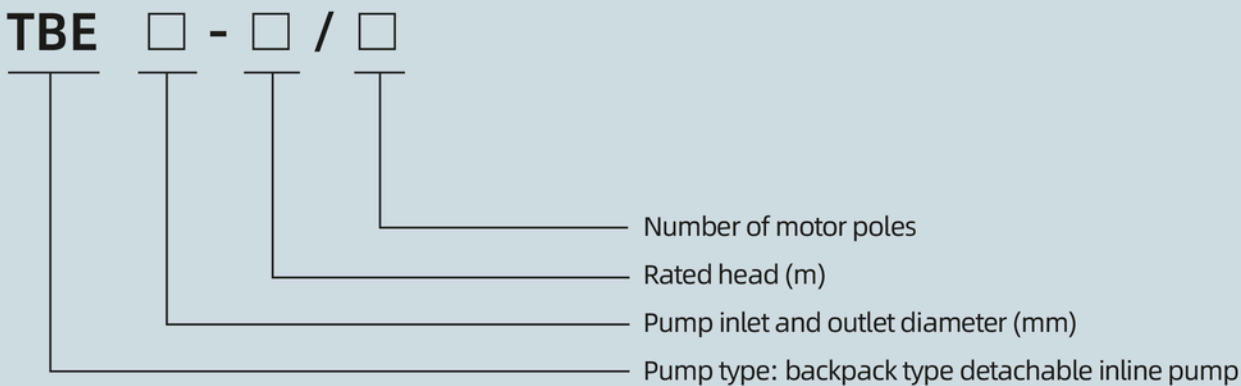
- Heating system
- Regional water supply system
- Secondary pressurization of high-rise building pipeline network
- Air conditioning circulating cooling system
- Cleaning cycle system for general industrial equipment
- Boiler water supply
- General domestic water supply

Operating Conditions

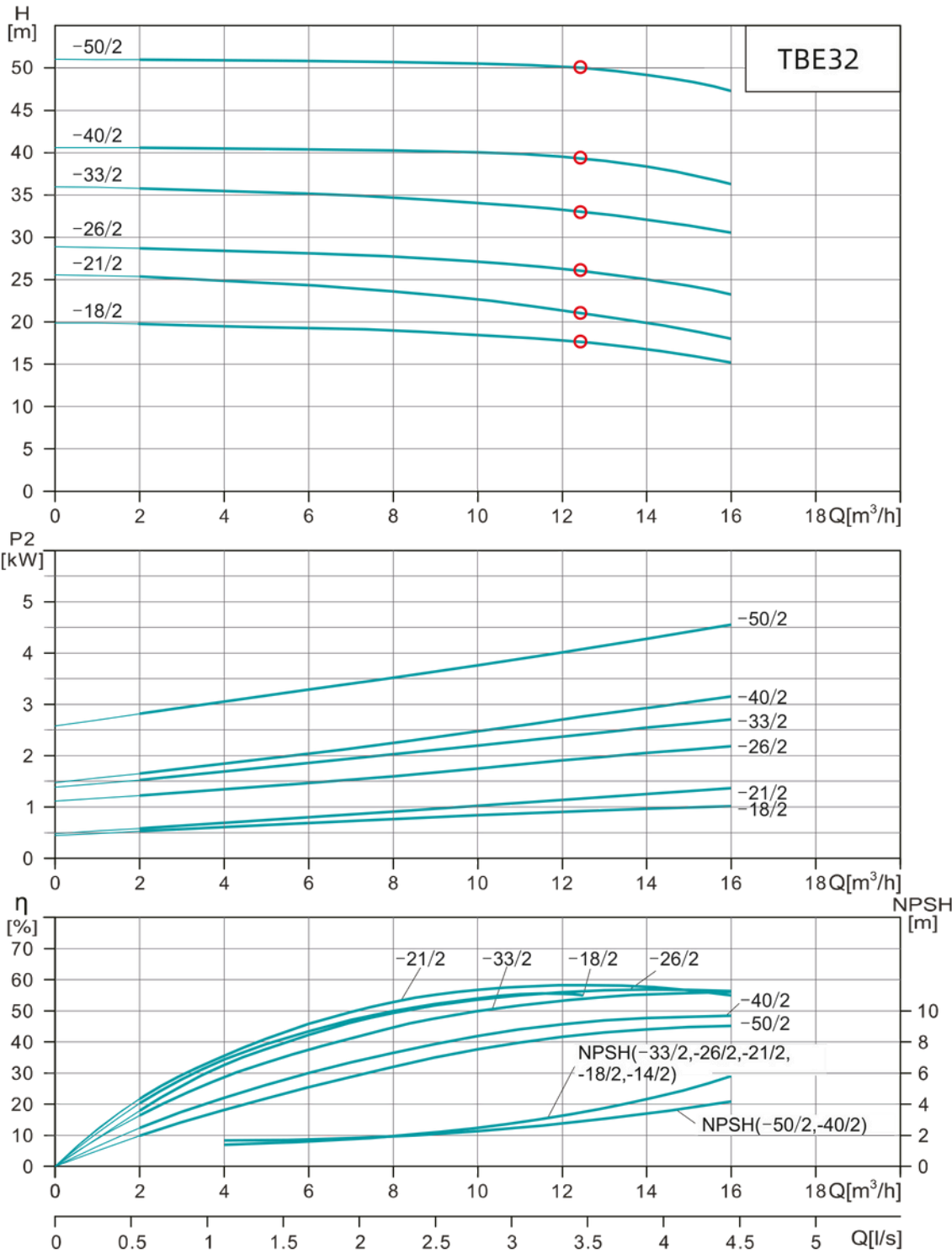
The use of the TBE Backpack Type Detachable Inline Pump is limited by the following conditions:

Diameter: DN32~DN150;
Flow rate: 12.5m³/h~200m³/h;
Lift: 9 m~81 m;
Power: 1.1kW~18.5kW;
Power supply: 380V, 50Hz;
Speed: 1450, 2900r/min;
System pressure: maximum pressure 1.6MPa;
Medium: Temperature 0-120° C, pH 5-9;
Ambient temperature: ≤ 40° C

