

General Catalogue

SHIMGE PUMP INDUSTRY (ZHEJIANG) CO., LTD.



Stainless Steel Multi-Stage Centrifugal Pump

50Hz



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SHIMGE PUMP INDUSTRY (ZHEJIANG) CO., LTD.

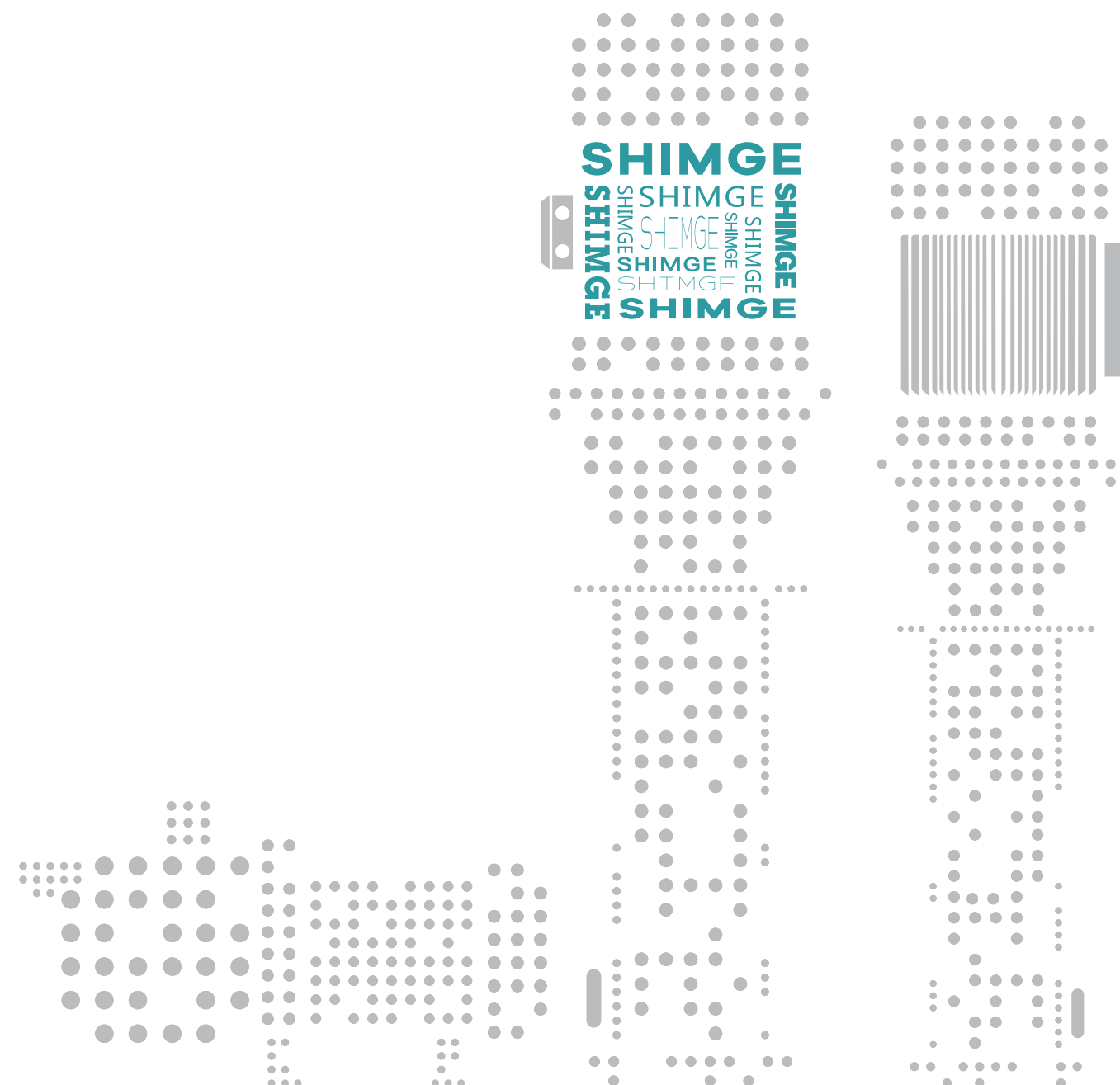
Add: Dayangcheng Industrial Zone, Daxi Town, Wenling City, Zhejiang Province, Ch

Tel: +86-576-86339960

Fax: +86-576-86337079

Email: admin@shimge.com

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CATALOG

Stainless Steel Multi-Stage Centrifugal Pump


○ BL/BLT

01



○ BL(T)-A

104



○ BW/BWJ

44



○ BWI

118



○ BW(J)E/BL(T)E

67




○ BWIE

135



○ PL(D)

77



○ AL(T)

145



○ YS

83





About Shimge

Founded in 1984 and headquartered in Daxi Town, Wenling City, Zhejiang Province, Shimge Pump Industry (Zhejiang) Co., Ltd. is a limited liability company specialized in the technical research and manufacturing of various pumps, control equipment, and other pump-related products. Shimge currently owns 6 major brands, 14 product lines, over 2,000 product specifications, and 13 subsidiaries.



Shimge's production base in HangZhou, Zhejiang Province



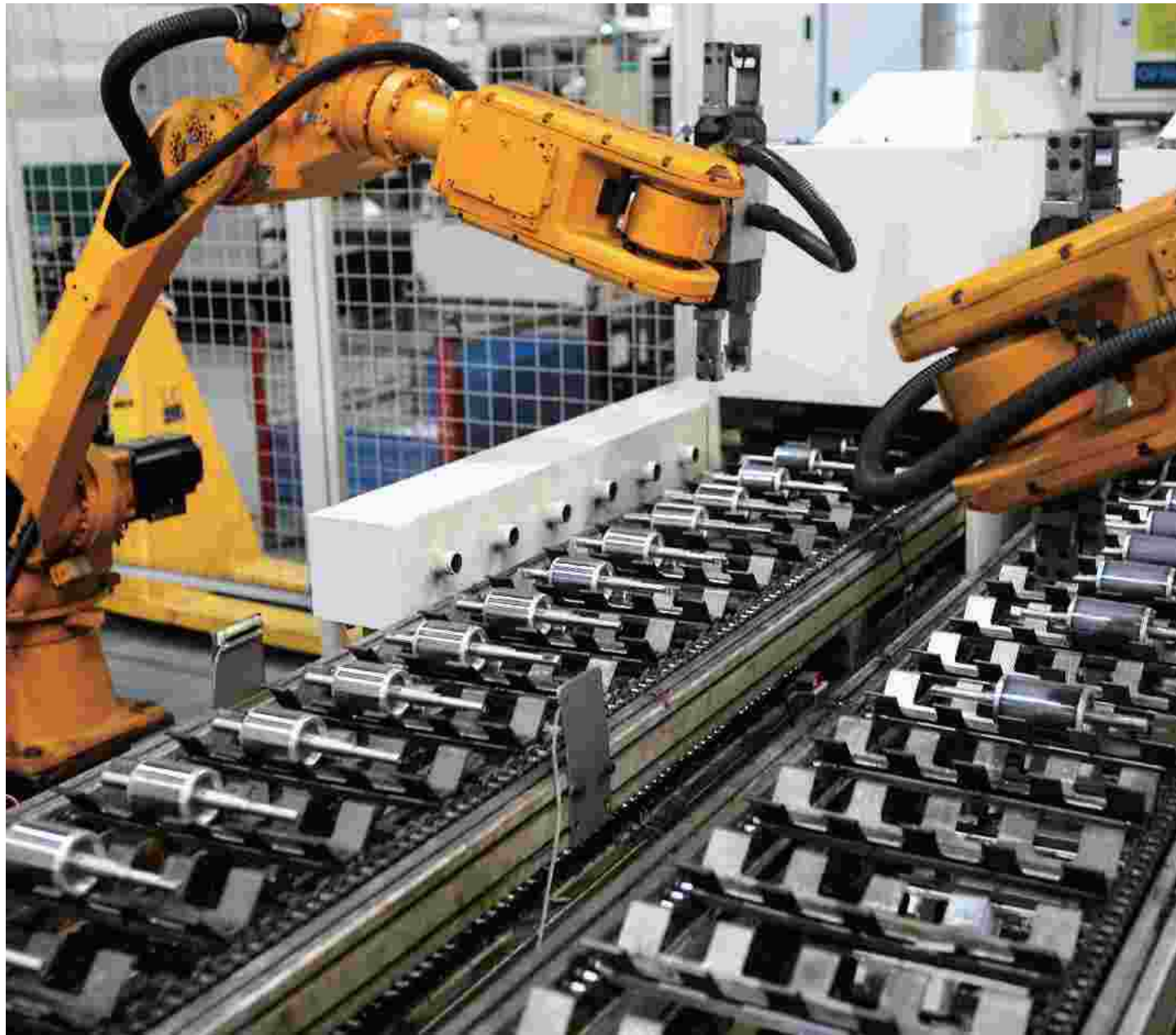
Shimge's casting parts production base in JiangSu Province

Shimge's casting production base in JiangXi Province

Shimge's casting production base in JiangSu Province



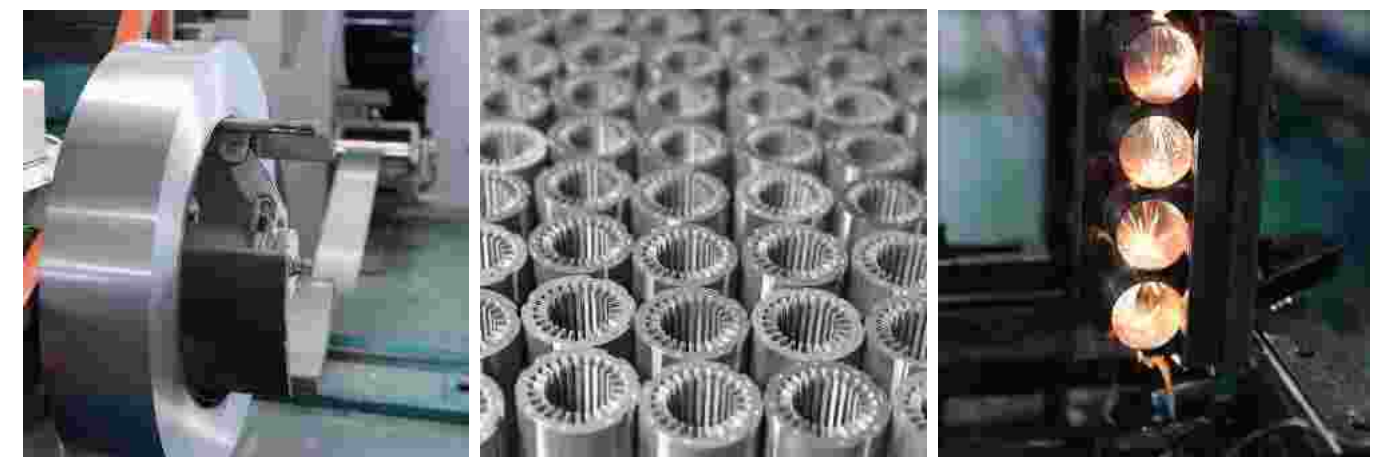
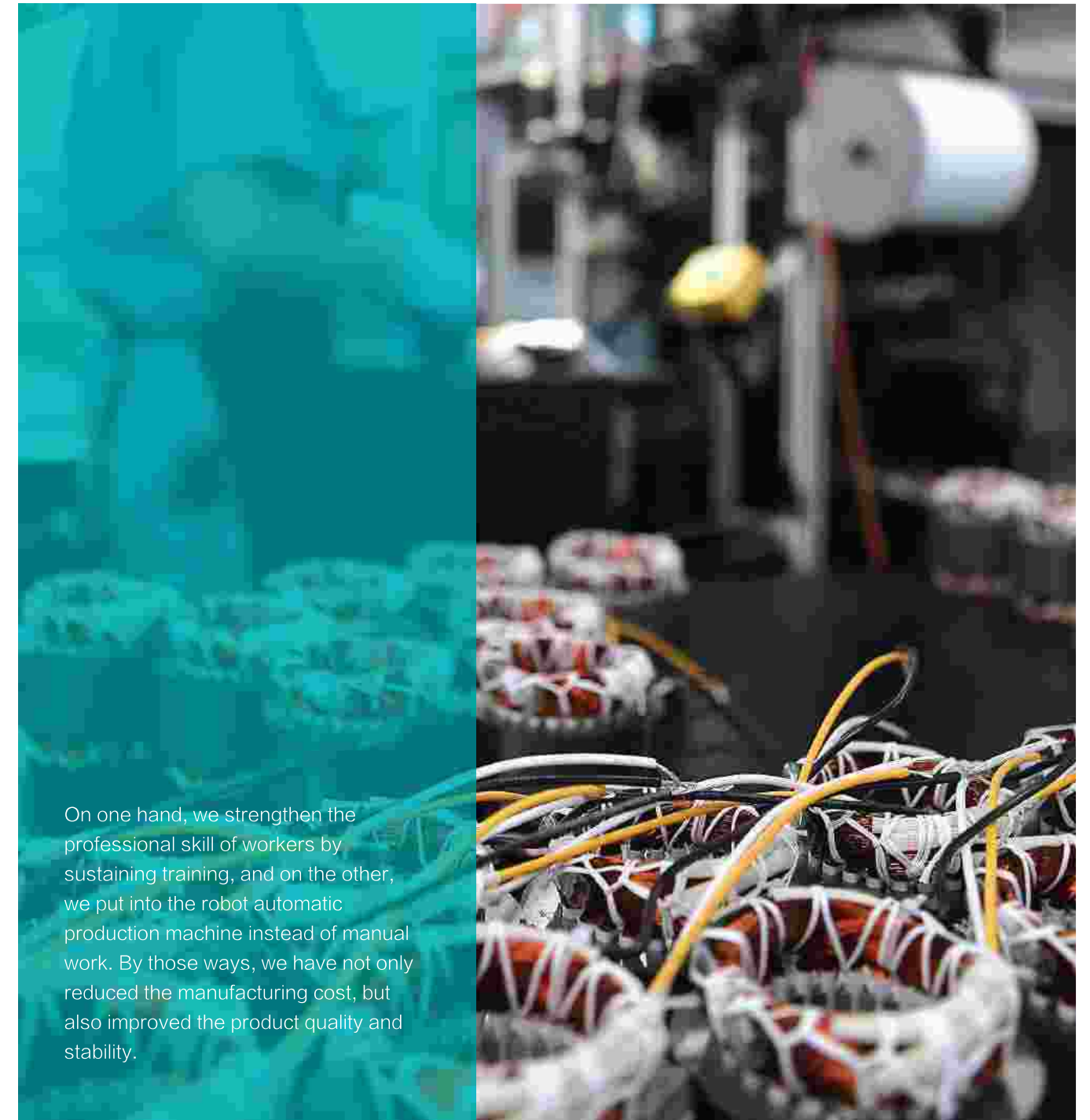
Shimge's production base in SanChiku, Wenling, Zhejiang Province



High Quality Production

FOR BETTER LIFE

Shimge sticks on the comprehensive innovation on R&D and production process which commits to improve the production process and efficiency.





Strict Quality Control

FOR BETTER LIFE

Since its establishment, Shimge has always actively promoted comprehensive “lean” quality and environment management, and has currently passed ISO9001, ISO14001 and OHSAS18001 certification, introduced excellent performance management in line with GB/T 19580 and established a sound quality assurance system.



SHIMGE has equipped an industry-leading physicochemical testing center, and its delivery performance inspection platform has reached a precision of grade B (grade 1) in the evaluation conducted by an authoritative agency. In addition, its products have passed GS, CE and UL certification, and met the specifications of the RoHS Directive.

Vertical Multi-Stage Centrifugal Pumps



BL(T)

High-efficiency standard motor, NSK- SKF bearings and cold-rolled 50ww800 silicon steel sheet made the pump high efficiency, low noise and maintenance-free. Totally enclosed shaft seal, IP55 protection grade, F class insulation grade, the special "double-lock" drive end bearing made the pump withstand higher inlet pressure.



Balanced & container-type shaft seal with all the parts assembled together, no axial rotating to prevent the shaft and rubber parts from wearing, with the characteristics of rapid changing, easy installation and safe operation. Dynamic sealing is made of cemented carbide materials and the static sealing is fluorine rubber material which make the mechanical seal to be high temperature resistance, long service life, easy changing and other significant characteristics.



Being produced by the most advanced international laser welding technology,, no eliminate welding, ensure the high intensity and efficiency. The processing technology: precision casting, CNC lathe, CNC machining center, the modern advanced technology such as the laser welding technique and processing equipment.



The built-in floating sealing ring of the pump cavity body could minimize the internal leakage produced by the differential pressure and prevent the energy consumption when liquid leaking back to the pump cavity body.



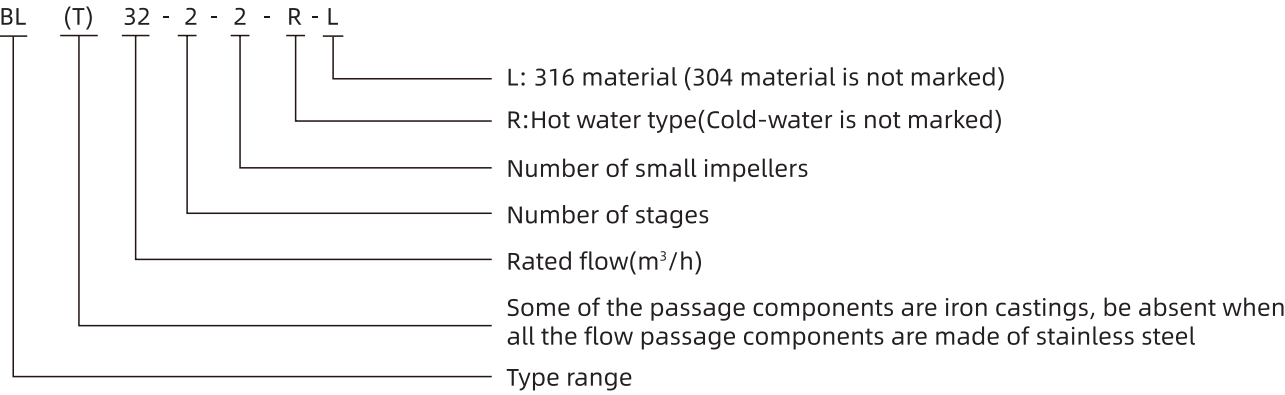
The pump core parts are designed to be multilevel interlocking, fastening nut locked, component system interlock assembly industry, to minimize the gap between the impeller per level, improve the efficiency of the impeller water conservancy, and ensure the stability, reliability and efficiency of the pump core components.



Cold extrusion spline shaft with good surface quality, high machining accuracy, at the same time improve the comprehensive mechanical properties of the shaft and the reliability of the pump



Model Instruction



Overview Of The Product

BL(T) series stainless steel multi-stage centrifugal pump (afterwards called pump) boasts characters of high efficiency, low noise, steady operation, etc. The pump set adopts the non-self-priming vertical multi-stage structure, which makes a compact whole, its installation easy, its operation and maintenance convenient.

Application Limits

- Medium temperature: normal type: 0°C ~ 68°C hot water type: 68°C ~ 120°C
- Ambient temperature: +40°C
- Advisable to use motor of higher power in case that the density or viscosity of medium is above that of water.
- pH: 5 to 8

Application Limits

Water supply	BL	BLT
Filtration and transfer at waterworks	●	●
Distribution from waterworks	●	●
Pressureboosting in mains	●	●
Pressure boosting in high-rise buildings, hotels, etc.	●	●
Pressure boosting for industrial water supply	●	●
Industry		
Pressure boosting	●	●
Process water systems	●	●
Washing and cleaning systems	●	●
Vehicle washing tunnels	●	●
Fire fighting systems	●	●
Liquid transfer		
Cooling and air-conditioning systems (refrigerants)	●	●
Boiler feed and condensate systems	●	●
Machine tools (cooling lubricants)	●	●
Aquafarming	●	●
Transfer		
Oil and alcohol	●	●
Glycol and coolants	●	●

Water treatment	BL	BLT
Ultra-filtration systems	●	○
Reverse osmosis systems	●	○
Softening, ionising, demineralizing systems	●	○
Distillation systems	●	○
Separators	●	○
Swimming baths	●	●
Irrigation		
Field irrigation (flooding)	●	●
Sprinkler irrigation	●	●
Drip-feed irrigation	●	●

Certificate

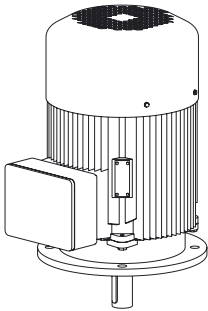


Electric Motor

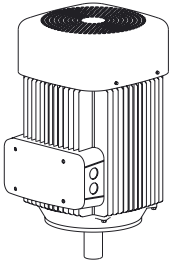
- Full-enclosed and ventilating two-pole standard motor
- Protection class: IP55
- Insulation class: F
- Standard voltage Single phase 220V-50Hz Three phase: 220/380V-50Hz

Energy Efficiency Standard (IEC60034-1)

Standard		Specific	motor structure
Power (kW)	Efficiency (2P, IE2)	Efficiency (2P, IE3)	
0.75	77.4	80.7	IMV18
1.1	79.6	82.7	
1.5	81.3	84.2	
2.2	83.2	85.9	
3	84.6	87.1	
4	85.8	88.1	
5.5	87	89.2	
7.5	88.1	90.1	IMV1
11	89.4	91.2	
15	90.3	91.9	
18.5	90.9	92.4	
22	91.3	92.7	
30	92	93.3	
37	92.5	93.7	
45	92.9	94	
55	93.2	94.3	
75	93.8	94.7	
90	94.1	95	
110	94.3	95.2	



IM V1



IM V18

Calculation Of minimum Inlet Pressure

If the pressure in pump is lower than the vapour pressure of medium, cavitation will occur, which will affect the performance of pump. To avoid the cavitation and ensure the pump inlet has a minimum pressure, maximum suction head should be calculated as following:

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

Pb: Atmospheric pressure, bar (In close pipeline system, it can be considered as the system pressure);

NPSH: Net positive suction head, m (Value at maximum flow of Q-NPSH curve);

Hf: Suction pipe line loss (Value at maximum flow of corresponding pipeline);

Hv: Medium vapour pressure, m (Medium vapour pressure at corresponding temperature, the default medium is water, as shown in figure2 on the right);

Hs: Safety margin, m, general value is 0.5.

Calculation result: if H is positive, the pump is installed in suction way, otherwise, it is installed in downdraft way.

Note: It is not necessary to do above calculation under general conditions. Only when we use pump in the following situations do we need to calculate the H:

- Medium temperature is high;
 - The velocity of flow is larger than rated value;
 - Suction head is big or inlet pipeline is long;
 - System pressure is small;
 - Inlet condition is bad.

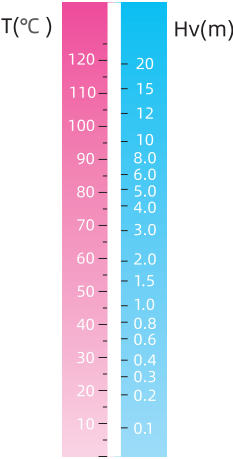
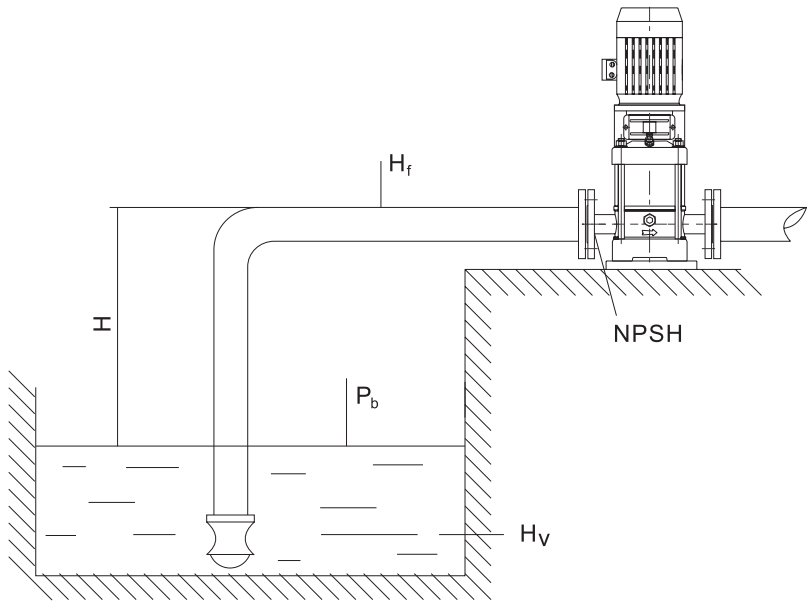


Fig. 2

Selection Of Pumps

- Duty point of the pump.
 - Dimensional data such as pressure loss as a result of height differences, friction loss in the pipework,
 - Pump efficiency etc.
 - Pump materials
 - Pump connections
 - Commonly used mechanical seal configuration tables

Duty point of the pump:

From a duty point it is possible to select a pump on the basis of the curve charts shown in "performance curves/technical" data.

Dimensional data:

When sizing a pump the following must be taken into accounting:

- Required flow and pressure at the draw-off point.
 - Friction loss in the pipework(Hf) (Refer to Fig.3) It may.
 - NPSH value.
 - Pressure loss as a result of height differences.
 - Best efficiency at the estimated duty point.
 - For calculation of the NPSH value, see corresponding curves chart.

Pump efficiency:

Before determining the best efficiency point, the operation pattern of the pump needs to be identified. If the pump expected to operate as the same duty point, then select a BL pump which is operating at a duty point corresponding with the best efficiency of the pump.

As the pump is sized on the basis of the highest possible flow, it is important always to have the duty point to the right on the efficiency curve(eta) in order to keep efficiency high when the flow drops.

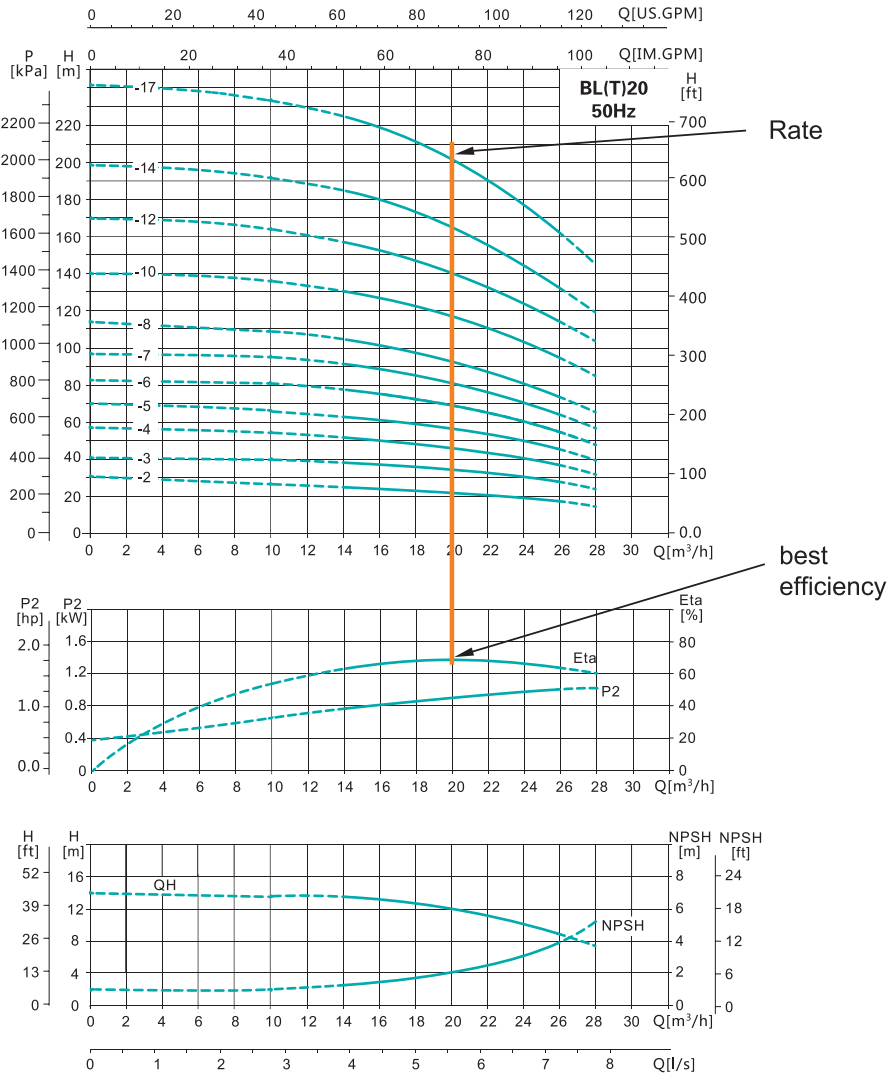


Fig.03

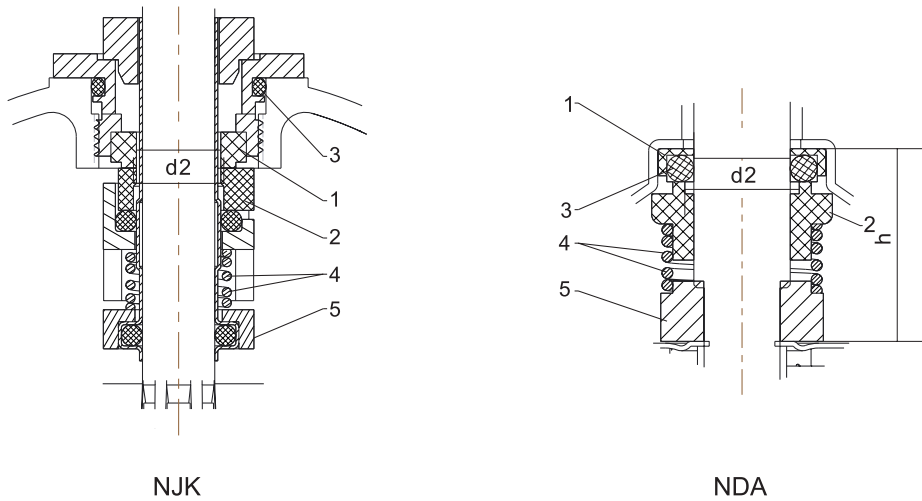
■ Pump material:

Selection of pump connection depend on the rated pressure and pipe work. the pump offer a wide range of texible connection such as:

- Loose round flange
- Pipe thread
- Oval flange
- Round flange



■ Commonly used mechanical seal configuration tables



Mechanical seal type	Pump model	d2
NJK	BL(T)2/4	12
	BL(T)8/12/16/20	16
	BL(T)32/45/64/90	22
NDA	BW(J)2/4	16
	BW(J)8/16	20

Maximum Work Pressure

Model	Curve No.
BL(T)2,4	2
BL(T)8,12,16,20	3
BL(T)32-2-2~BL(T)32-7	1
BL(T)32-8-2~BL(T)32-12	4
BL(T)32-13~BL(T)32-15-2	5
BL(T)45-2-2~BL(T)45-6	1
BL(T)45-7-2~BL(T)45-9	4
BL(T)45-10-2~BL(T)45-13-2	5
BL(T)64-2-2~BL(T)64-5-2	1
BL(T)64-5-1~BL(T)64-8	4
BL(T)90-2-2~BL(T)90-4-2	1
BL(T)90-4~BL(T)90-6	4
BL(T)120, 150, 200	6

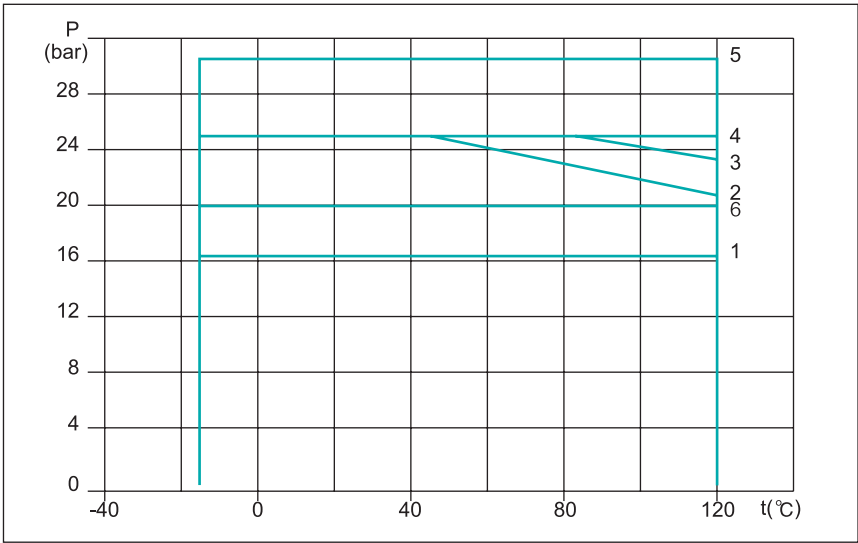
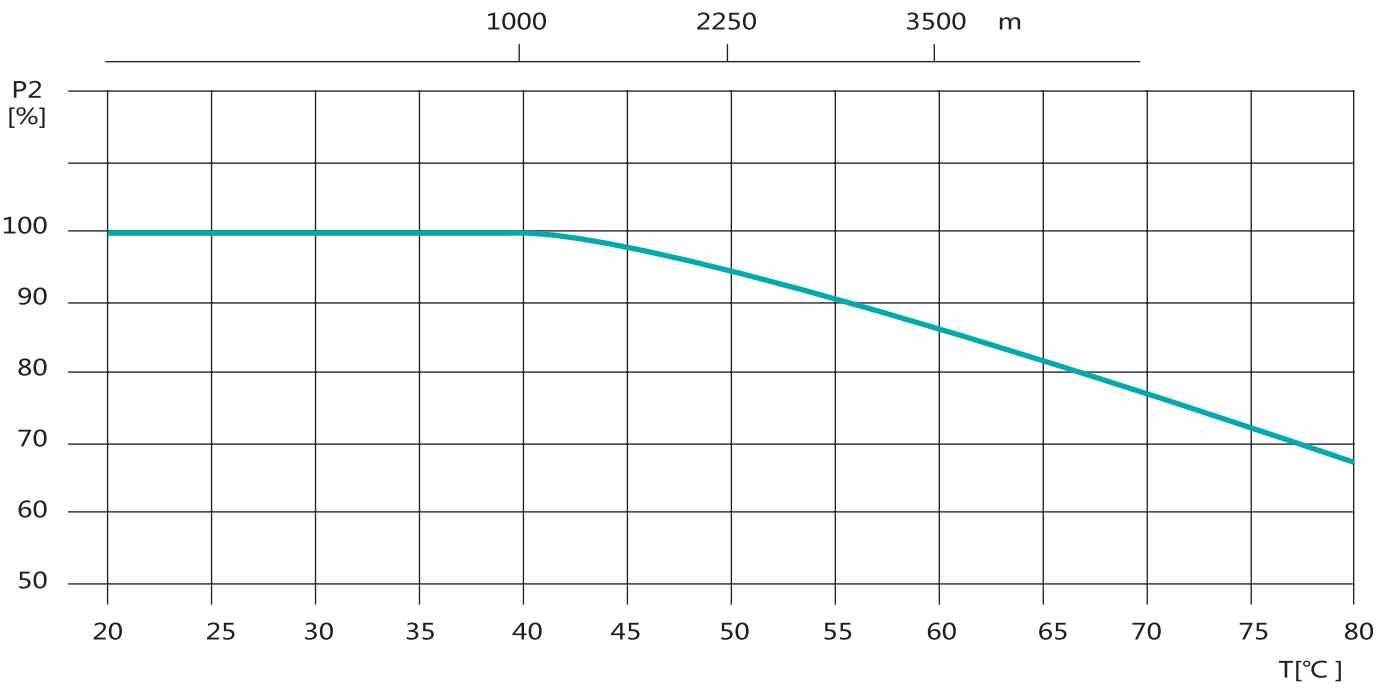