Model Definition

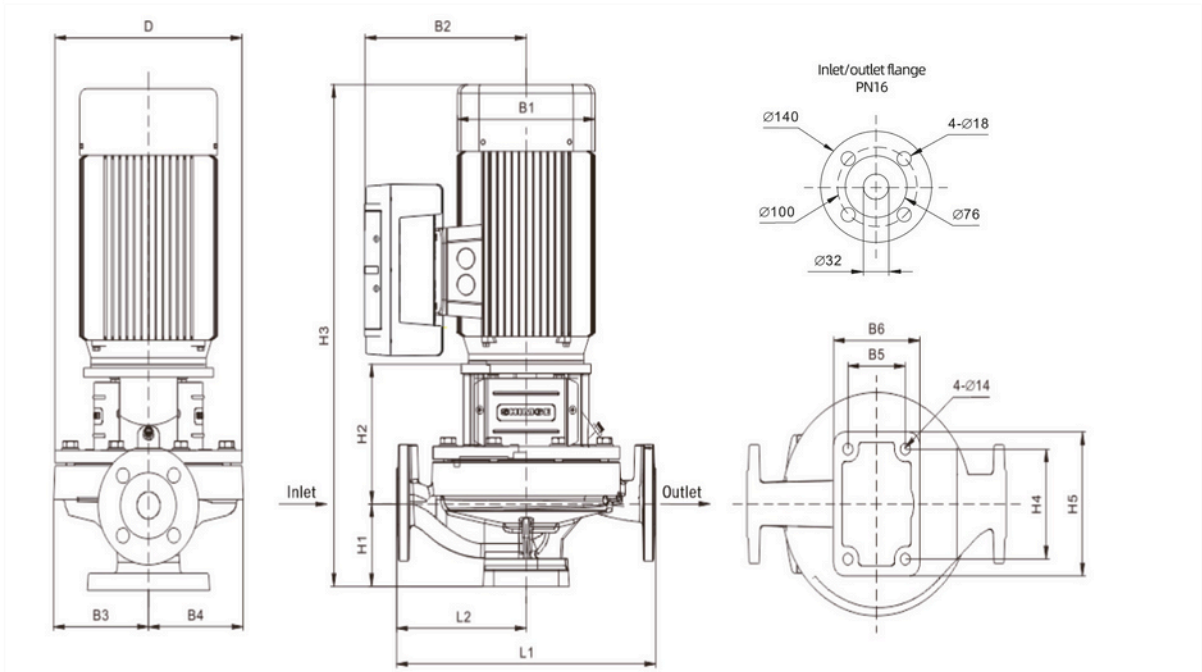


TB32E-*/2



Performance

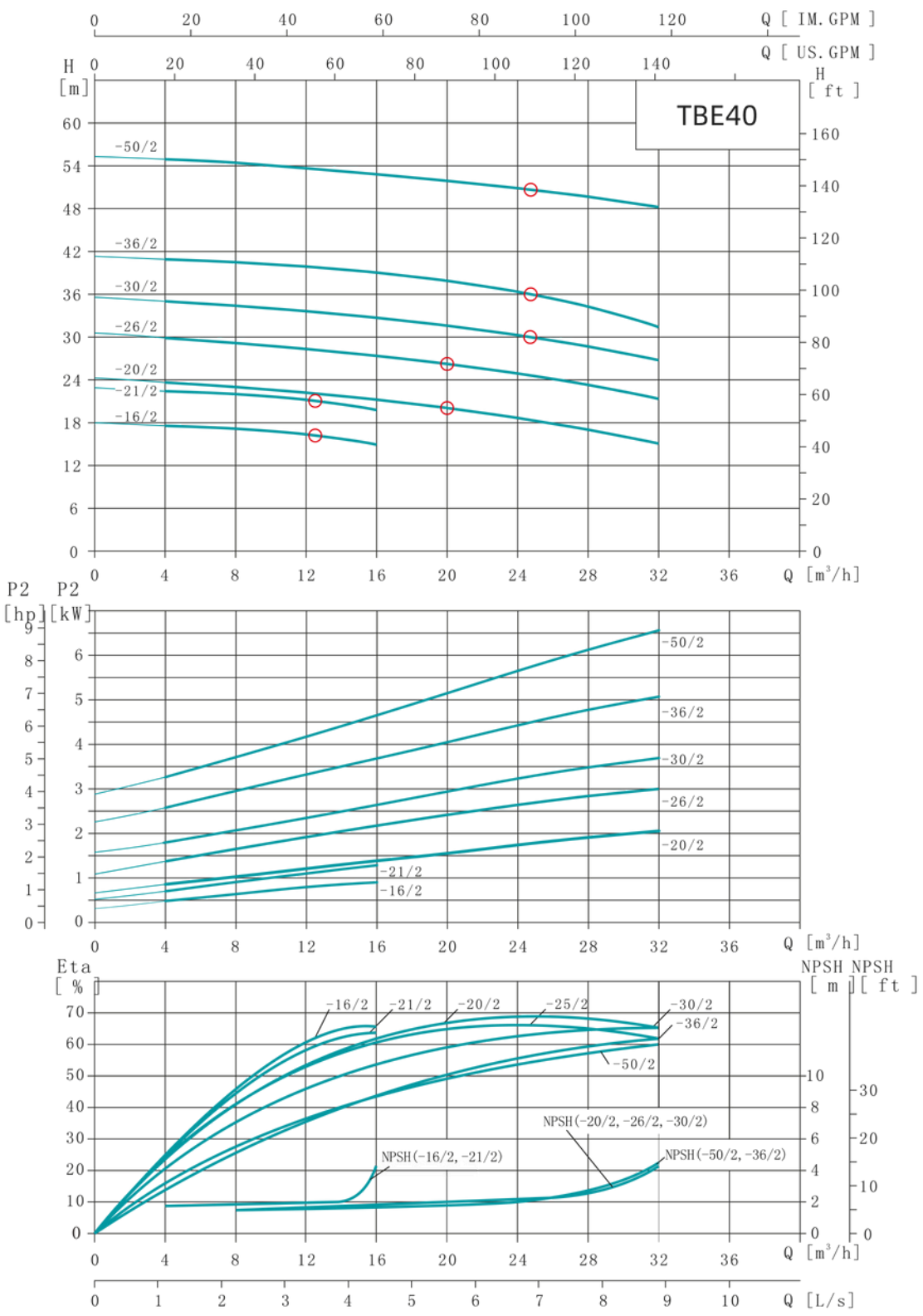
Model	Power (kw)	Q (m³/h)	2	4	6	8	10	12.5	14	16
TBE32-18/2	1.1	H(m)	19.6	19.4	19.1	19	18.8	18	16.8	15.6
TBE32-21/2	1.5		25.3	24.9	24.3	23.6	22.6	21	19.9	18
TBE32-26/2	2.2		28.7	28.4	28.1	27.7	27.1	26	25	23.2
TBE32-33/2	3		35.8	35.5	35.1	34.7	34.1	33	32.1	30.6
TBE32-40/2	3		41.3	41.2	41.1	41	40.7	40	38	35.2
TBE32-50/2	4		51	50.9	50.8	50.7	50.5	50	49.2	47.3



Dimensions and Weight

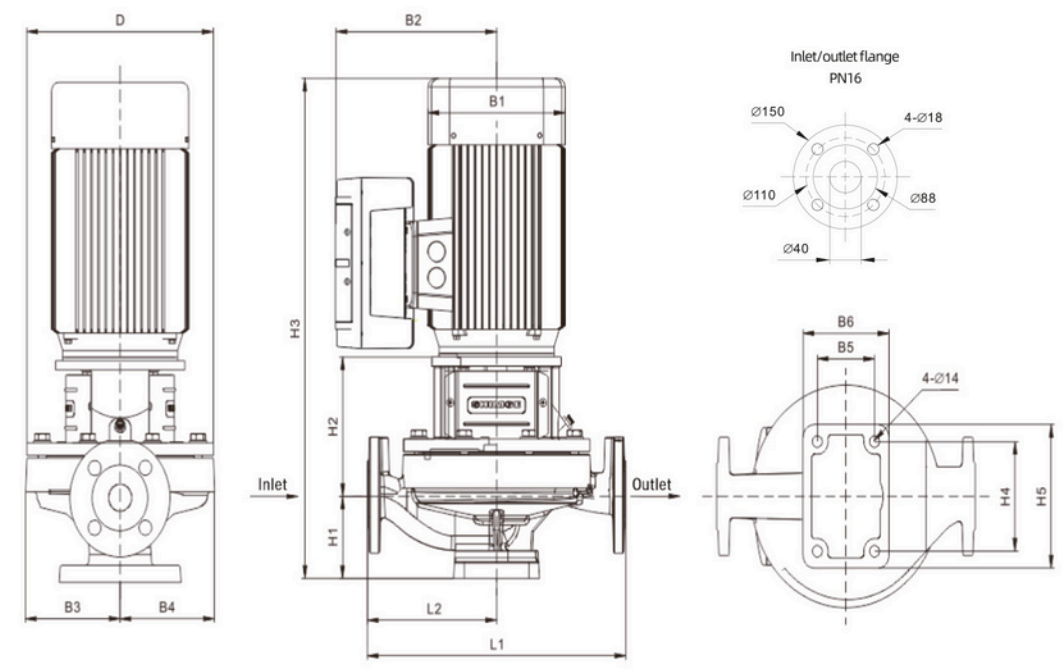
Model	Dimensions [mm]														N.W [kg]
	D	B1	B2	B3	B4	B5	B6	H1	H2	H3	H4	H5	L1	L2	
TBE32-18/2	188	148	207	95	95	70	100	90	142	480	120	150	320	160	33
TBE32-21/2	188	166	226	95	95	70	100	90	149	520	120	150	320	160	37
TBE32-26/2	223	166	226	110	110	70	100	90	149	535	120	150	320	160	41
TBE32-33/2	223	191	239	110	110	70	100	90	159	560	120	150	320	160	59
TBE32-40/2	260	191	239	129	129	80	120	100	166	585	130	170	360	180	60
TBE32-50/2	260	212	251	129	129	80	120	100	166	615	130	170	360	180	63

TBE40-*/2



Performance

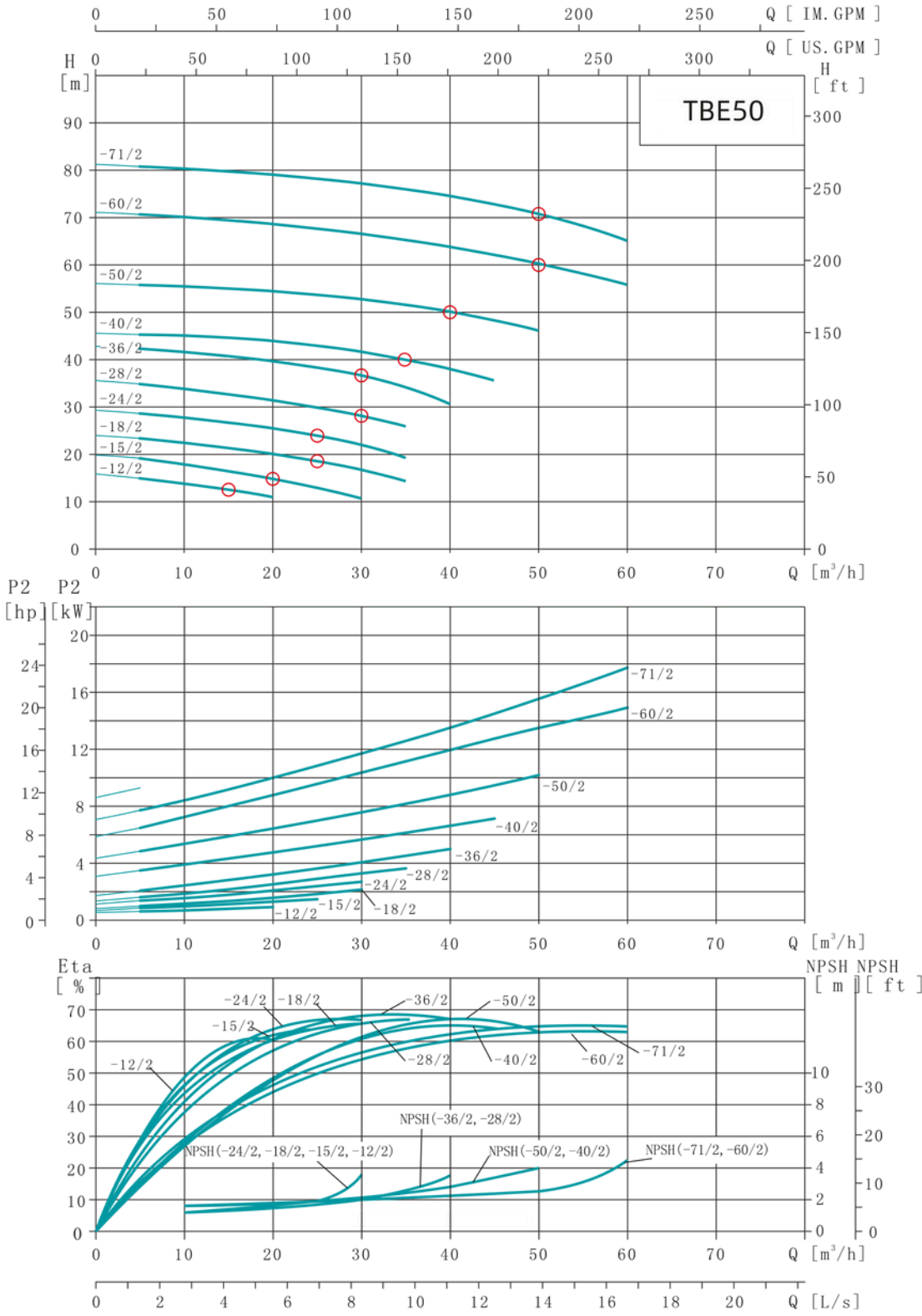
Pump model	Motor power (kw)	Q (m³/h)	4	8	12.5	16	20	25	28	32
TBE40-16/2	1.1	H(m)	17.8	16.9	16	14.5				
TBE40-21/2	1.5		22.8	21.7	21	19.7				
TBE40-20/2	2.2		23.6	23.4	22.1	21.4	20	18.1	16.7	14.6
TBE40-26/2	3		29.8	29.2	28.1	27.4	26	24	22.7	20.8
TBE40-30/2	4		35.2	34.8	33.5	32.6	31.9	30	27.4	26.1
TBE40-36/2	5.5		40.2	39.5	38.7	37.5	37.1	36	34.6	32.5
TBE40-50/2	7.5		55.4	54.2	53.1	52.7	51.3	50	49.2	48.4



Dimensions and Weight

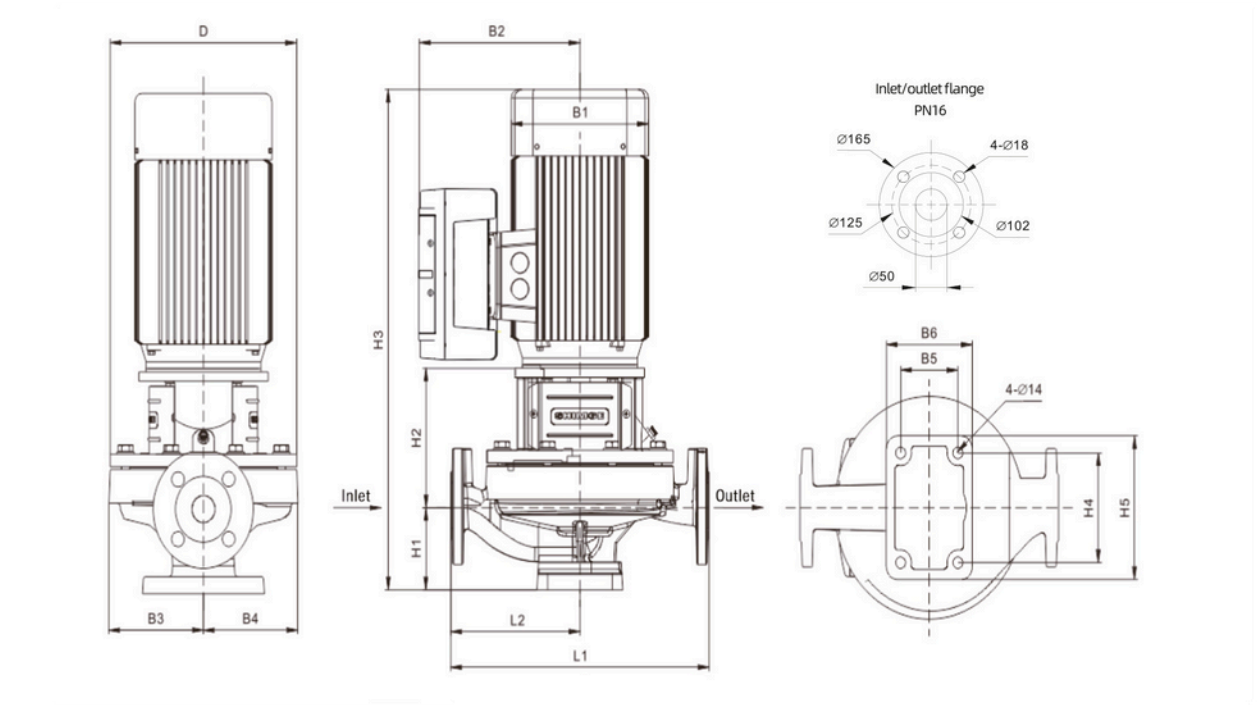
Model	Dimensions [mm]														N.W [kg]
	D	B1	B2	B3	B4	B5	B6	H1	H2	H3	H4	H5	L1	L2	
TBE40-16/2	200	153	205	121	121	195	235	98	170	520	195	235	320	160	40
TBE40-21/2	200	168	217	121	121	195	235	98	170	561	195	235	320	160	45
TBE40-20/2	200	168	217	121	121	195	235	130	170	593	195	235	340	170	50
TBE40-26/2	250	195	232	121	121	195	235	130	190	637	195	235	340	170	61
TBE40-30/2	250	215	249	121	121	195	235	130	190	663	195	235	340	170	67
TBE40-36/2	300	260	271	167	167	195	235	140	225	785	195	235	440	220	98
TBE40-50/2	300	260	271	167	167	195	235	140	225	785	195	235	440	220	104