Fig. 4

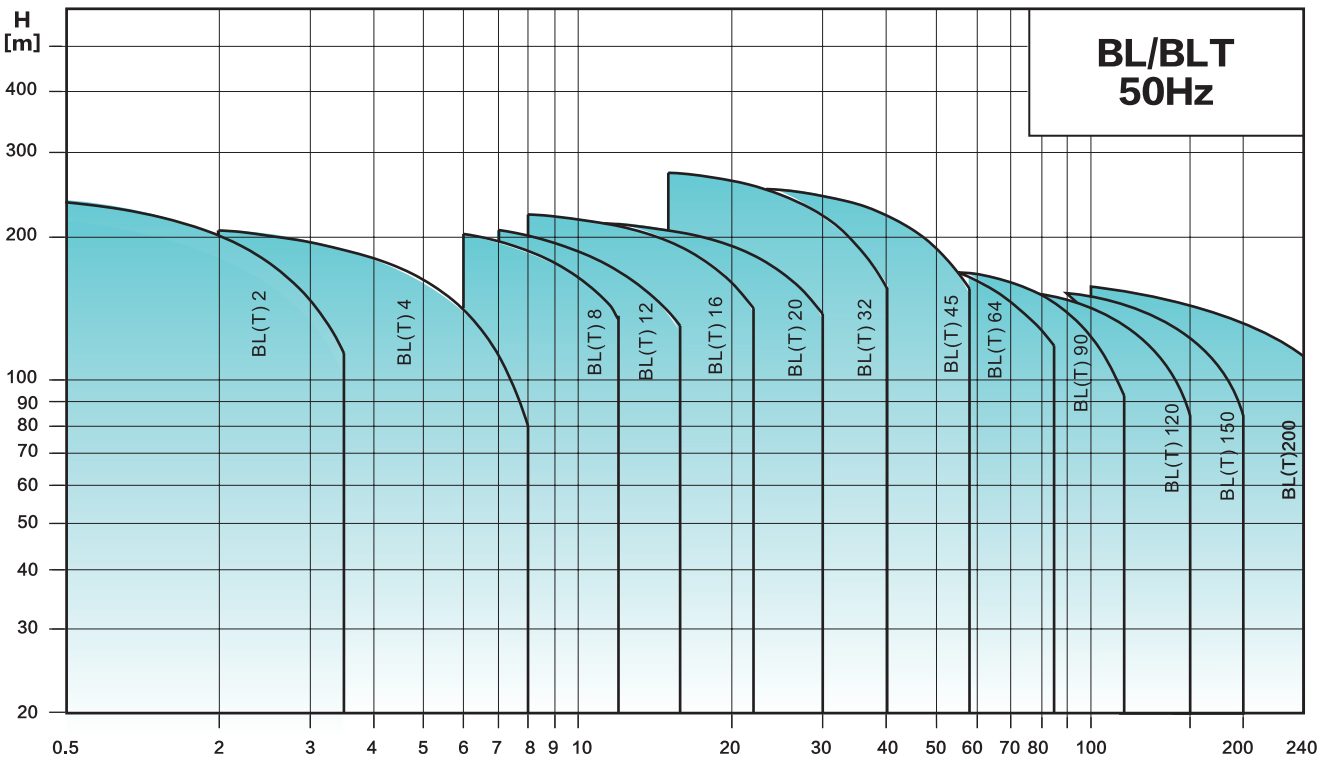
The limits of pressure and temperature are shown in the following fig.4,the pressure and temperature must be in the shown in the fig. 4.

Maximum Ambient Temperature

When the pump is operating in the place where ambient temperature is higher than 40°C or altitude is higher than 1000m,the output power of motor P2 will decrease because of poor cooling caused by low air density.Therefore,in that case,the pump should be equipped with high-power motor.

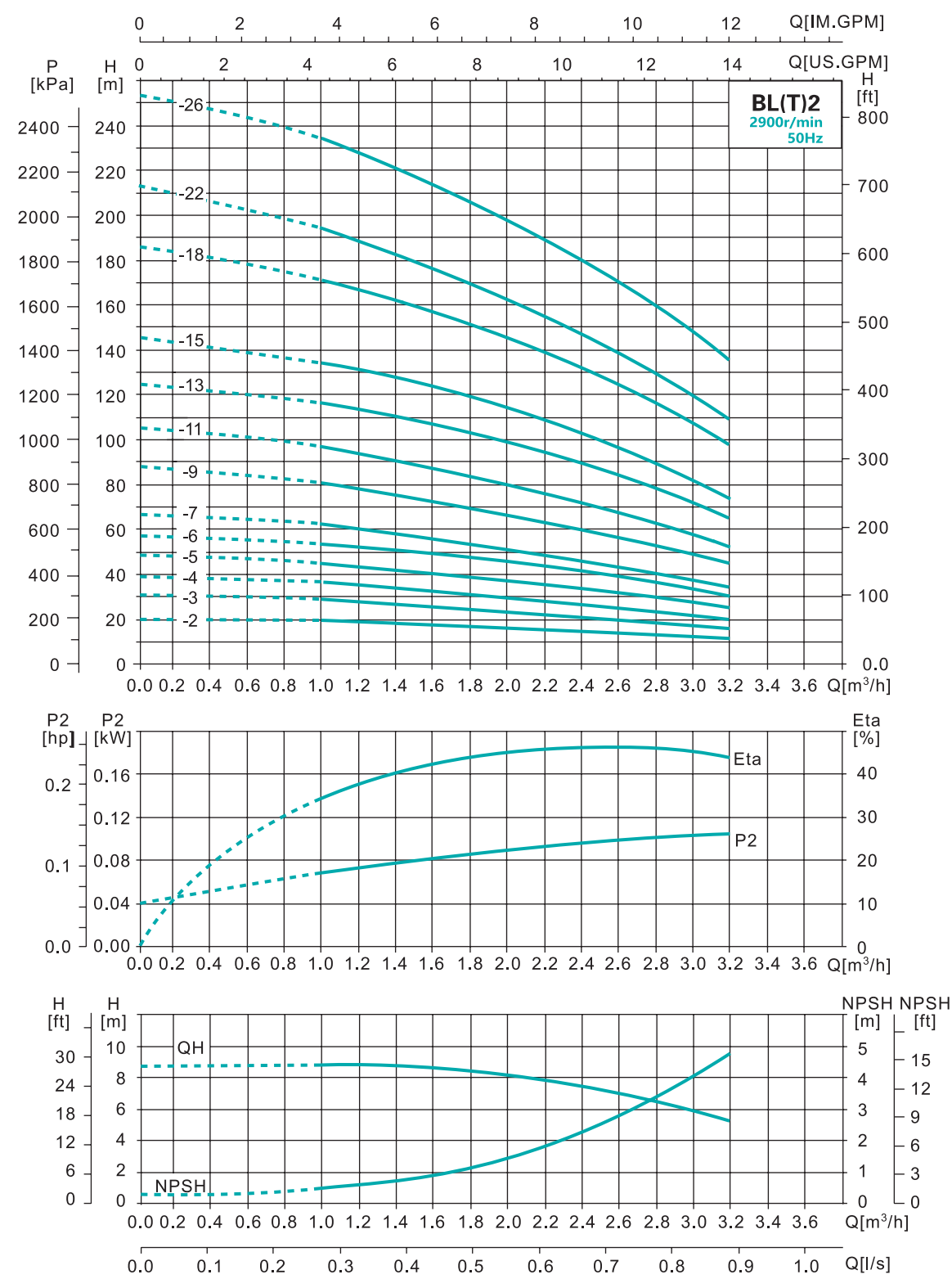


Performance Range



Model	BL(T)2	BL(T)4	BL(T)8	BL(T)12	BL(T)16	BL(T)20	BL(T)32	BL(T)45	BL(T)64	BL(T)90	BL(T)120	BL(T)150	BL(T)200
Rated Flow (m³/h)	2	4	8	12	16	20	32	45	64	90	120	150	200
Flow Range (m³/h)	1~3.5	1.5~7	5~11	7~16	8~20	14~28	16~40	25~55	30~80	50~110	60~150	80~180	100~240
Max.Pressure (bar)	23	21	21	22	22	23	27	28	22	16	17	16	16
Motor Power (kW)	0.37~3	0.37~4	0.75~7.5	1.5~11	2.2~15	2.2~18.5	3~30	5.5~45	7.5~45	11~45	11~75	11~75	18.5~110
Max.Efficiency (%)	45	57	62	63	66	67	70	74	75	76	75	76	79
DIN Flange	DN25	DN32	DN40	DN50	DN50	DN50	DN65	DN80	DN100	DN100	DN125	DN125	DN150
Pipe Thread	R ₂ 1 ¹ / ₄	R ₂ 1 ¹ / ₄	Rc2,on request										
Oval flange	G1 or G1 ¹ / ₄												
Temperature Range	Standard Type 0 ~ +68°C Hot Water Type 68°C ~ +120°C												

Performance Curve - BL(T)2



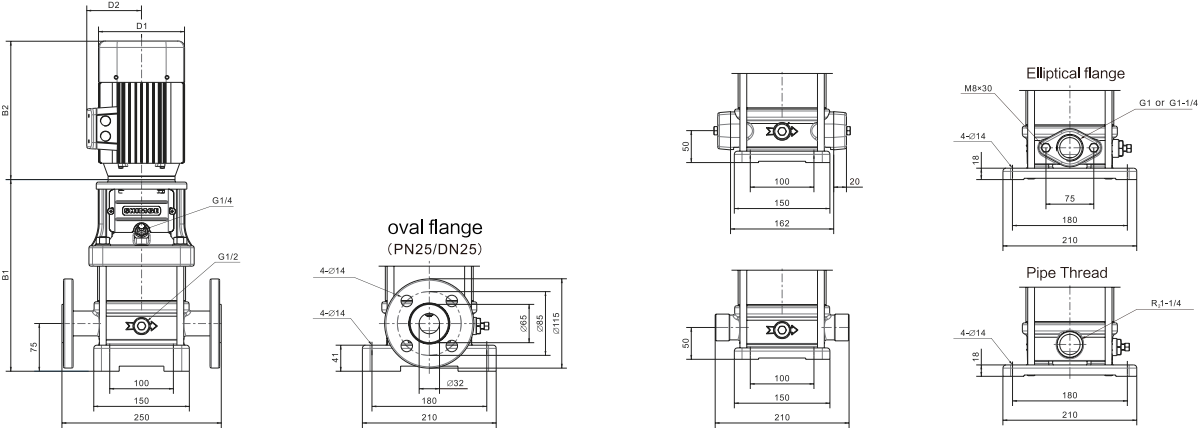
It is recommended to be used within lift range.

Performance Table

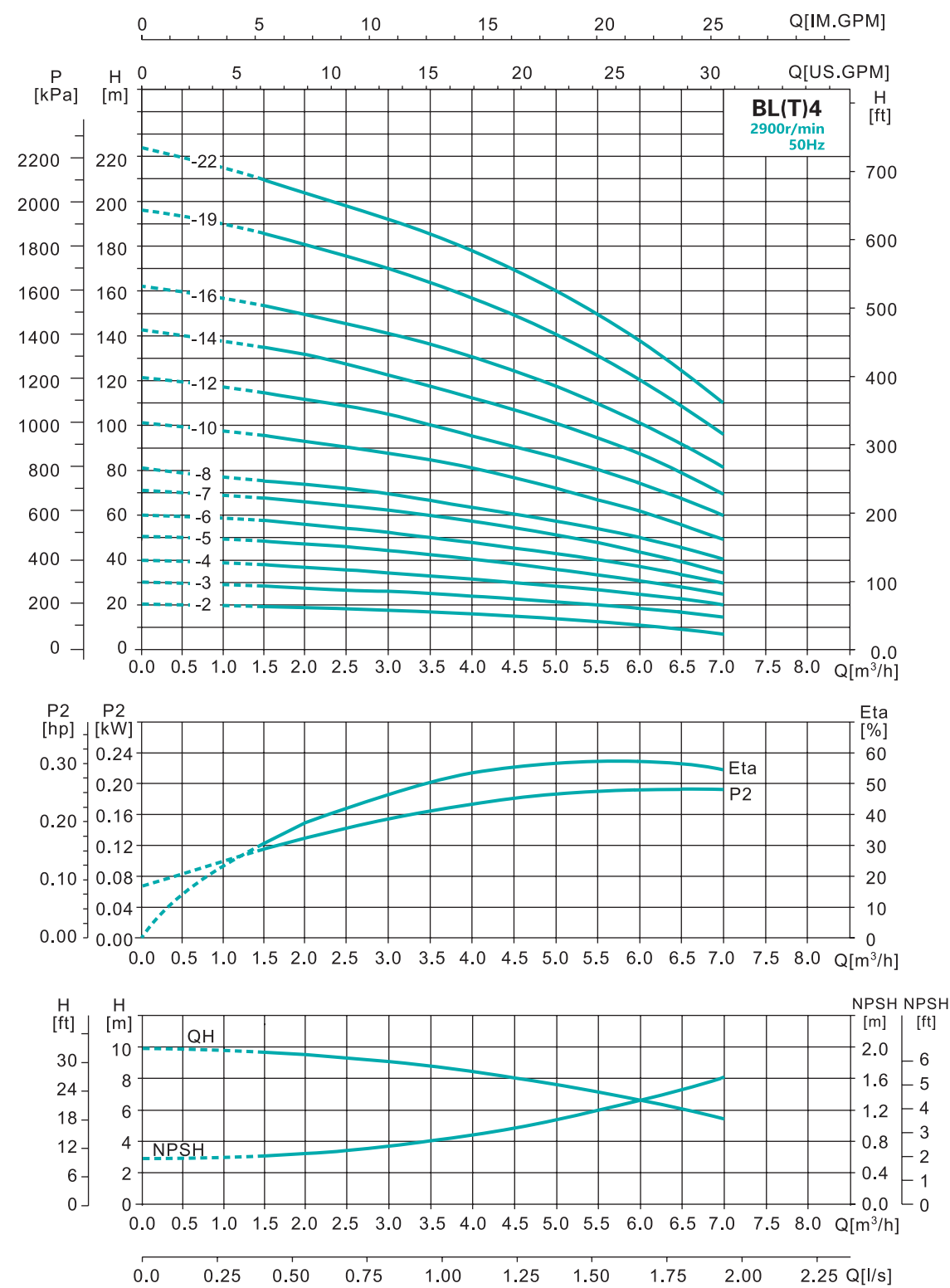
Model	Power		Caliber	Q (m³/h)	1	1.2	1.6	2	2.4	2.8	3.2	Head Range (m)
	kW	HP										
BL(T)2-2	0.37	0.5	DN25	H(m)	18	17	16	15	13	12	10	18~10
BL(T)2-3	0.37	0.5			27	26	24	22	20	18	15	27~15
BL(T)2-4	0.55	0.75			36	35	33	30	26	24	20	36~20
BL(T)2-5	0.55	0.75			45	43	40	37	33	30	24	45~24
BL(T)2-6	0.75	1			53	52	50	45	40	36	30	53~30
BL(T)2-7	0.75	1			63	61	57	52	47	41	35	63~35
BL(T)2-9	1.1	1.5			80	78	73	67	61	54	45	80~45
BL(T)2-11	1.1	1.5			98	95	89	82	73	64	54	98~54
BL(T)2-13	1.5	2			116	114	106	98	89	78	65	116~65
BL(T)2-15	1.5	2			134	130	123	112	100	90	73	134~73
BL(T)2-18	2.2	3			161	157	148	136	121	108	91	161~91
BL(T)2-22	2.2	3			197	192	180	165	148	130	110	197~110
BL(T)2-26	3	4			232	228	214	198	179	158	130	232~130

Dimensions

Model	Dim.(mm)					N.W.(kg)(BL/BLT)
	B1(BL/BLT)	B2	B1+B2(BL/BLT)	D1	D2	
BL(T)2-2	274/277	228	502/505	140	103	21/23
BL(T)2-3	274/277	228	502/505	140	103	21/23
BL(T)2-4	292/295	228	520/523	140	103	23/25
BL(T)2-5	310/313	228	538/541	140	103	23/25
BL(T)2-6	338/341	235	573/576	161	112	27/29
BL(T)2-7	356/359	235	591/594	161	112	28/29
BL(T)2-9	392/395	235	627/630	161	112	30/32
BL(T)2-11	428/431	235	663/666	161	112	31/33
BL(T)2-13	474/477	280	754/757	168	114	35/36
BL(T)2-15	510/513	280	790/793	168	114	36/38
BL(T)2-18	564/567	280	844/847	168	114	39/41
BL(T)2-22	636/639	280	916/919	168	114	43/44
BL(T)2-26	718/721	307	1025/1028	194	132	51/52



Performance Curve - BL(T) 4



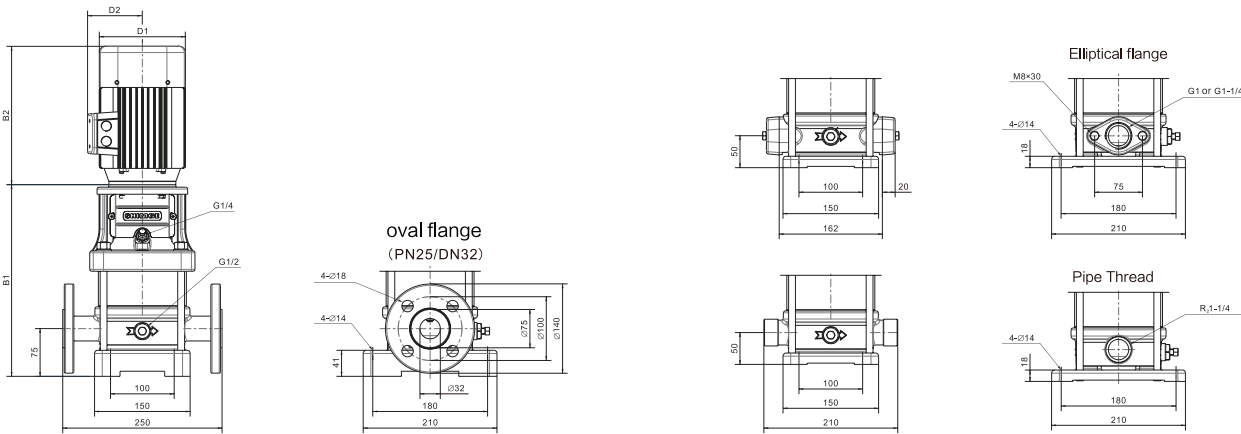
It is recommended to be used within lift range.