TBE50-**/2



Performance

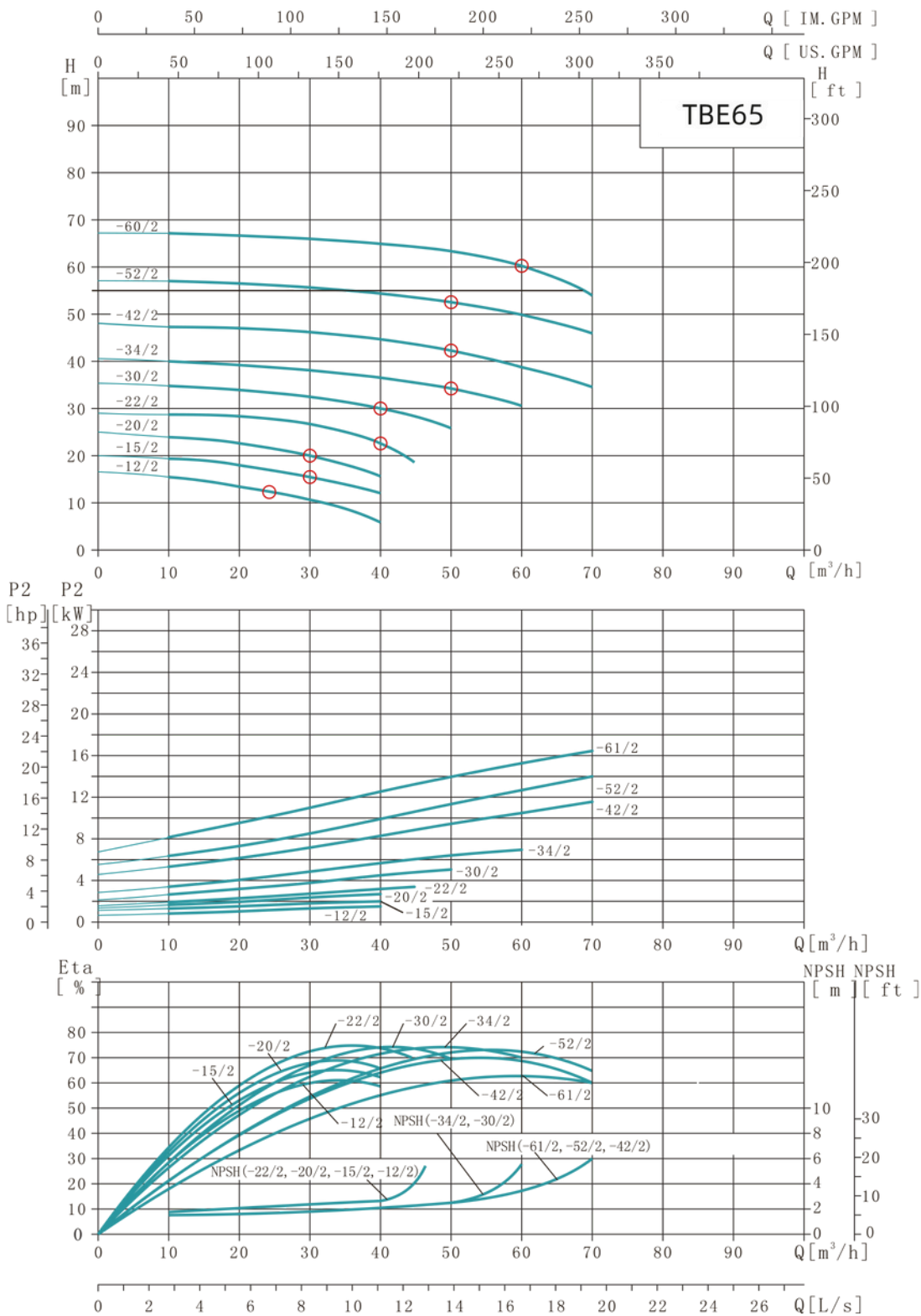
Model	Power (kw)	Q (m³/h)	5	10	16	20	25	30	35	40	45	50	60
TBE50-12/2	1.1	H(m)	15.2	14.8	12	10.8							
TBE50-15/2	1.5		18.2	17.5	16.1	15	13.2	10.5					
TBE50-18/2	2.2		23.3	22.4	21.2	20.5	18	16	14				
TBE50-24/2	3		28.4	27.3	26.2	25.5	24	21.6	19.2				
TBE50-28/2	4		34.4	33.1	32.6	31.8	30.2	28	26.7				
TBE50-36/2	5.5		42.2	41.5	40.2	39.6	38.1	36	33.5	30.5			
TBE50-40/2	7.5		45.2	44.6	43.4	42.8	42.1	41.1	40	38.1	35.2		
TBE50-50/2	11		56.1	55.4	55.2	54.8	54.3	53.5	52	50	47.2	46.1	
TBE50-60/2	15		70.7	70.4	70.2	69.2	68.5	67.6	66.1	64.2	62.2	60	56.8
TBE50-71/2	18.5		80.5	80.2	80	79.7	79.2	78.4	77.4	75.6	73.2	71	65.1



Dimensions and Weight

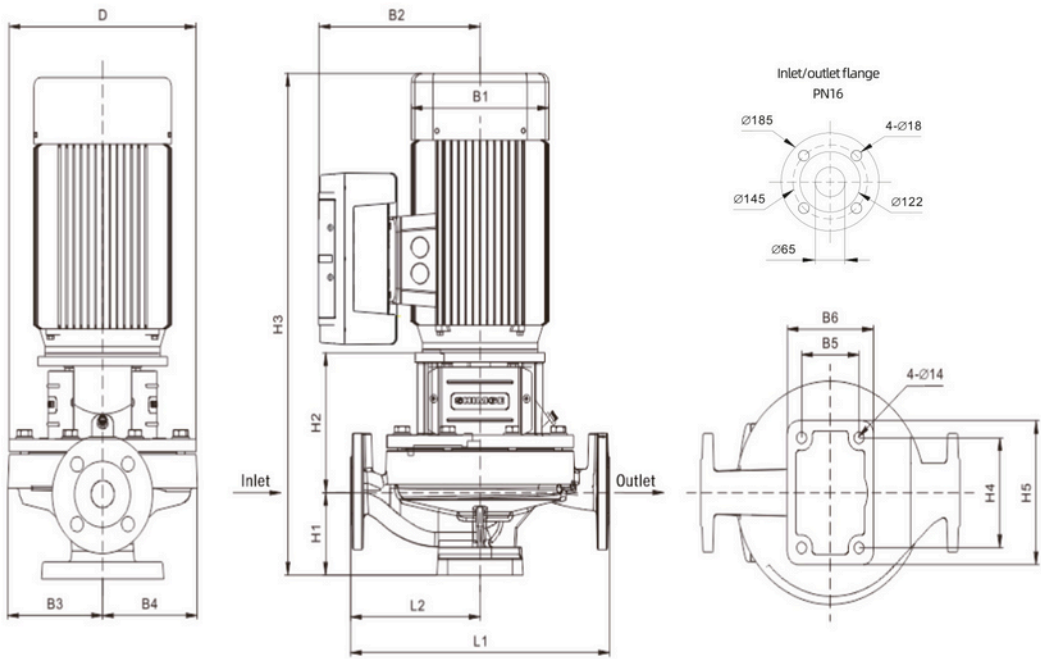
Model	Dimensions [mm]														Weight [kg]
	D	B1	B2	B3	B4	B5	B6	H1	H2	H3	H4	H5	L1	L2	
TBE50-12/2	200	153	205	121	121	195	235	145	150	547	195	235	340	170	46
TBE50-15/2	200	168	217	121	121	195	235	145	150	588	195	235	340	170	50
TBE50-18/2	200	168	217	121	121	195	235	145	150	588	195	235	340	170	52
TBE50-24/2	250	195	232	121	121	195	235	145	170	632	195	235	340	170	63
TBE50-28/2	250	215	249	121	121	195	235	145	182	670	195	235	340	170	69
TBE50-36/2	300	260	271	121	121	195	235	145	222	787	195	235	340	170	90
TBE50-40/2	300	260	271	167	167	195	235	145	223	788	195	235	440	220	109
TBE50-50/2	350	314	382	167	167	195	235	145	258	901	195	235	440	220	172
TBE50-60/2	350	314	382	167	167	195	235	145	258	901	195	235	440	220	187
TBE50-71/2	350	314	382	167	167	195	235	145	258	945	195	235	440	220	206

TBE65-*/2



Performance

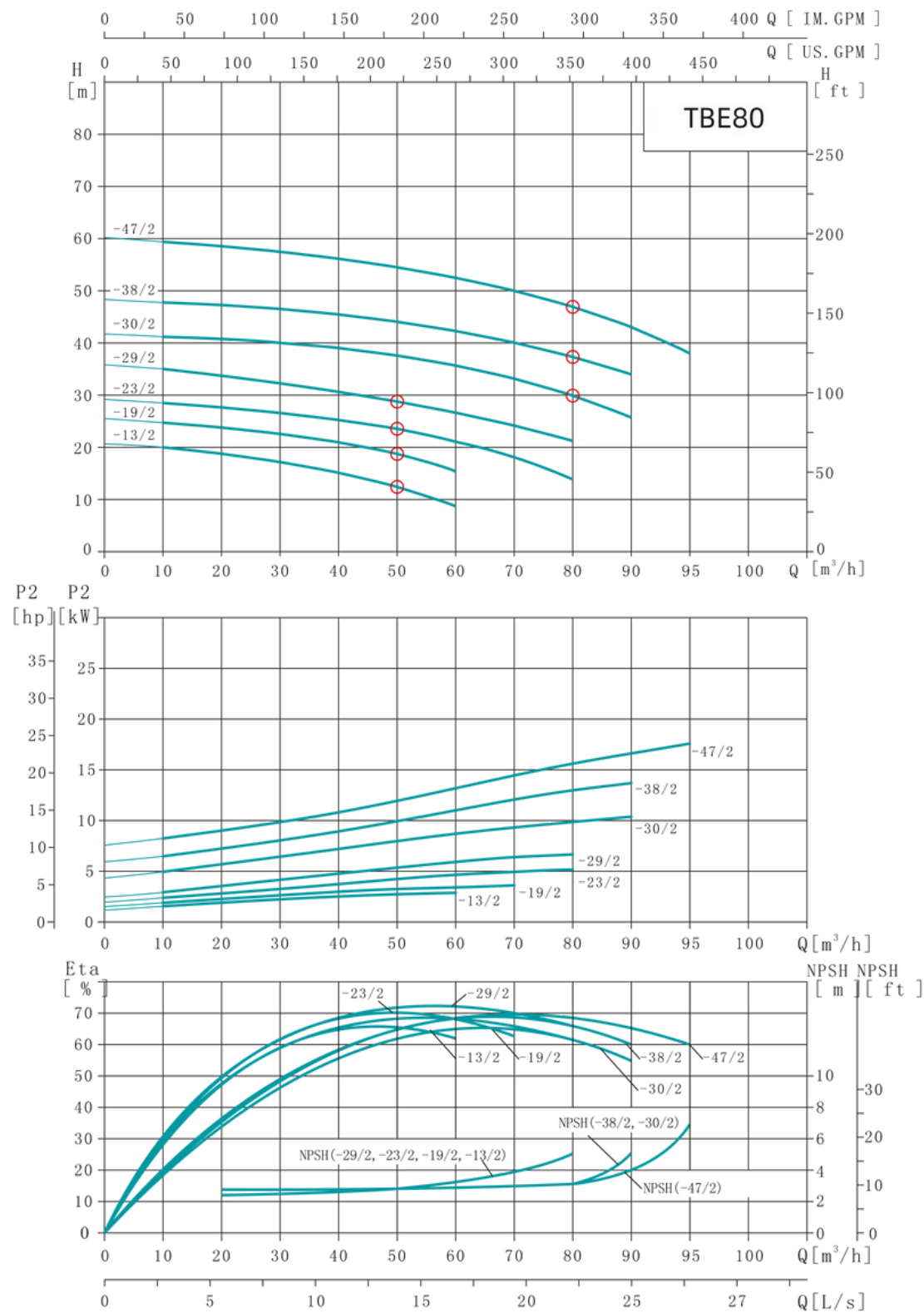
Model	Power (kw)	Q (m³/h)	10	20	25	30	40	50	60	70
TBE65-12/2	1.5	H(m)	15.5	14.1	12	10.7	8			
TBE65-15/2	2.2		20.4	18.8	17.2	15	12.5			
TBE65-20/2	3		25.2	23.5	21.8	20	18.2			
TBE65-22/2	4		29.5	28.2	26.9	25.6	22	15		
TBE65-30/2	5.5		34.3	33.1	32.7	32.2	30	26.6		
TBE65-34/2	7.5		40.2	39.3	38.5	37.7	36.8	34	30.6	
TBE65-42/2	11		47.9	46.4	46	45.5	44.1	42	38.3	35.1
TBE65-52/2	15		58.4	56.6	56.2	55.8	54.2	52	48.5	45.1
TBE65-60/2	18.5		67.4	66.7	66.4	66.1	65.1	62.4	60	55.4



Dimensions and Weight

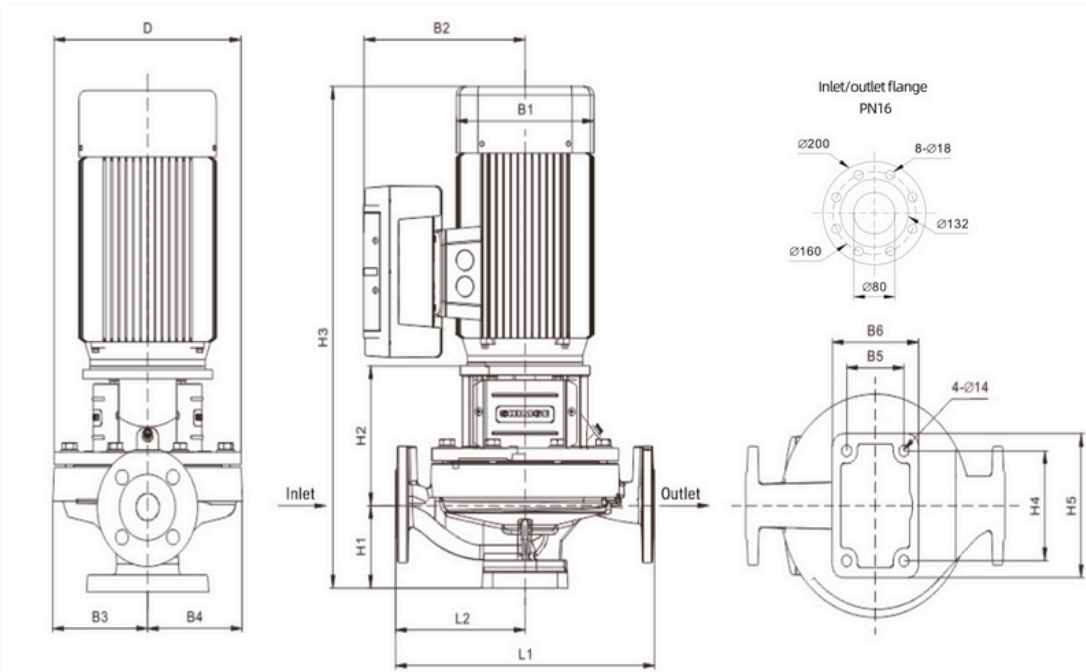
Model	Dimensions [mm]														Weight [kg]
	D	B1	B2	B3	B4	B5	B6	H1	H2	H3	H4	H5	L1	L2	
TBE65-12/2	200	168	217	121	132	195	235	135	170	598	195	235	360	180	52
TBE65-15/2	200	168	247	121	132	195	235	135	170	598	195	235	360	180	54
TBE65-20/2	250	195	232	121	132	195	235	135	190	642	195	235	360	180	65
TBE65-22/2	250	215	249	121	132	195	235	135	190	668	195	235	360	180	71
TBE65-30/2	300	260	271	121	132	195	235	135	230	785	195	235	360	180	92
TBE65-34/2	300	260	271	121	132	195	235	135	230	785	195	235	360	180	98
TBE65-42/2	350	314	382	167	169	195	235	155	260	913	195	235	475	237.5	174
TBE65-52/2	350	314	382	167	169	195	235	155	260	913	195	235	475	237.5	190
TBE65-60/2	350	314	382	167	169	195	235	155	260	957	195	235	475	237.5	209