Performance Table

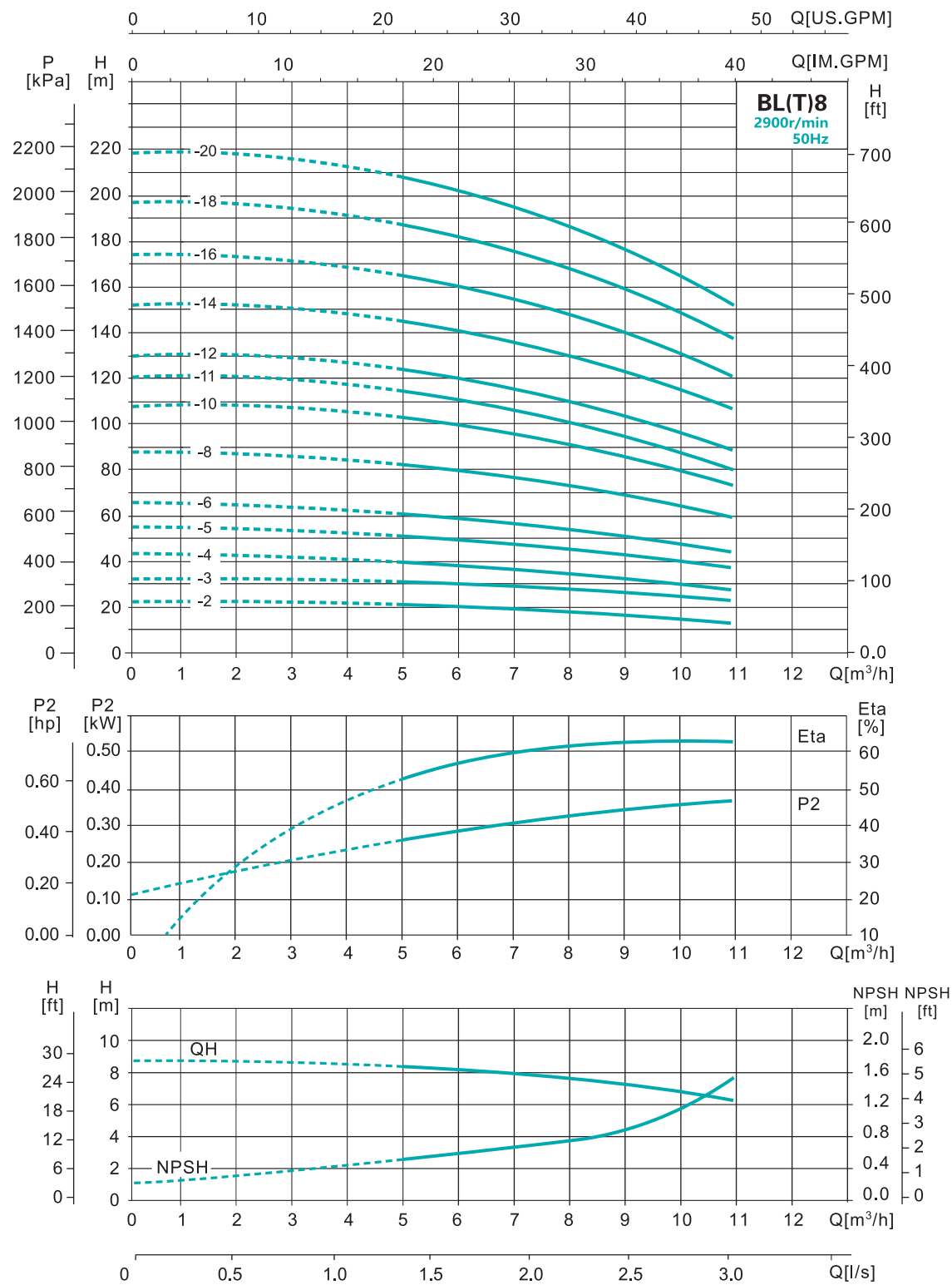
Model	Power		Caliber	Q (m³/h)	1.5	2	3	4	5	6	7	Head Range (m)
	kW	HP										
BL(T)4-2	0.37	0.5	DN32	H(m)	19	18	17	15	13	10	8	19~8
BL(T)4-3	0.55	0.75			28	27	26	24	20	18	13	28~13
BL(T)4-4	0.75	1			38	36	34	32	27	24	19	38~19
BL(T)4-5	1.1	1.5			47	45	43	40	34	31	23	47~23
BL(T)4-6	1.1	1.5			56	54	52	48	41	37	28	56~28
BL(T)4-7	1.5	2			66	63	61	56	48	43	33	66~33
BL(T)4-8	1.5	2			74	72	70	64	55	50	38	74~38
BL(T)4-10	2.2	3			96	90	87	81	71	62	48	96~48
BL(T)4-12	2.2	3			114	108	104	95	85	75	58	114~58
BL(T)4-14	3	4			136	126	122	112	101	89	68	136~68
BL(T)4-16	3	4			152	144	140	129	115	101	78	152~78
BL(T)4-19	4	5.5			183	171	168	153	137	122	93	183~93
BL(T)4-22	4	5.5			211	200	192	178	160	138	108	211~108

Dimensions

Model	Dim.(mm)					N.W.(kg)(BL/BLT)
	B1(BL/BLT)	B2	B1+B2(BL/BLT)	D1	D2	
BL(T)4-2	274/277	228	502/505	140	103	22/23
BL(T)4-3	301/304	228	529/532	140	103	23/25
BL(T)4-4	338/341	235	573/576	161	112	28/29
BL(T)4-5	365/368	235	600/603	161	112	30/32
BL(T)4-6	392/395	235	627/630	161	112	30/35
BL(T)4-7	429/432	280	709/712	168	114	34/36
BL(T)4-8	456/459	280	736/739	168	114	34/31
BL(T)4-10	510/513	280	790/793	168	114	38/39
BL(T)4-12	564/567	280	844/847	168	114	39/41
BL(T)4-14	628/631	307	935/938	194	132	48/50
BL(T)4-16	682/685	307	989/992	194	132	49/51
BL(T)4-19	763/766	355	1118/1121	215	138	54/56
BL(T)4-22	844/847	355	1199/1202	215	138	56/57



Performance Curve - BL(T) 8



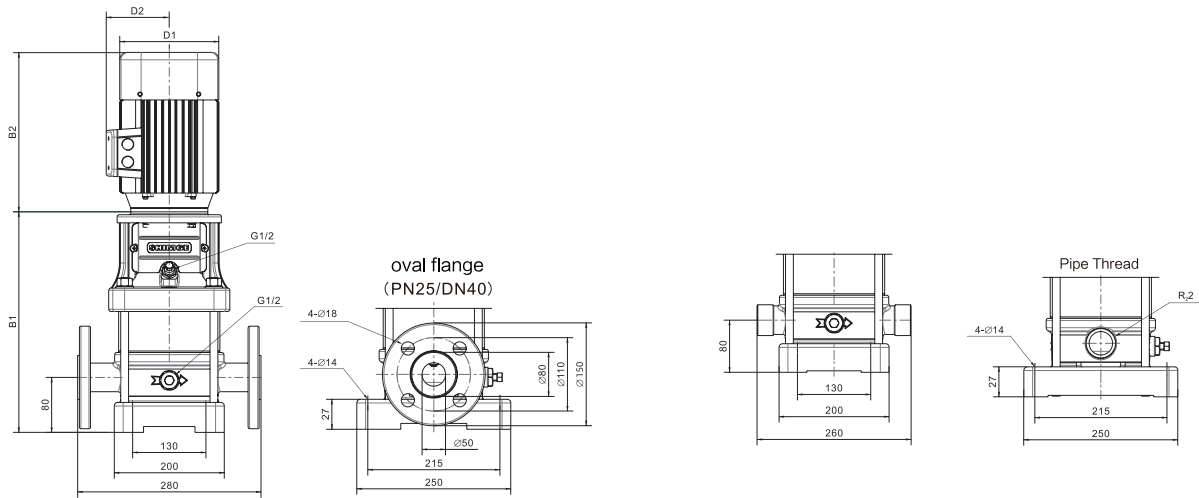
It is recommended to be used within lift range.

Performance Table

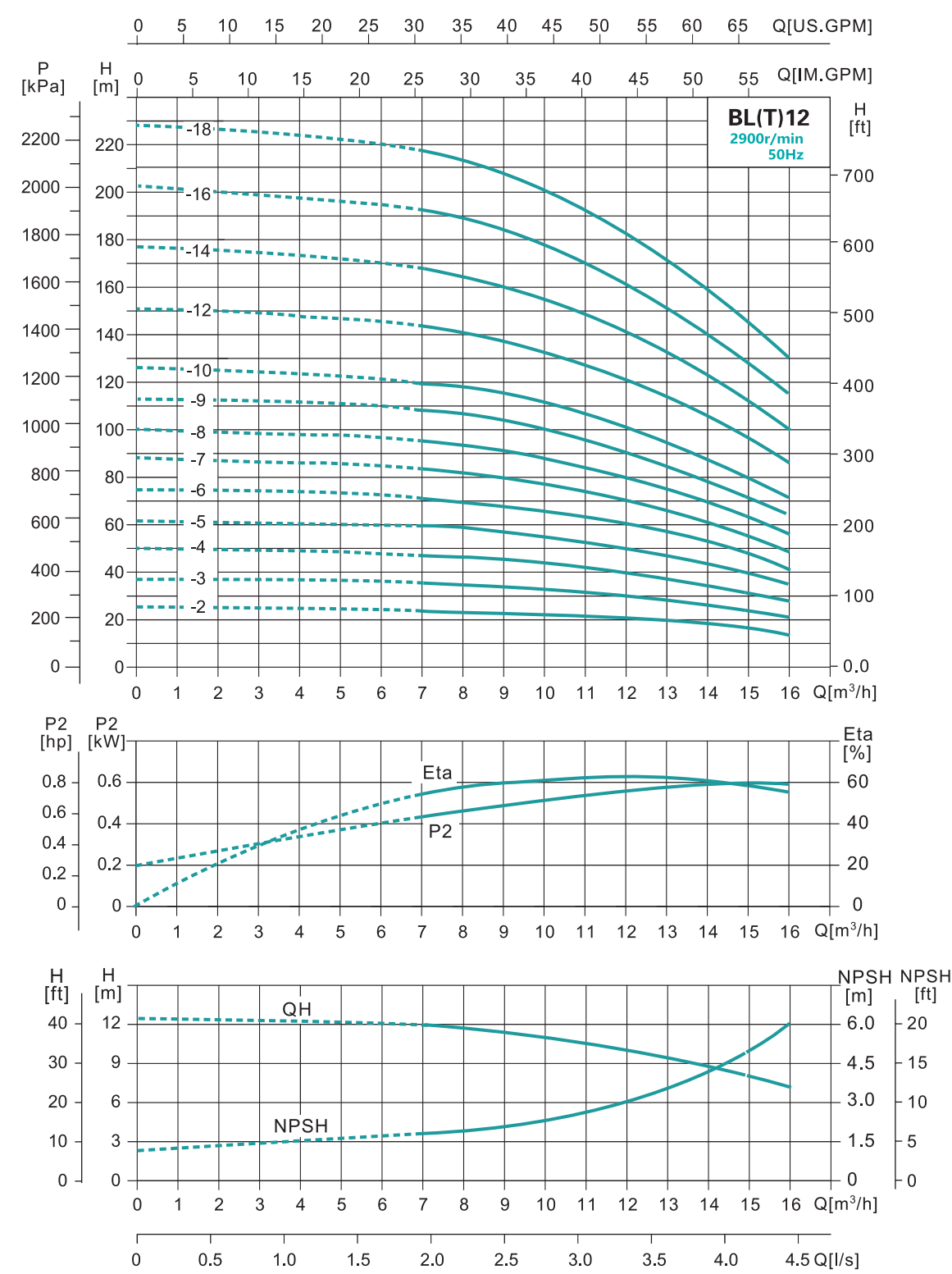
Model	Power		Caliber	Q (m³/h)	5	6	7	8	9	10	11	Head Range (m)
	kW	HP										
BL(T)8-2	0.75	1	DN40	H(m)	20	19.5	19	18	17	16	14	20~14
BL(T)8-3	1.1	1.5			30	29.5	28.5	27	25	24	21	30~21
BL(T)8-4	1.5	2			41	39.5	38	36	34	32	28	41~28
BL(T)8-5	2.2	3			52	50	48	45	42	40	36	52~36
BL(T)8-6	2.2	3			62	60	57	54	51	48	43	62~43
BL(T)8-8	3	4			83	80	77	73	69	65	58	83~58
BL(T)8-10	4	5.5			104	100	97	92	87	81	73	104~73
BL(T)8-11	4	5.5			114	110	106	101	95	86	80	114~80
BL(T)8-12	4	5.5			124	120	116	111	104	92	87	124~87
BL(T)8-14	5.5	7.5			145	141	136	130	122	113	102	145~102
BL(T)8-16	5.5	7.5			166	161	156	148	139	130	118	166~118
BL(T)8-18	7.5	10			187	182	175	167	157	146	134	187~134
BL(T)8-20	7.5	10			208	202	195	186	175	163	150	208~150

Dimensions

Model	Dim.(mm)					N.W.(kg)(BL/BLT)
	B1(BL/BLT)	B2	B1+B2(BL/BLT)	D1	D2	
BL(T)8-2	362/374	235	597/609	161	112	36/40
BL(T)8-3	394/406	235	629/641	161	112	39/42
BL(T)8-4	431/443	280	711/723	168	114	43/46
BL(T)8-5	463/475	280	743/755	168	114	47/50
BL(T)8-6	495/507	280	775/787	168	114	48/51
BL(T)8-8	569/581	307	876/888	194	132	57/61
BL(T)8-10	633/645	355	988/1000	215	138	62/66
BL(T)8-11	665/677	355	1020/1032	215	138	63/67
BL(T)8-12	697/709	355	1052/1064	215	138	65/68
BL(T)8-14	785/797	430	1215/1227	260	160	90/93
BL(T)8-16	849/861	430	1279/1291	260	160	92/95
BL(T)8-18	913/925	430	1343/1355	260	160	100/103
BL(T)8-20	977/989	430	1407/1419	260	160	102/105



Performance Curve - BL(T) 12



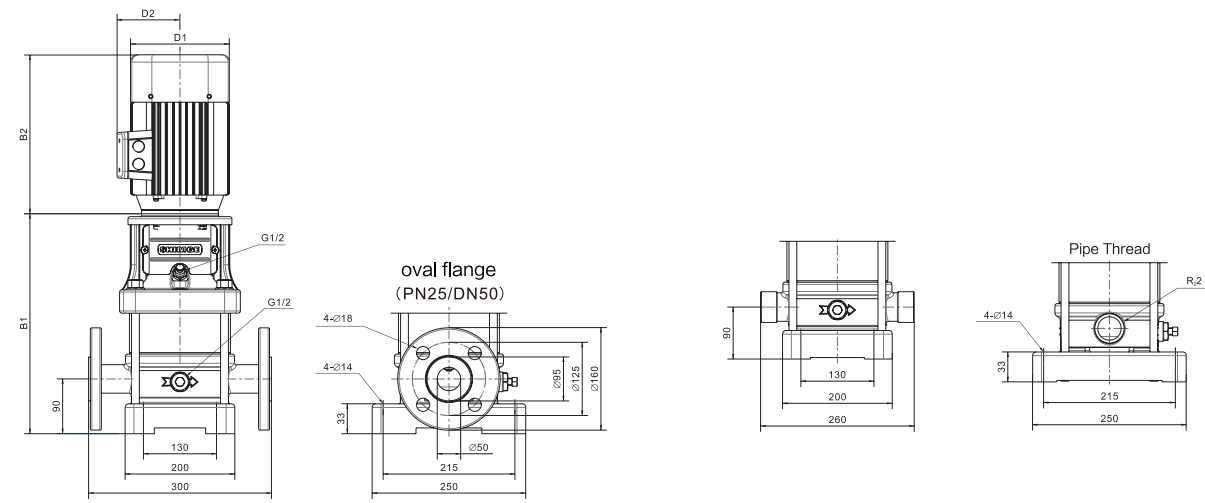
It is recommended to be used within lift range.