TBE80-**-2



Performance

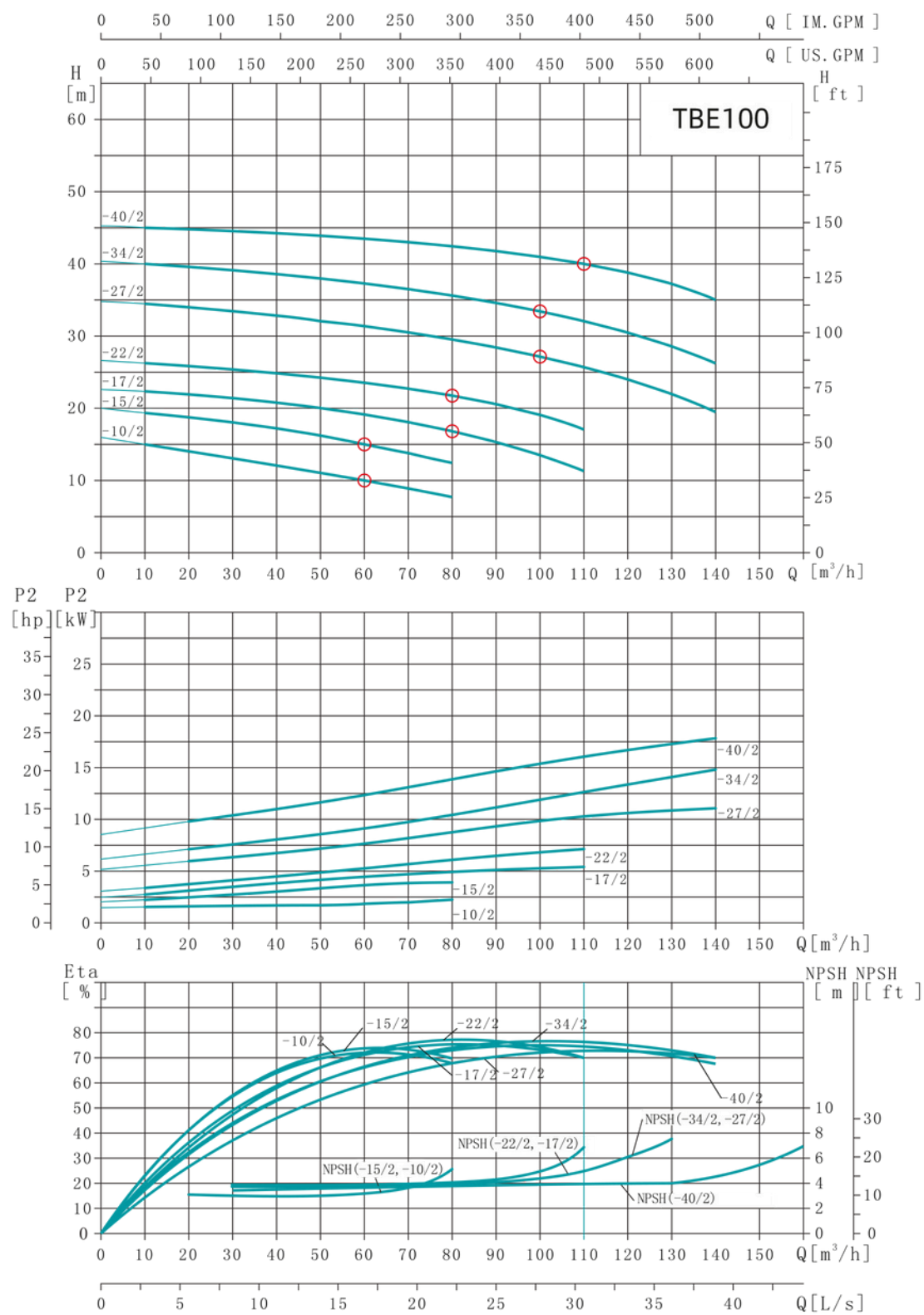
Model	Power (kw)	Q (m³/h)	10	20	30	40	50	60	70	80	90	95
TBE80-13/2	3	H(m)	20	18.3	16.7	14.7	13	9.2				
TBE80-19/2	4		25	24.2	22.5	20.8	19	15.2				
TBE80-23/2	5.5		28.3	27.8	26.4	24.6	23	20.5	17.7	13.6		
TBE80-29/2	7.5		34.6	33.5	32.7	31.2	29	25.4	23.3	21.5		
TBE80-30/2	11		41.8	41.3	40.4	39.1	37.4	35.2	33.1	30	26.5	
TBE80-38/2	15		48.1	47.9	47.3	46.1	45.2	42.7	40.1	38	34	
TBE80-47/2	18.5		59.2	57.6	57.1	55.7	54.1	52	49.8	47	42.6	38.2



Dimensions and Weight

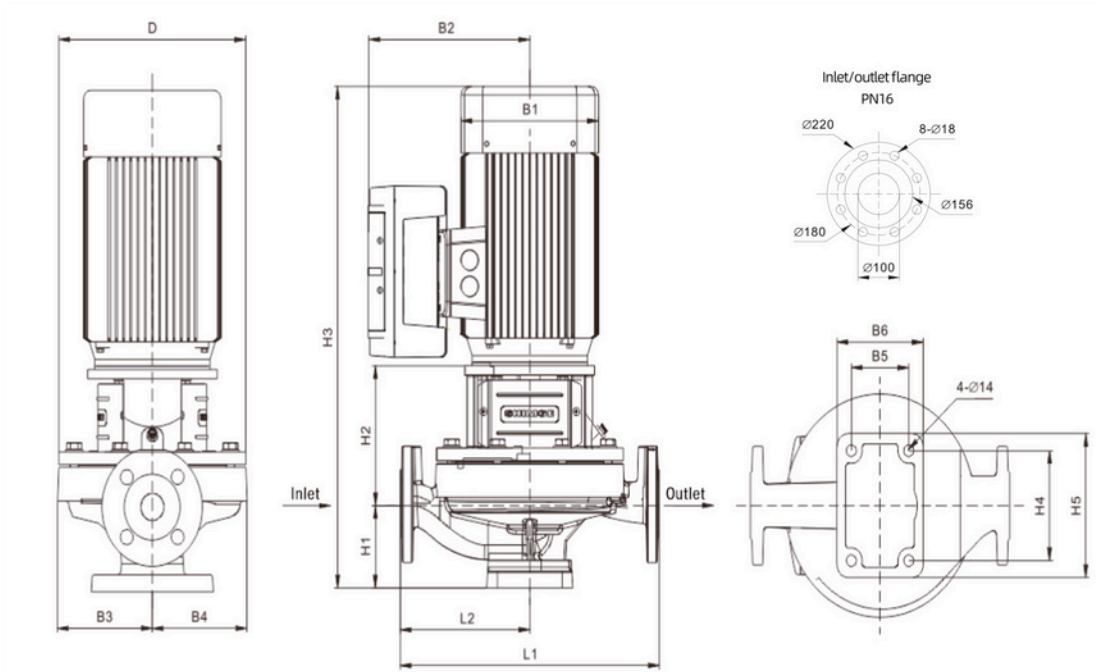
Model	Dimensions [mm]														Weight [kg]
	D	B1	B2	B3	B4	B5	B6	H1	H2	H3	H4	H5	L1	L2	
TBE80-13/2	250	195	232	121	132	195	235	127	200	644	195	235	440	220	69
TBE80-19/2	250	215	249	121	132	195	235	127	200	670	195	235	440	220	75
TBE80-23/2	300	260	271	121	132	195	235	127	240	787	195	235	440	220	96
TBE80-29/2	300	260	271	121	132	195	235	127	240	787	195	235	440	220	101
TBE80-30/2	350	314	382	167	175	195	235	145	275	918	195	235	500	250	178
TBE80-38/2	350	314	382	167	175	195	235	145	275	918	195	235	500	250	193
TBE80-47/2	350	314	382	167	175	195	235	145	275	962	195	235	500	250	211