Performance Table

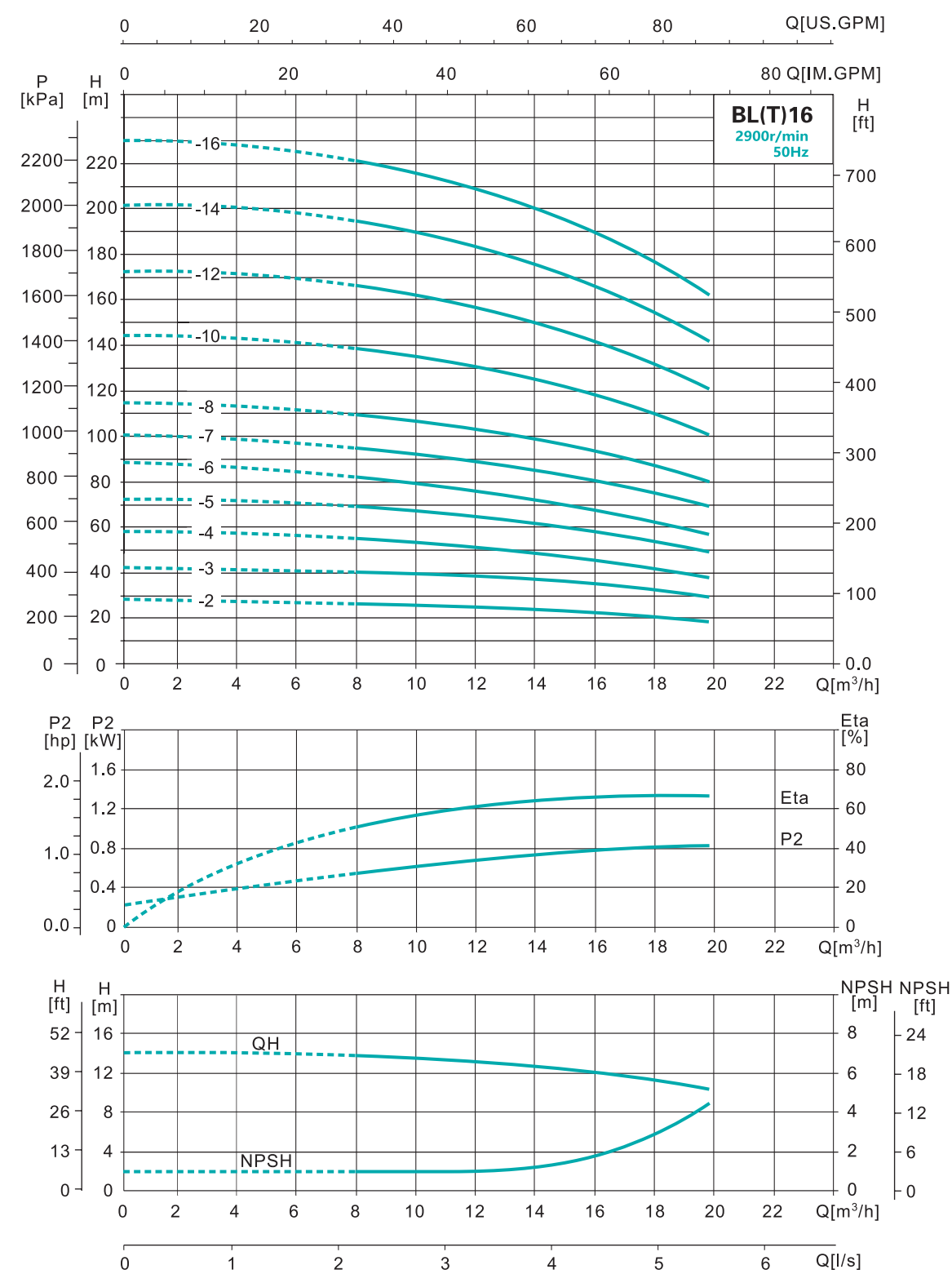
Model	Power		Caliber	Q (m³/h)	7	8	10	12	14	15	16	Head Range (m)
	kW	HP										
BL(T)12-2	1.5	2	DN50	H(m)	23.5	23	22	20	17	15	14	23.5~14
BL(T)12-3	2.2	3			35.5	35	33	30	26	23	21	35.5~21
BL(T)12-4	3	4			47	46	44	40	34	31	28	47~28
BL(T)12-5	3	4			59.5	58	55	50	43	39	35	59.5~35
BL(T)12-6	4	5.5			71.5	70	66	60	52	47	42	71.5~42
BL(T)12-7	5.5	7.5			83.5	82	77	70	61	55	49	83.5~49
BL(T)12-8	5.5	7.5			95.5	94	88	80	70	63	56	95.5~56
BL(T)12-9	5.5	7.5			108	106	100	91	79	71	64	108~64
BL(T)12-10	7.5	10			120	118	111	101	88	80	72	120~72
BL(T)12-12	7.5	10			143.5	141	133	121	106	96	86	143.5~86
BL(T)12-14	11	15			168	165	155	141	124	112	100	168~100
BL(T)12-16	11	15			192.5	189	178	162	142	128	115	192.5~115
BL(T)12-18	11	15			217	213	202	183	160	145	130	217~130

Dimensions

Model	Dim.(mm)					N.W.(kg)(BL/BLT)
	B1(BL/BLT)	B2	B1+B2(BL/BLT)	D1	D2	
BL(T)12-2	377/389	280	657/669	168	114	42/45
BL(T)12-3	409/421	280	689/701	168	114	46/49
BL(T)12-4	451/463	307	758/770	194	132	54/57
BL(T)12-5	483/495	307	790/802	194	132	55/59
BL(T)12-6	515/527	355	870/882	215	138	59/63
BL(T)12-7	571/583	430	1001/1013	260	160	84/87
BL(T)12-8	603/615	430	1033/1045	260	160	85/88
BL(T)12-9	635/647	430	1065/1077	260	160	86/89
BL(T)12-10	667/679	430	1097/1109	260	160	93/96
BL(T)12-12	731/743	430	1161/1173	260	160	95/98
BL(T)12-14	826/838	498	1324/1336	314	250	164/167
BL(T)12-16	890/902	498	1388/1400	314	250	166/169
BL(T)12-18	954/966	498	1452/1464	314	250	168/171



Performance Curve - BL(T) 16



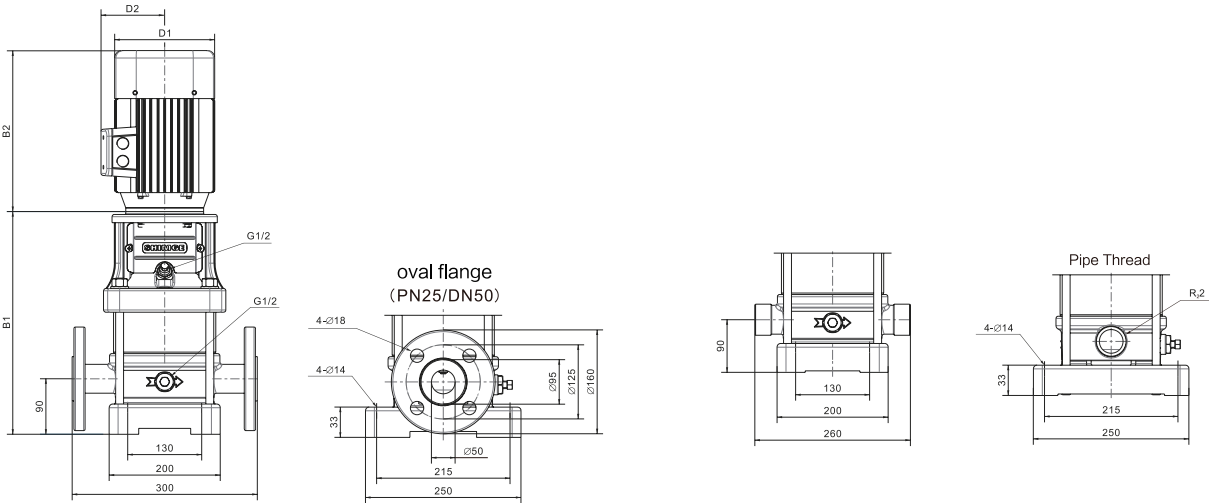
It is recommended to be used within lift range.

Performance Table

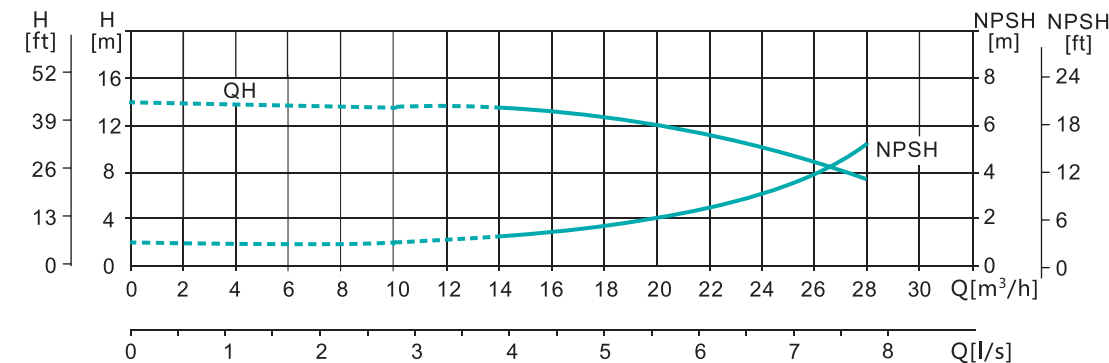
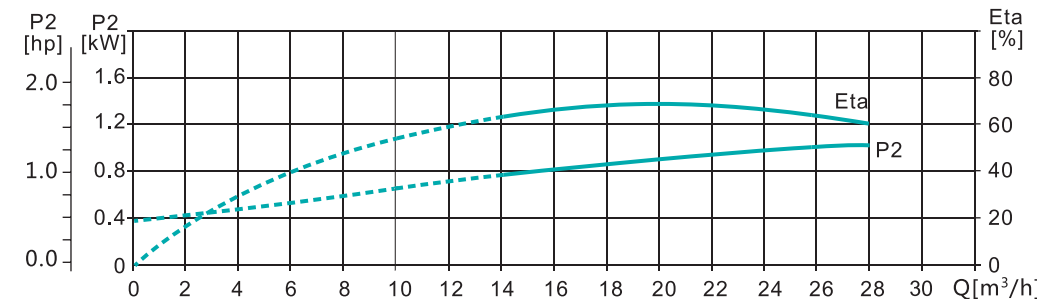
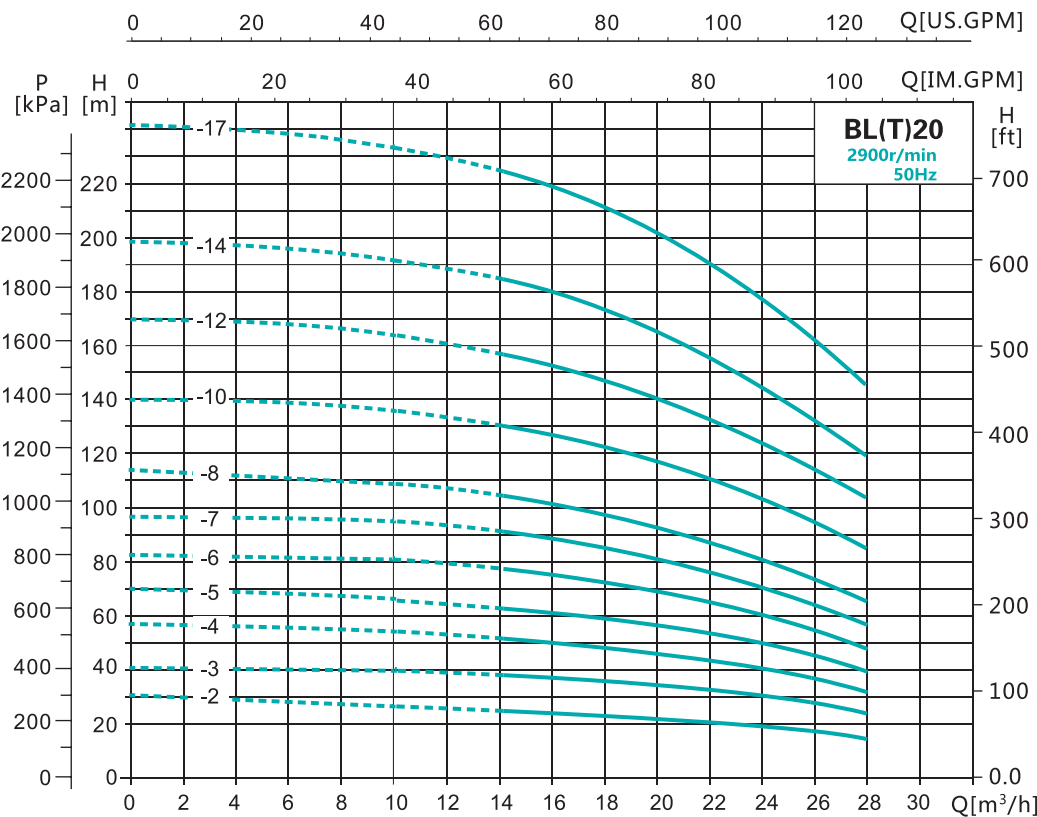
Model	Power		Caliber	Q (m³/h)	8	10	12	14	16	18	20	Head Range (m)
	kW	HP										
BL(T)16-2	2.2	3	DN50	H(m)	27	26	25	24	22	21	19	27~19
BL(T)16-3	3	4			41	40	38	37	34	32	29	41~29
BL(T)16-4	4	5.5			54	53	52	49	46	43	38	54~38
BL(T)16-5	5.5	7.5			68	67	65	62	58	54	48	68~48
BL(T)16-6	5.5	7.5			82	80	78	74	70	64	58	82~58
BL(T)16-7	7.5	10			96	95	91	87	82	76	68	96~68
BL(T)16-8	7.5	10			110	108	104	99	94	86	77	110~77
BL(T)16-10	11	15			138	136	131	125	118	109	97	138~97
BL(T)16-12	11	15			166	162	157	150	141	130	116	166~116
BL(T)16-14	15	20			194	190	184	175	166	152	136	194~136
BL(T)16-16	15	20			222	217	210	200	189	174	156	222~156

Dimensions

Model	Dim.(mm)					N.W.(kg)(BL/BLT)
	B1(BL/BLT)	B2	B1+B2(BL/BLT)	D1	D2	
BL(T)16-2	403/415	280	683/695	168	114	45/48
BL(T)16-3	458/470	307	765/777	194	132	53/57
BL(T)16-4	503/515	355	858/870	215	138	58/61
BL(T)16-5	572/584	430	1002/1014	260	160	83/86
BL(T)16-6	617/629	430	1047/1059	260	160	84/87
BL(T)16-7	662/674	430	1092/1104	260	160	91/94
BL(T)16-8	707/719	430	1137/1149	260	160	92/96
BL(T)16-10	828/840	498	1326/1338	314	250	162/165
BL(T)16-12	918/930	498	1416/1428	314	250	165/168
BL(T)16-14	1008/1020	498	1506/1518	314	250	182/186
BL(T)16-16	1098/1110	498	1596/1608	314	250	185/188



Performance Curve - BL(T) 20



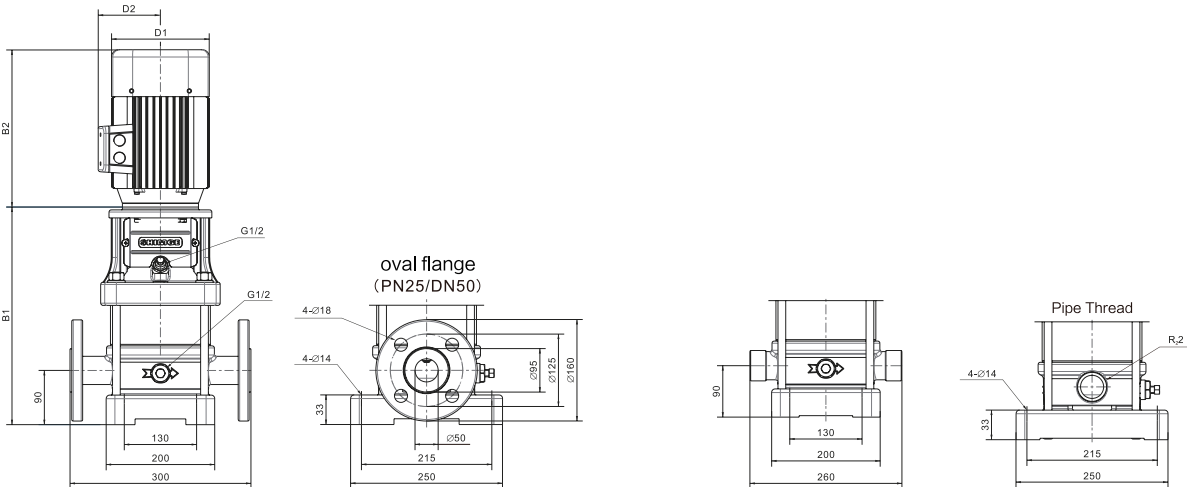
It is recommended to be used within lift range.

Performance Table

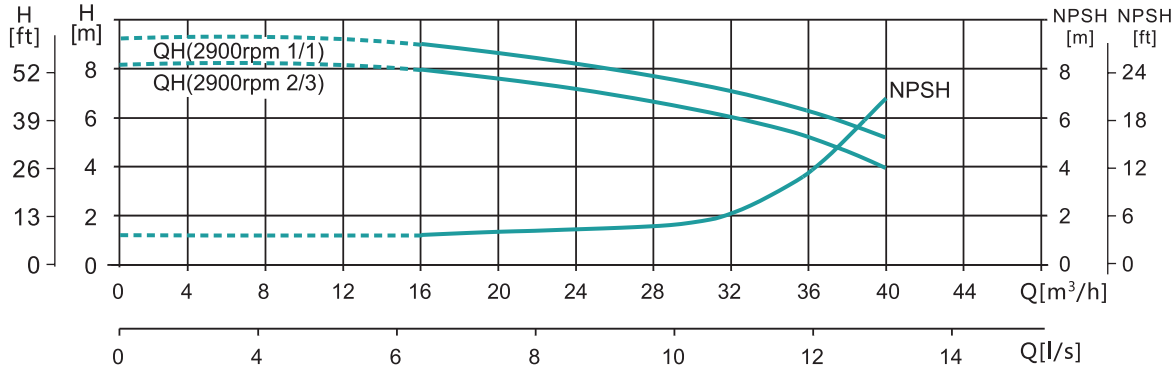
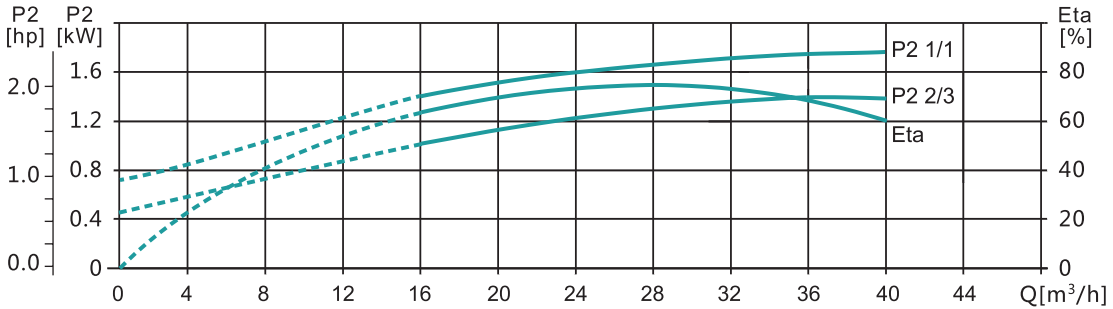
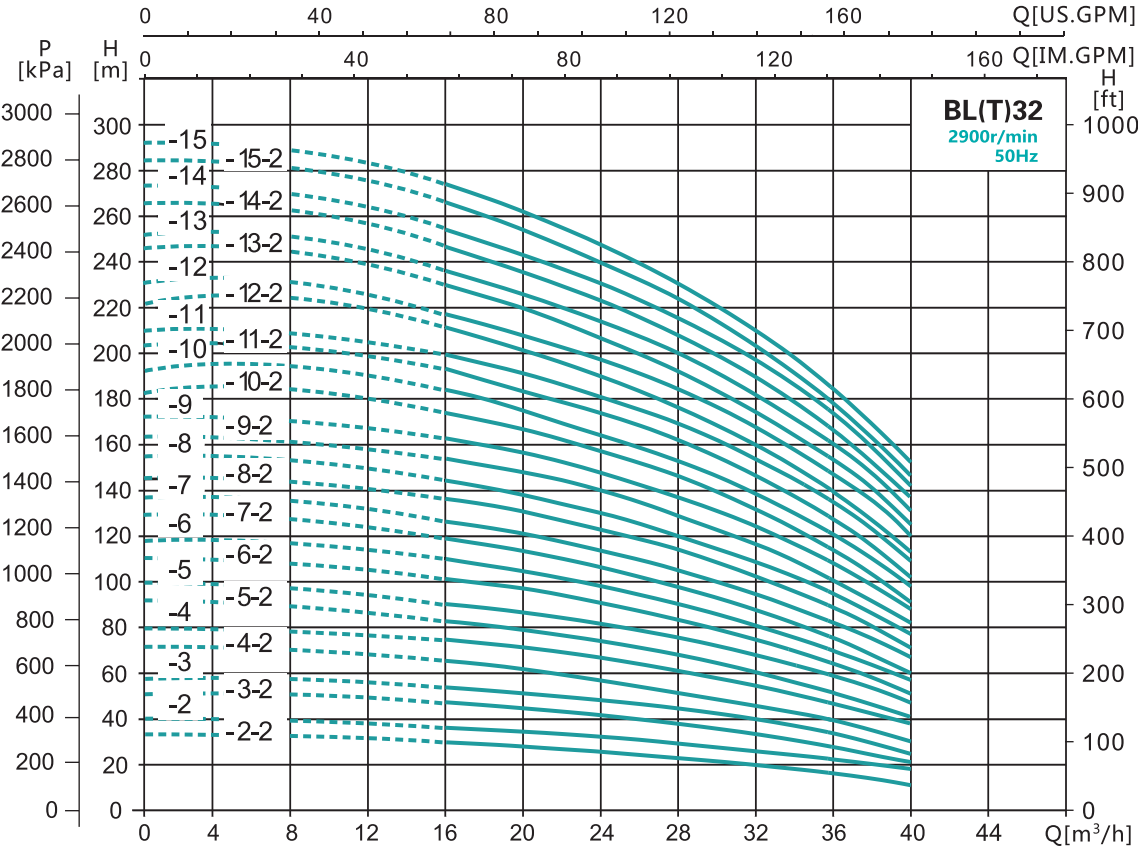
Model	Power		Caliber	Q (m³/h)	14	16	18	20	22	24	26	28	Head Range (m)
	kW	HP			14	16	18	20	22	24	26	28	
BL(T)20-2	2.2	3	DN50	H(m)	26	25	24	23	22	20	18	15	26~15
BL(T)20-3	4	5.5			39	38	37	35	33	30	27	24	39~24
BL(T)20-4	5.5	7.5			52	51	49	47	44	41	37	33	52~33
BL(T)20-5	5.5	7.5			64	62	60	58	55	50	45	40	64~40
BL(T)20-6	7.5	10			77	75	73	70	66	61	55	49	77~49
BL(T)20-7	7.5	10			91	89	86	82	77	71	65	58	91~58
BL(T)20-8	11	15			105	102	99	94	89	82	75	67	105~67
BL(T)20-10	11	15			131	128	124	118	111	103	95	85	131~85
BL(T)20-12	15	20			158	154	149	142	133	124	114	102	158~102
BL(T)20-14	15	20			185	180	174	166	156	145	133	119	185~119
BL(T)20-17	18.5	25			225	219	212	202	190	177	162	145	225~145

Dimensions

Model	Dim.(mm)					N.W.(kg)(BL/BLT)
	B1(BL/BLT)	B2	B1+B2(BL/BLT)	D1	D2	
BL(T)20-2	403/415	280	683/695	168	114	45/48
BL(T)20-3	458/470	355	813/825	215	138	56/59
BL(T)20-4	527/539	430	957/969	260	160	82/85
BL(T)20-5	572/584	430	1002/1014	260	160	83/86
BL(T)20-6	617/629	430	1047/1059	260	160	90/93
BL(T)20-7	662/674	430	1092/1104	260	160	91/94
BL(T)20-8	738/750	498	1236/1248	314	250	159/163
BL(T)20-10	828/840	498	1326/1338	314	250	162/165
BL(T)20-12	918/930	498	1416/1428	314	250	180/183
BL(T)20-14	1008/1020	498	1506/1518	314	250	183/186
BL(T)20-17	1143/1155	542	1685/1697	314	250	205/208



Performance Curve - BL(T) 32



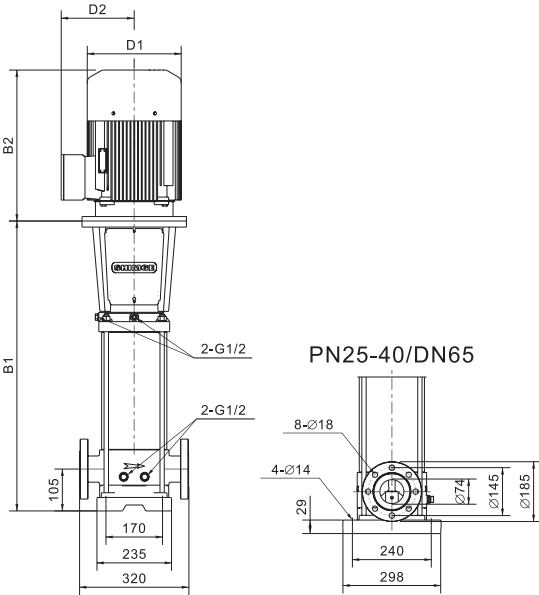
It is recommended to be used within lift range.

Performance Table

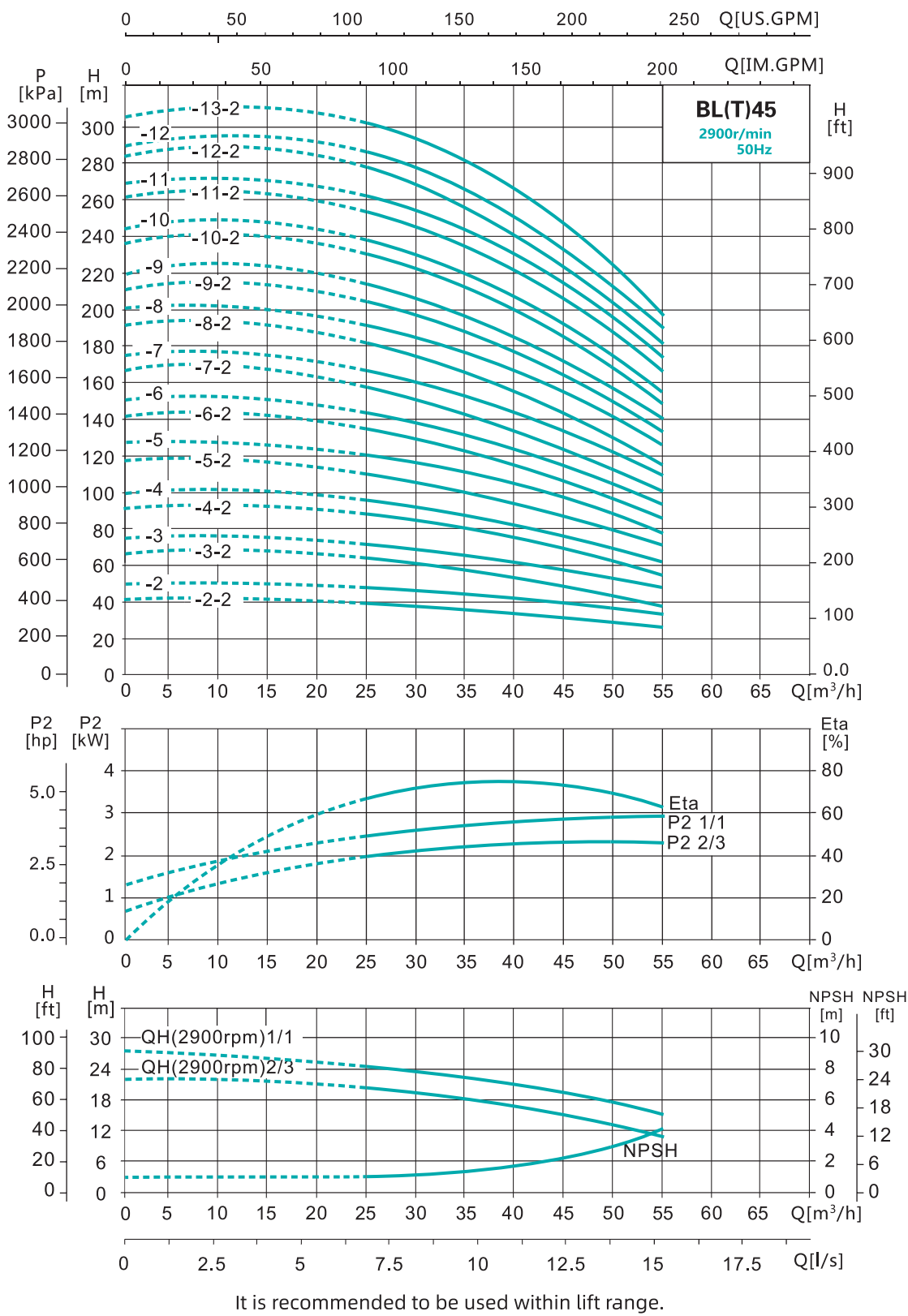
Model	Power		Caliber	Q (m³/h)	16	20	24	28	32	36	40	Head Range (m)
	kW	HP										
BL(T)32-2-2	3	4	DN65	H(m)	29	28	26	23	20	16	11	29~11
BL(T)32-2	4	5.5			36	34	32	29	27	23	18	36~18
BL(T)32-3-2	5.5	7.5			47	44	41	38	33	28	21	47~21
BL(T)32-3	5.5	7.5			54	51	48	44	40	35	27	54~27
BL(T)32-4-2	7.5	10			65	62	58	53	46	40	30	65~30
BL(T)32-4	7.5	10			72	69	65	59	53	47	37	72~37
BL(T)32-5-2	11	15			83	79	74	68	60	52	41	83~41
BL(T)32-5	11	15			90	86	81	74	67	59	47	90~47
BL(T)32-6-2	11	15			101	97	90	83	74	65	51	101~51
BL(T)32-6	11	15			108	104	97	90	81	72	57	108~57
BL(T)32-7-2	15	20			119	114	107	98	88	78	60	119~60
BL(T)32-7	15	20			126	121	113	105	95	85	67	126~67
BL(T)32-8-2	15	20			136	131	123	114	102	90	71	136~71
BL(T)32-8	15	20			144	138	130	120	109	97	77	144~77
BL(T)32-9-2	18.5	25			154	148	140	129	117	102	82	154~82
BL(T)32-9	18.5	25			162	156	147	136	124	109	88	162~88
BL(T)32-10-2	18.5	25			175	166	157	146	131	115	91	175~91
BL(T)32-10	18.5	25			182	173	164	152	138	122	98	182~98
BL(T)32-11-2	22	30			193	184	173	164	146	128	102	193~102
BL(T)32-11	22	30			200	191	180	168	153	135	109	200~109
BL(T)32-12-2	22	30			211	201	189	178	160	140	113	211~113
BL(T)32-12	22	30			218	208	196	184	167	147	120	218~120
BL(T)32-13-2	30	40			230	218	206	193	174	153	124	230~124
BL(T)32-13	30	40			237	225	213	200	181	160	131	237~131
BL(T)32-14-2	30	40			247	235	222	210	189	165	135	247~135
BL(T)32-14	30	40			255	242	229	216	196	172	142	255~142
BL(T)32-15-2	30	40			266	253	239	224	203	178	145	266~145
BL(T)32-15	30	40			274	260	246	231	210	185	152	274~152

Dimensions

Model	Dim.(mm)					N.W.(kg) (BL/BLT)
	B1(BL/BLT)	B2	B1+B2(BL/BLT)	D1	D2	
BL(T)32-2-2	632	307	939	194	132	80/85
BL(T)32-2	632	355	987	215	138	83/88
BL(T)32-3-2	722	430	1152	260	160	102/107
BL(T)32-3	722	430	1152	260	160	102/107
BL(T)32-4-2	792	430	1222	260	160	110/115
BL(T)32-4	792	430	1222	260	160	110/115
BL(T)32-5-2	892	498	1390	314	250	179/184
BL(T)32-5	892	498	1390	314	250	179/184
BL(T)32-6-2	962	498	1460	314	250	183/188
BL(T)32-6	962	498	1460	314	250	183/188
BL(T)32-7-2	1032	498	1530	314	250	201/206
BL(T)32-7	1032	498	1530	314	250	201/206
BL(T)32-8-2	1102	498	1600	314	250	204/209
BL(T)32-8	1102	498	1600	314	250	204/209
BL(T)32-9-2	1172	542	1714	314	250	225/230
BL(T)32-9	1172	542	1714	314	250	225/230
BL(T)32-10-2	1242	542	1784	314	250	228/233
BL(T)32-10	1242	542	1784	314	250	228/233
BL(T)32-11-2	1312	578	1890	355	268	266/271
BL(T)32-11	1312	578	1890	355	268	266/271
BL(T)32-12-2	1382	578	1960	355	268	269/274
BL(T)32-12	1382	578	1960	355	268	269/274
BL(T)32-13-2	1452	650	2102	397	305	341/348
BL(T)32-13	1452	650	2102	397	305	341/348
BL(T)32-14-2	1522	650	2172	397	305	346/351
BL(T)32-14	1522	650	2172	397	305	346/351
BL(T)32-15-2	1592	650	2242	397	305	349/354
BL(T)32-15	1592	650	2242	397	305	349/354