TBE100-*/2



Performance

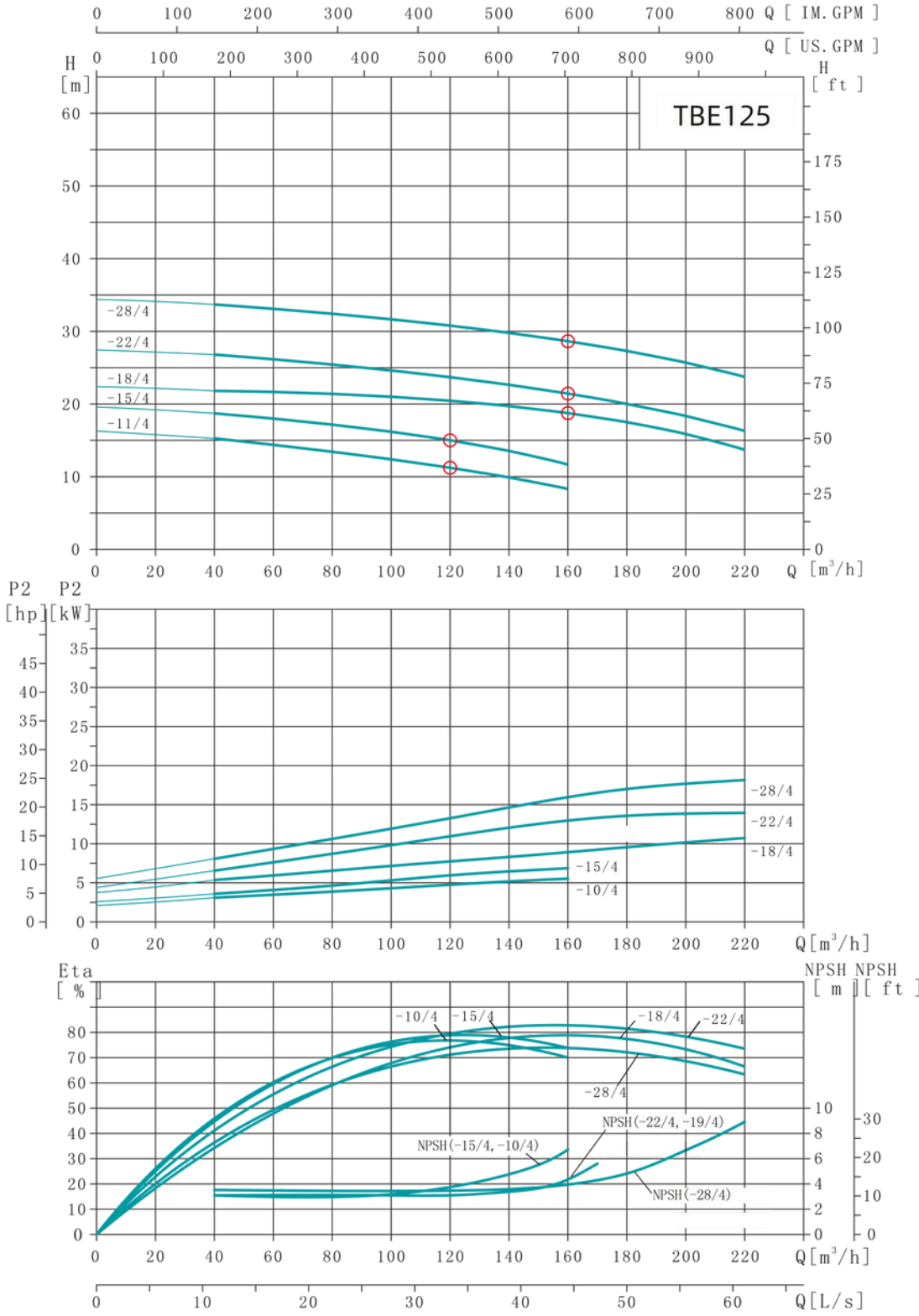
Model	Power (kw)	Q (m³/h)	10	20	30	40	50	60	70	80	90	100	110	120	130	140
TBE100-10/2	3	H(m)	15.4	15	14.5	13	11.8	10	9	7.3						
TBE100-15/2	4		19.2	19.1	18.7	17.7	16.7	15	14.4	12.8						
TBE100-17/2	5.5		22.2	21.5	20.9	20.5	19.7	18.6	17.8	17	15.5	13.6	11.1			
TBE100-22/2	7.5		26.7	26.3	25.8	25.1	24.4	23.8	22.9	22	21.1	19.6	17.5			
TBE100-27/2	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
TBE100-34/2	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
TBE100-40/2	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



Dimensions and Weight

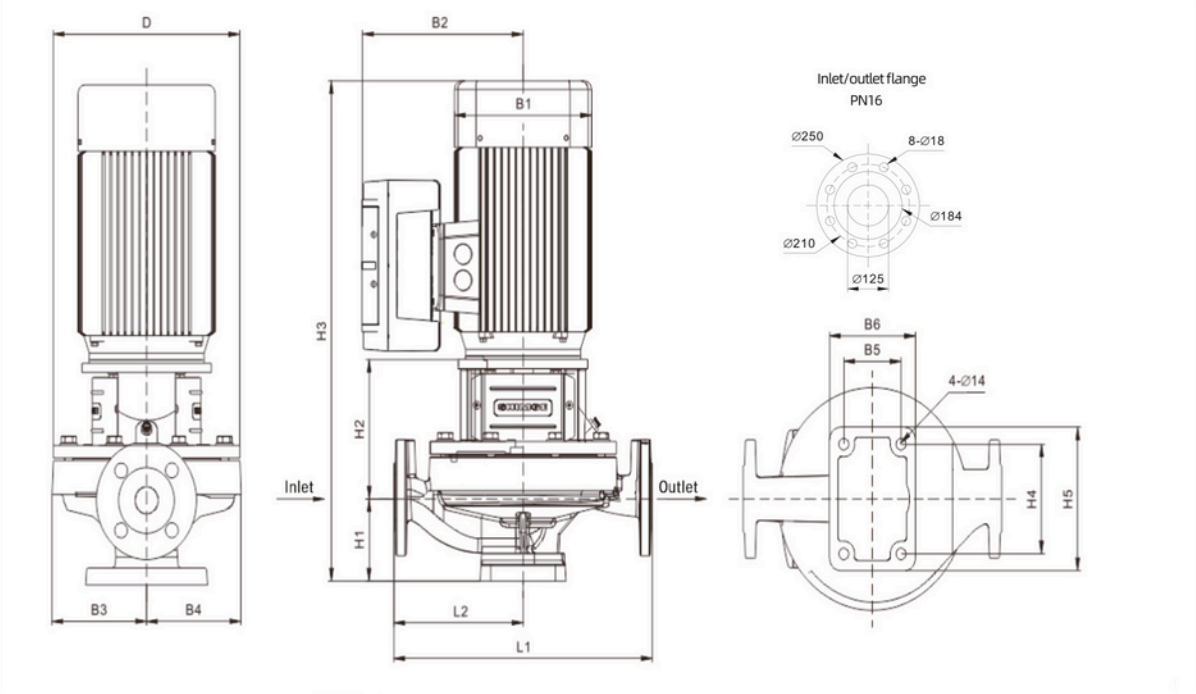
Model	Dimensions [mm]														Weight [kg]
	D	B1	B2	B3	B4	B5	B6	H1	H2	H3	H4	H5	L1	L2	
TBE100-10/2	250	195	232	121	148	195	235	135	190	642	195	235	450	225	72
TBE100-15/2	250	215	249	121	148	195	235	135	190	668	195	235	450	225	78
TBE100-17/2	300	260	271	121	148	195	235	170	230	820	195	235	500	250	104
TBE100-22/2	300	260	271	121	148	195	235	170	230	820	195	235	500	250	110
TBE100-27/2	350	314	382	123	148	195	235	170	265	933	195	235	550	275	172
TBE100-34/2	350	314	382	123	148	195	235	170	265	933	195	235	550	275	187
TBE100-40/2	350	314	382	167	167	290	350	170	270	982	290	350	550	275	227