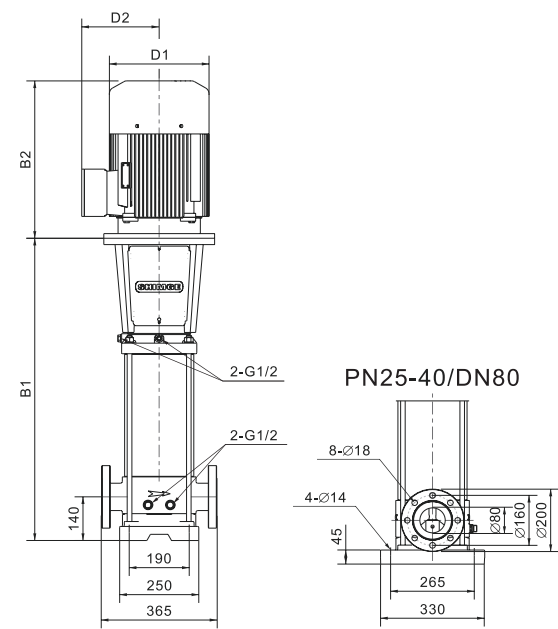
Performance Curve - BL(T) 45



Performance Table

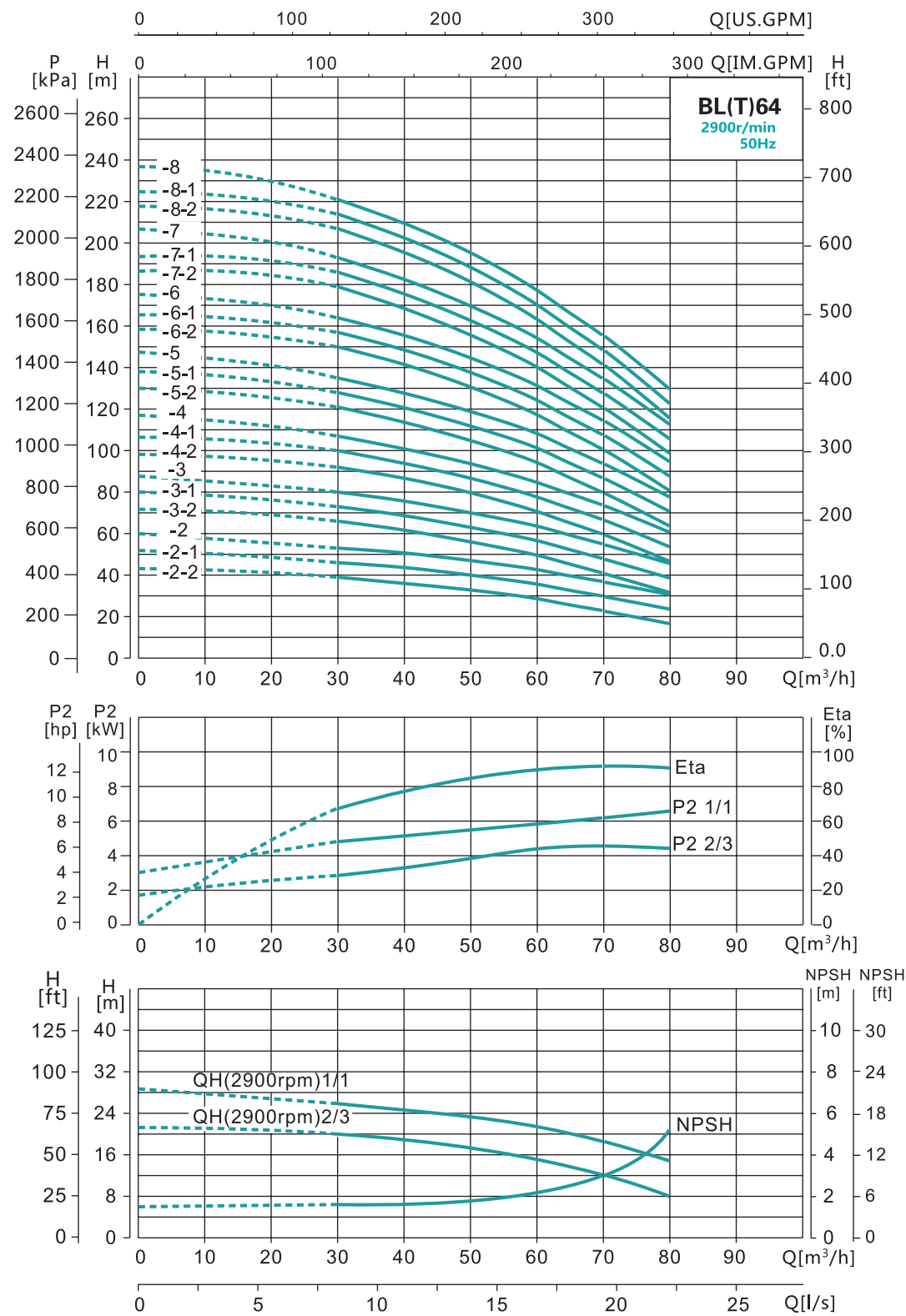
Model	Power		Caliber	Q (m³/h)	25	30	35	40	45	50	55	Head Range (m)
	kW	HP										
BL(T)45-2-2	5.5	7.5	DN80	H(m)	40	38	36	33	30	27	23	40~23
BL(T)45-2	7.5	10			48	46	44	42	39	35	31	48~31
BL(T)45-3-2	11	15			63	61	58	54	50	44	38	63~38
BL(T)45-3	11	15			71	69	66	63	58	53	47	71~47
BL(T)45-4-2	15	20			87	84	80	75	69	62	54	87~54
BL(T)45-4	15	20			95	92	88	84	78	71	62	95~62
BL(T)45-5-2	18.5	25			111	107	102	96	88	80	69	111~69
BL(T)45-5	18.5	25			119	115	110	105	97	88	78	119~78
BL(T)45-6-2	22	30			135	130	124	117	108	97	85	135~85
BL(T)45-6	22	30			143	138	132	125	116	106	93	143~93
BL(T)45-7-2	30	40			158	152	146	138	127	115	100	158~100
BL(T)45-7	30	40			166	161	154	146	135	124	109	166~109
BL(T)45-8-2	30	40			182	175	168	159	146	133	116	182~116
BL(T)45-8	30	40			190	184	176	167	154	141	124	190~124
BL(T)45-9-2	30	40			205	198	190	180	166	150	132	205~132
BL(T)45-9	37	50			214	207	198	188	174	159	140	214~140
BL(T)45-10-2	37	50			230	221	212	200	185	168	147	230~147
BL(T)45-10	37	50			238	230	220	209	193	177	155	238~155
BL(T)45-11-2	45	60			255	246	236	223	206	188	165	255~165
BL(T)45-11	45	60			263	255	244	232	214	196	173	263~173
BL(T)45-12-2	45	60			280	270	259	245	226	206	181	280~181
BL(T)45-12	45	60			289	280	268	255	236	216	190	289~190
BL(T)45-13-2	45	60			305	294	282	267	247	225	198	305~198
BL(T)45-13												

Dimensions



Model	Dim.(mm)					N.W.(kg) (BL/BLT)
	B1(BL/BLT)	B2	B1+B2(BL/BLT)	D1	D2	
BL(T)45-2-2	699/715	430	1129/1145	260	160	104/117
BL(T)45-2	699/715	430	1129/1145	260	160	110/123
BL(T)45-3-2	809/825	498	1307/1323	314	250	180/193
BL(T)45-3	809/825	498	1307/1323	314	250	180/193
BL(T)45-4-2	889/905	498	1387/1403	314	250	199/212
BL(T)45-4	889/905	498	1387/1403	314	250	199/212
BL(T)45-5-2	969/985	542	1511/1527	314	250	221/233
BL(T)45-5	969/985	542	1511/1527	314	250	221/233
BL(T)45-6-2	1049/1065	578	1627/1643	355	268	260/272
BL(T)45-6	1049/1065	578	1627/1643	355	268	260/272
BL(T)45-7-2	1129/1145	650	1779/1795	397	305	334/346
BL(T)45-7	1129/1145	650	1779/1795	397	305	334/346
BL(T)45-8-2	1209/1225	650	1859/1875	397	305	338/350
BL(T)45-8	1209/1225	650	1859/1875	397	305	338/350
BL(T)45-9-2	1289/1305	650	1939/1955	397	305	341/354
BL(T)45-9	1289/1305	650	1939/1955	397	305	357/420
BL(T)45-10-2	1369/1385	650	2019/2035	397	305	361/424
BL(T)45-10	1369/1385	650	2019/2035	397	305	361/424
BL(T)45-11-2	1449/1465	692	2141/2157	446	330	444/509
BL(T)45-11	1449/1465	692	2141/2157	446	330	444/509
BL(T)45-12-2	1529/1545	692	2221/2237	446	330	447/518
BL(T)45-12	1529/1545	692	2221/2237	446	330	447/518
BL(T)45-13-2	1609/1625	692	2301/2317	446	330	451/523

Performance Curve - BL(T)64

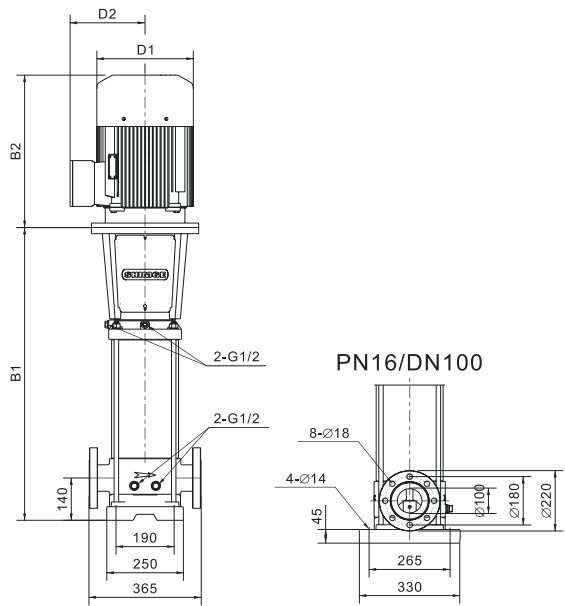


It is recommended to be used within lift range.

Performance Table

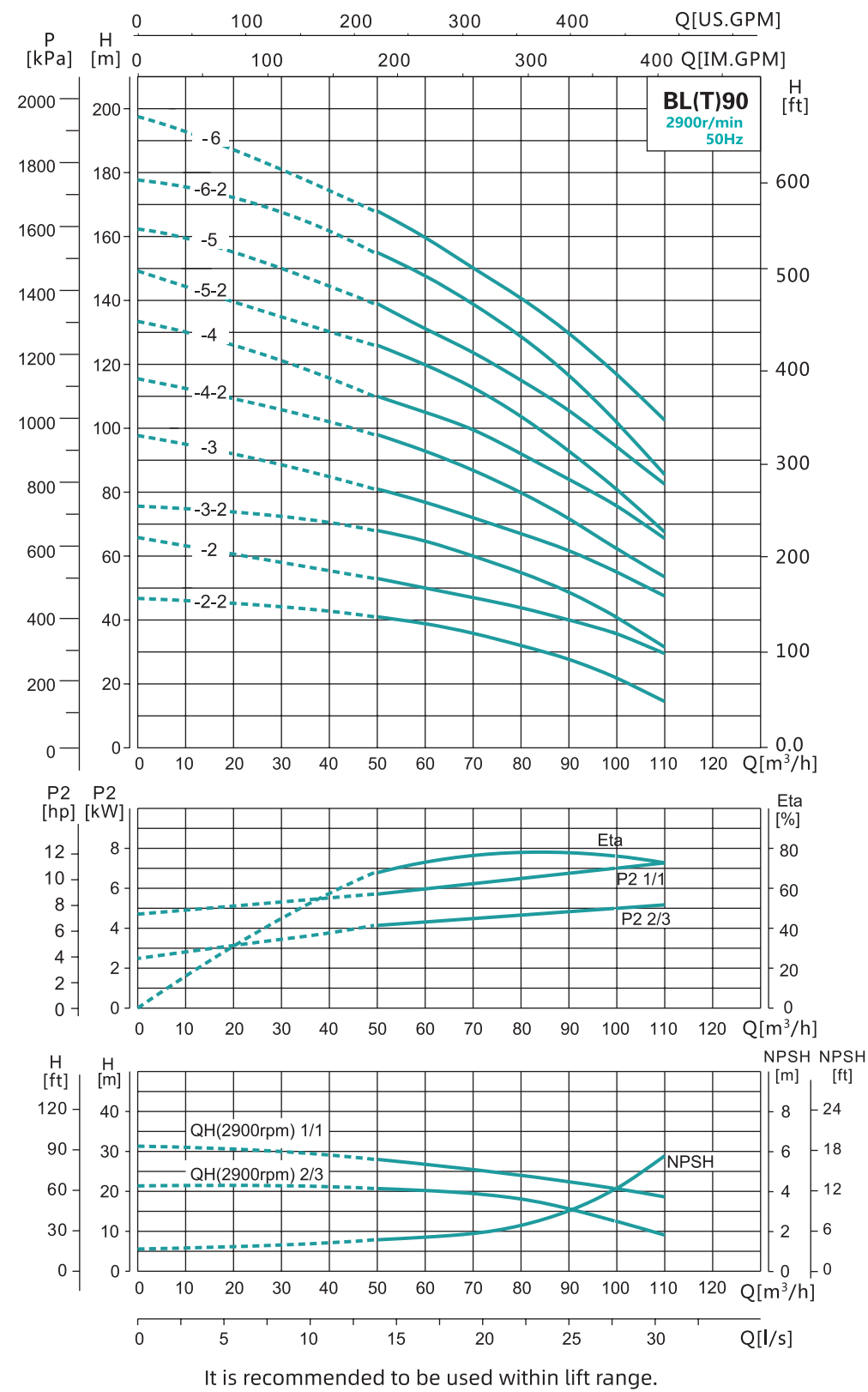
Model	Power		Caliber	Q (m³/h)	30	40	50	60	64	70	80	Head Range (m)
	kW	HP										
BL(T)64-2-2	7.5	10	DN100	H(m)	39	36	33	29	26	23	17	39~17
BL(T)64-2-1	11	15			46	44	40	36	33	30	24	46~24
BL(T)64-2	11	15			53	51	47	43	40	37	31	53~31
BL(T)64-3-2	15	20			66	62	56	50	46	41	32	66~32
BL(T)64-3-1	15	20			73	69	63	57	53	48	39	73~39
BL(T)64-3	18.5	25			80	76	71	65	60	56	46	80~46
BL(T)64-4-2	18.5	25			92	87	80	71	66	60	47	92~47
BL(T)64-4-1	22	30			100	94	87	78	73	67	54	100~54
BL(T)64-4	22	30			107	101	94	85	80	74	61	107~61
BL(T)64-5-2	30	40			121	114	105	95	88	80	64	121~64
BL(T)64-5-1	30	40			128	121	112	102	95	87	71	128~71
BL(T)64-5	30	40			136	129	119	109	102	94	78	136~78
BL(T)64-6-2	30	40			150	142	131	118	110	101	81	150~81
BL(T)64-6-1	37	50			157	149	138	125	117	108	88	157~88
BL(T)64-6	37	50			164	156	145	132	124	115	95	164~95
BL(T)64-7-2	37	50			179	169	156	141	132	121	99	179~99
BL(T)64-7-1	37	50			186	176	163	148	139	128	106	186~106
BL(T)64-7	45	60			193	183	170	155	146	135	112	193~112
BL(T)64-8-2	45	60			207	196	182	164	154	142	116	207~116
BL(T)64-8-1	45	60			214	203	189	171	161	149	123	214~123
BL(T)64-8	45	60			221	210	196	178	168	156	130	221~130

Dimensions



Model	Dim.(mm)					N.W.(kg)	
	B1(BL/BLT)	B2	B1+B2(BL/BLT)	D1	D2	BL	BLT
BL(T)64-2-2	715	430	1145	260	160	121	125
BL(T)64-2-1	745	498	1243	314	250	187	191
BL(T)64-2	745	498	1243	314	250	187	191
BL(T)64-3-2	825	498	1323	314	250	206	210
BL(T)64-3-1	825	498	1323	314	250	206	210
BL(T)64-3	825	542	1367	314	250	224	228
BL(T)64-4-2	905	542	1447	314	250	228	232
BL(T)64-4-1	905	578	1483	355	268	263	268
BL(T)64-4	905	578	1483	355	268	263	268
BL(T)64-5-2	985	650	1635	397	305	338	342
BL(T)64-5-1	985	650	1635	397	305	338	342
BL(T)64-5	985	650	1635	397	305	338	342
BL(T)64-6-2	1065	650	1715	397	305	342	346
BL(T)64-6-1	1065	650	1715	397	305	357	361
BL(T)64-6	1065	650	1715	397	305	357	361
BL(T)64-7-2	1145	650	1795	397	305	361	365
BL(T)64-7-1	1145	650	1795	397	305	365	365
BL(T)64-7	1145	692	1837	446	330	440	444
BL(T)64-8-2	1225	692	1917	446	330	444	448
BL(T)64-8-1	1225	692	1917	446	330	444	448
BL(T)64-8	1225	692	1917	446	330	444	448