TBE125-**-4



Performance

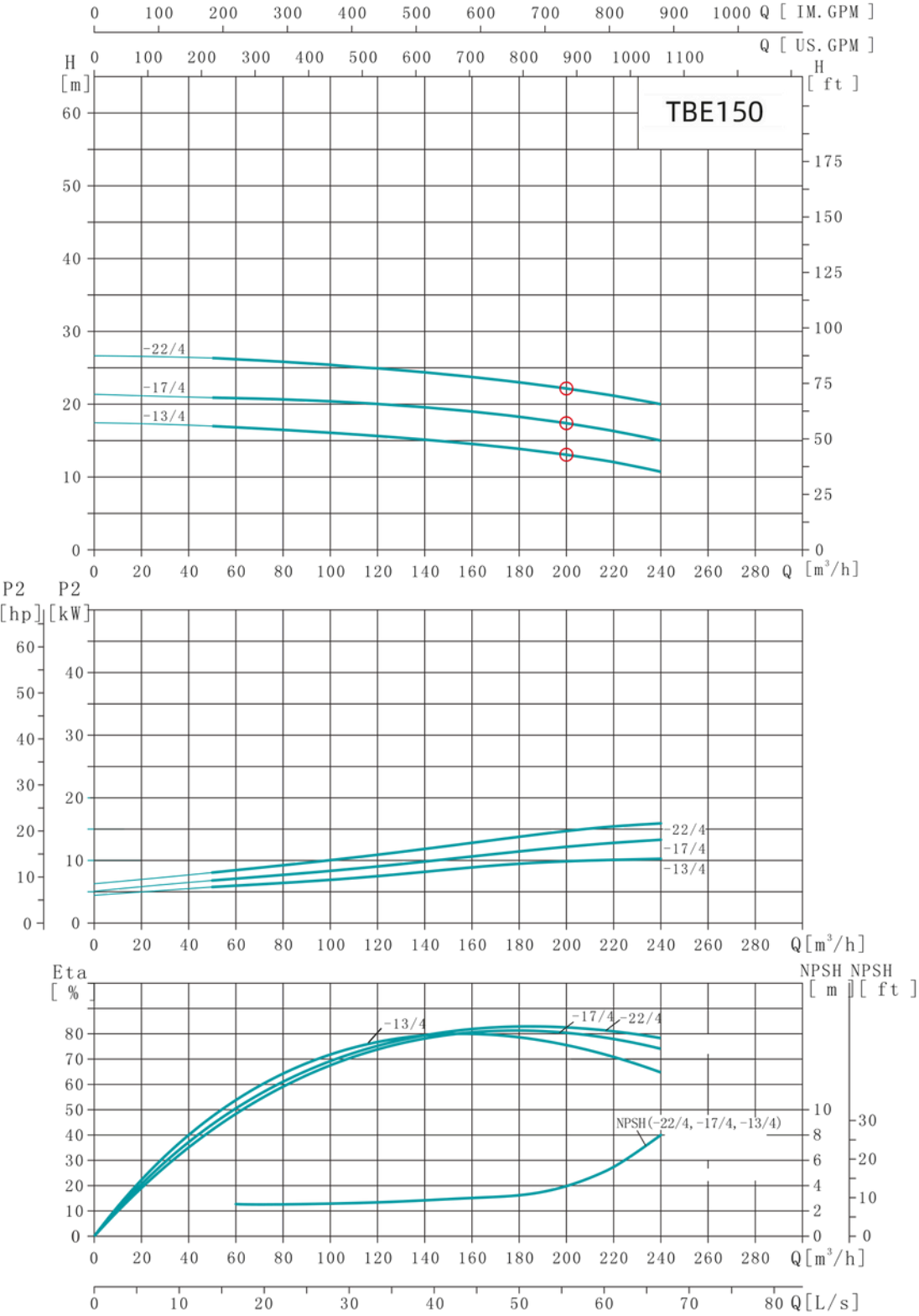
Model	Power (kw)	Q (m³/h)	40	60	80	100	120	140	160	180	200	220
TBE125-11/4	5.5	H(m)	15.3	14.6	14.1	13.1	11	10	8			
TBE125-15/4	7.5		18.4	18.1	17.4	16.4	15	13.4	11.8			
TBE125-18/4	11		22.7	22.6	22.4	21.8	21.1	20.2	18	17.7	16.5	14.3
TBE125-22/4	15		25.9	25.7	25.4	24.5	23.8	23.1	22	20.8	19.2	16.5
TBE125-28/4	18.5		33.5	33.2	32.6	31.4	30.9	29.2	28	27.1	26.3	23.7



Dimensions and Weight

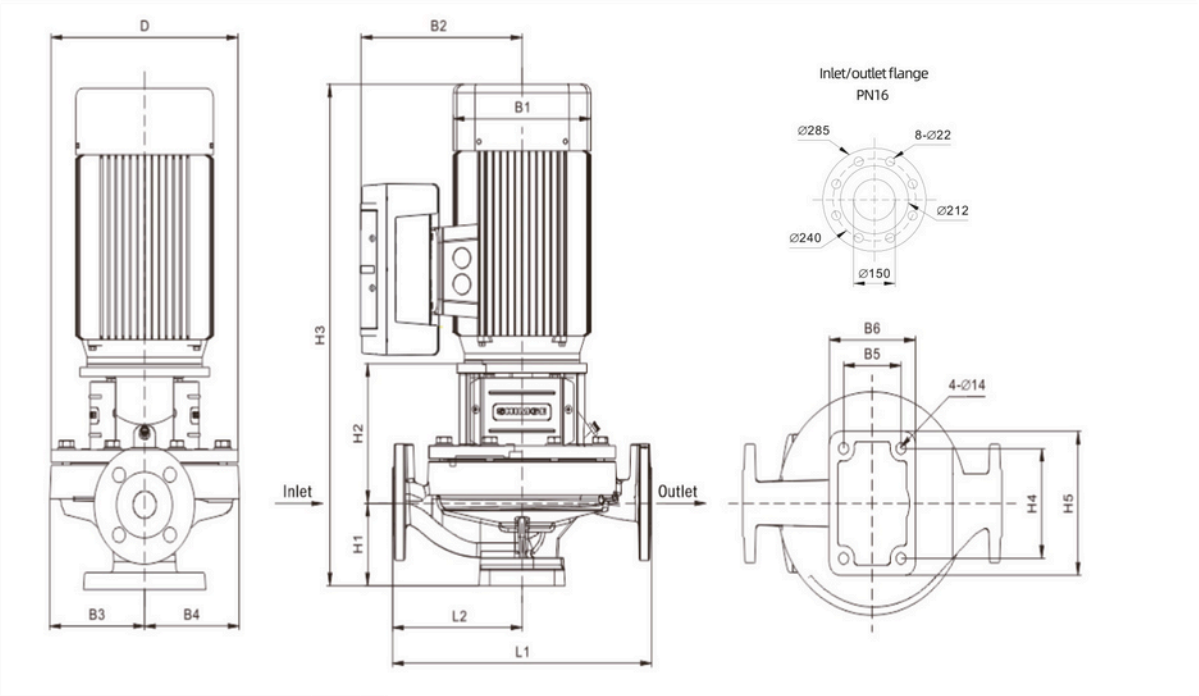
Model	Dimensions [mm]														Weight [kg]
	D	B1	B2	B3	B4	B5	B6	H1	H2	H3	H4	H5	L1	L2	
TBE125-11/4	300	260	271	170	205	290	350	245	235	900	290	350	620	310	156
TBE125-15/4	300	260	271	170	205	290	350	245	235	900	290	350	620	310	165
TBE125-18/4	350	314	382	191	225	290	350	245	290	1033	290	350	800	400	254
TBE125-22/4	350	314	382	191	225	290	350	245	290	1077	290	350	800	400	270
TBE125-28/4	350	355	398	219	248	290	350	245	285	1108	290	350	800	400	299

TBE150-*/4



Performance

Model	Power (kw)	Q (m³/h)	50	80	100	120	140	160	180	200	220	240
TBE150-13/4	11	H(m)	16.7	16.4	15.6	15.2	14.6	13.8	13.4	13	12.5	11
TBE150-17/4	15		20.7	20.3	19.9	19.6	18.8	17.9	17.4	17	16.1	15.2
TBE150-22/4	18.5		26.3	26.1	25.7	25.2	24.6	23.4	22.8	22	21.1	20.2



Dimensions and Weight

Model	Dimensions [mm]														Weight [kg]
	D	B1	B2	B3	B4	B5	B6	H1	H2	H3	H4	H5	L1	L2	
TBE150-13/4	350	314	382	202	242	290	350	245	275	1018	290	350	800	400	254
TBE150-17/4	350	314	382	202	242	290	350	245	275	1062	290	350	800	400	270
TBE150-22/4	350	355	398	231	265	290	350	245	285	1108	290	350	800	400	318