Performance Curve - BL(T)90

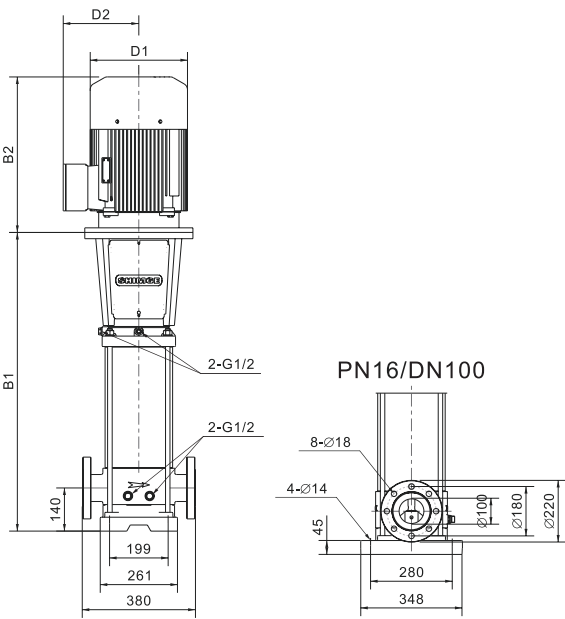


Performance Table

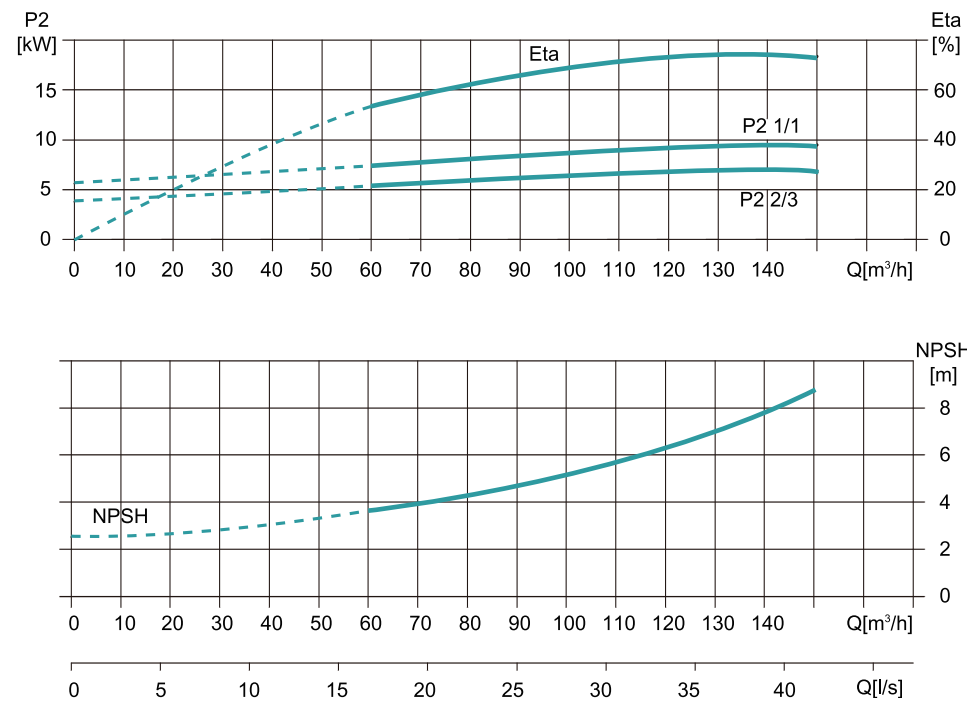
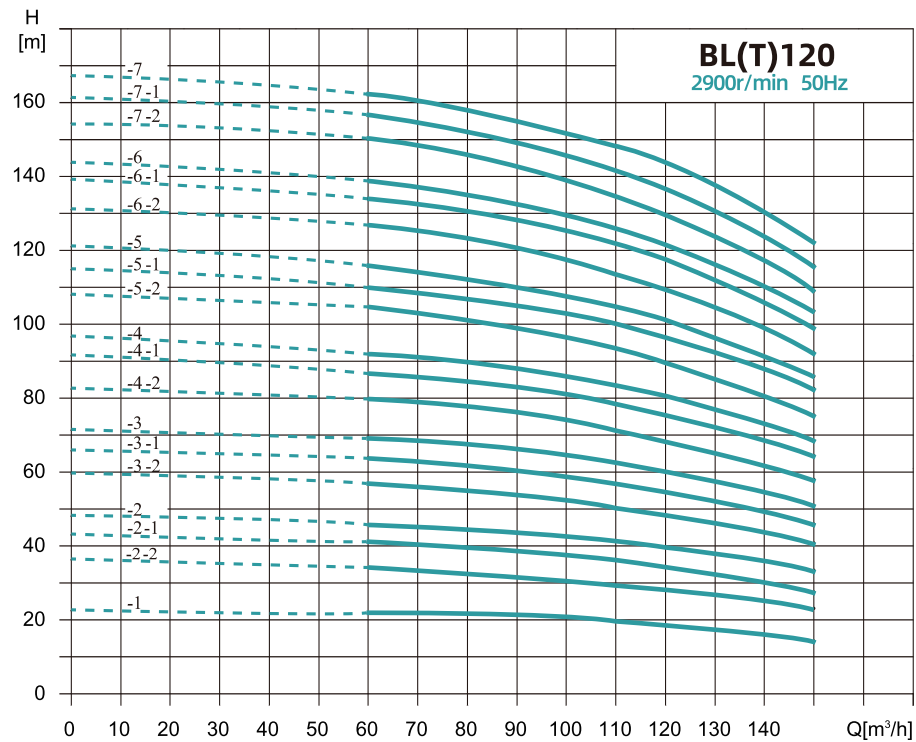
Model	Power		Caliber	Q (m³/h)	50	60	70	80	90	100	110	Head Range (m)
	kW	HP										
BL(T)90-2-2	11	15	DN100	H(m)	41	39	36	32	28	22	15	41~15
BL(T)90-2	15	20			53	50	47	44	40	36	30	53~30
BL(T)90-3-2	18.5	25			68	65	60	55	49	41	32	68~32
BL(T)90-3	22	30			81	77	72	67	62	55	48	81~48
BL(T)90-4-2	30	40			98	93	87	80	72	62	50	98~50
BL(T)90-4	30	40			110	105	100	92	84	76	66	110~66
L(T)90-5-2	37	50			126	120	113	104	93	81	68	126~68
BL(T)90-5	37	50			139	131	124	115	106	94	83	139~83
BL(T)90-6-2	45	60			155	148	139	129	117	102	86	155~86
BL(T)90-6	45	60			168	160	150	141	130	117	103	168~103

Dimensions

Model	Dim.(mm)					N.W.(kg)	
	B1(BL/BLT)	B2	B1+B2(BL/BLT)	D1	D2	BL	BLT
BL(T)90-2-2	770	498	1268	314	250	189	200
BL(T)90-2	770	498	1268	314	250	205	216
BL(T)90-3-2	862	542	1404	314	250	227	238
BL(T)90-3	862	578	1440	355	268	263	273
BL(T)90-4-2	954	650	1604	397	305	337	348
BL(T)90-4	954	650	1604	397	305	337	348
BL(T)90-5-2	1046	650	1696	397	305	357	368
BL(T)90-5	1046	650	1696	397	305	357	368
BL(T)90-6-2	1138	692	1830	446	330	441	451
BL(T)90-6	1138	692	1830	446	330	441	451



Performance Curve - BL(T)120

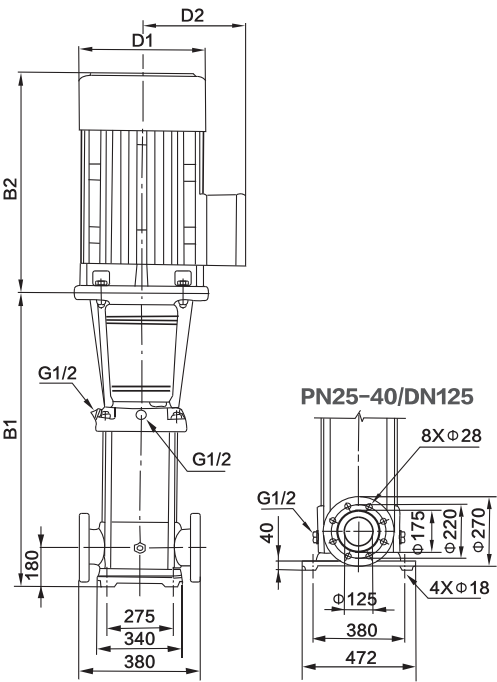


It is recommended to be used within lift range.

Performance Table

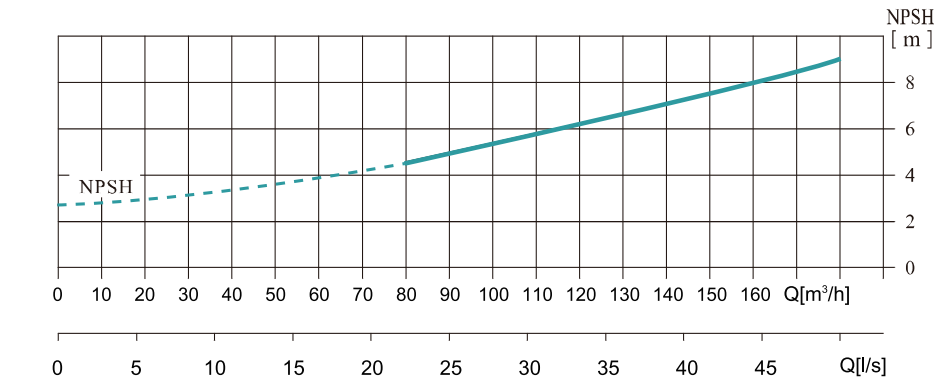
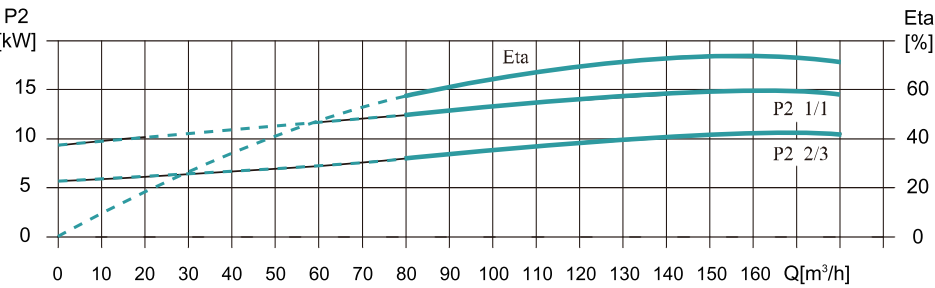
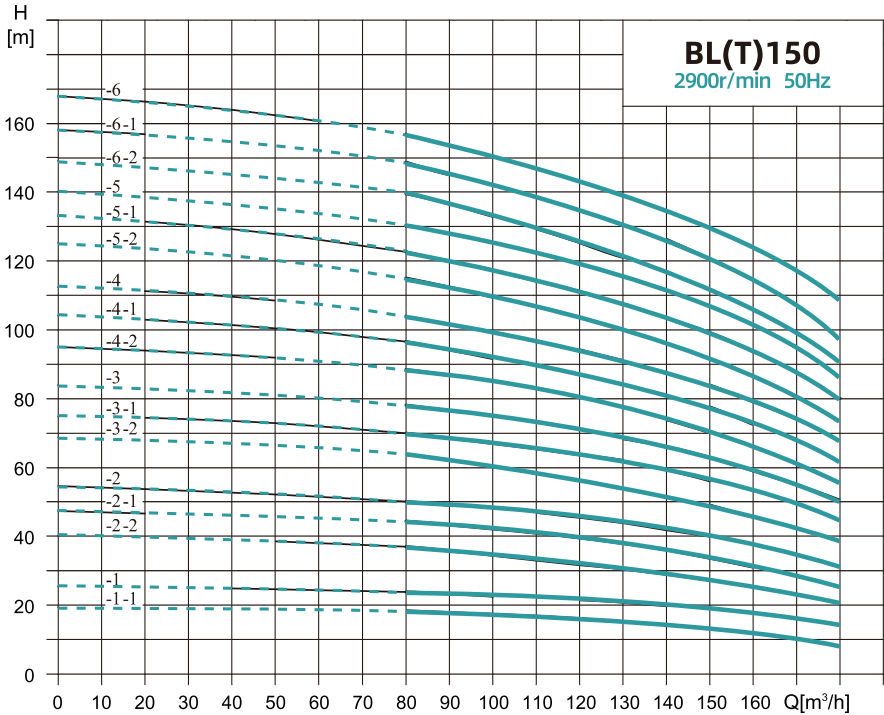
Model	Power		Caliber	Q (m³/h)	60	70	80	90	100	110	120	130	140	150	Head Range (m)
	kW	HP													
BL(T)120-1	11	15	DN125	H(m)	22	21.8	21.6	21	20.5	19.5	18.5	17	16	15	22~15
BL(T)120-2-2	15	20			34	33.6	33	31	30.2	30	28.5	27	25	24	34~24
BL(T)120-2-1	18.5	25			41	40	39.5	38.5	37	36.5	34.5	32.5	30	27.5	41~27.5
BL(T)120-2	22	30			46	45	44.5	43.5	42.4	41	40	38	36	33.5	46~33.5
BL(T)120-3-2	30	40			57	56	55	53.5	52	51	49	46.5	43.5	41	57~41
BL(T)120-3-1	30	40			64	63	62	60	58.5	57.5	55.5	52	49	46	64~46
BL(T)120-3	30	40			69.5	68.5	67.5	66	64.4	62.5	61	57.5	54.5	51	69.5~51
BL(T)120-4-2	37	50			80.5	79	78	76	73.5	72	69	66	61.5	58	80.5~58
BL(T)120-4-1	37	50			87	86	84.5	82	80	78	76	72	68	64.5	87~64.5
BL(T)120-4	45	60			92.5	91	90	88	85.5	83	81	77	73	68.5	92.5~68.5
BL(T)120-5-2	45	60			104.5	103	101	99	96	93	90	85.5	80.5	75.5	104.5~75.5
BL(T)120-5-1	45	60			110.5	109	107.5	105	102	100	97	92	86.5	83	110.5~83
BL(T)120-5	55	75			115.5	114	113	110	107.5	104.5	101.5	96	91	86	115.5~86
BL(T)120-6-2	55	75			128	125.5	123	121	117.3	113.5	110	104.5	98.5	92.5	128~92.5
BL(T)120-6-1	55	75			134	132	130.5	127	124	121	118	111	105	100	134~100
BL(T)120-6	75	100			139	137	135	132	128.8	126	123	116	110	104	139~104
BL(T)120-7-2	75	100			151	148	145.5	143	138.6	134	130	123.5	116.5	109	151~109
BL(T)120-7-1	75	100			156.5	154	152	148.5	144.5	141	137.5	130	123	116.5	156.5~116.5
BL(T)120-7	75	100			162.5	160.5	158.5	155	151	148	145	137	129	123	162.5~123

Dimensions



Modle	Dim. (mm)					N.W.(kg)	
	B1	B2	B1+B2	D1	D2	BL	BLT
BL(T)120-1	840	580	1420	350	260	219	231
BL(T)120-2-2	1000	580	1580	350	260	235	246
BL(T)120-2-1	1000	610	1610	350	260	257	268
BL(T)120-2	1000	645	1645	360	285	289	300
BL(T)120-3-2	1160	705	1865	400	310	370	381
BL(T)120-3-1	1160	705	1865	400	310	370	381
BL(T)120-3	1160	705	1865	400	310	370	381
BL(T)120-4-2	1320	705	2025	400	310	393	404
BL(T)120-4-1	1320	705	2025	400	310	393	404
BL(T)120-4	1320	740	2060	460	340	470	481
BL(T)120-5-2	1480	740	2220	460	340	479	490
BL(T)120-5-1	1480	740	2220	460	340	479	490
BL(T)120-5	1510	810	2320	550	370	590	601
BL(T)120-6-2	1670	810	2480	550	370	599	610
BL(T)120-6-1	1670	810	2480	550	370	599	610
BL(T)120-6	1670	870	2540	580	410	713	724
BL(T)120-7-2	1830	870	2700	580	410	722	733
BL(T)120-7-1	1830	870	2700	580	410	722	733
BL(T)120-7	1830	870	2700	580	410	722	733

Performance Curve - BL(T)150

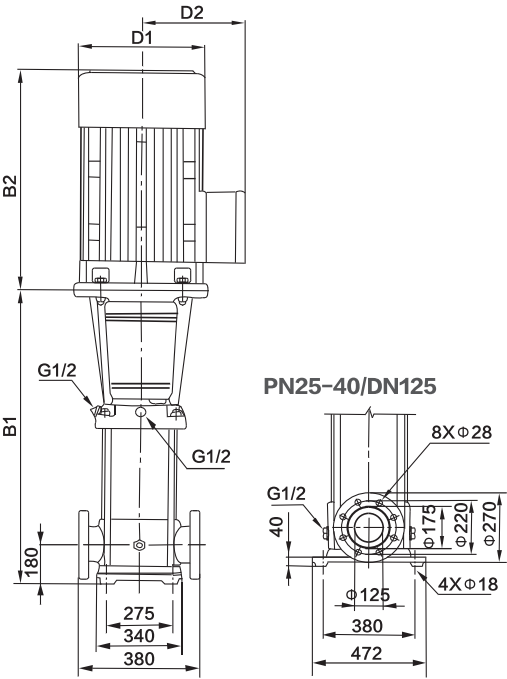


It is recommended to be used within lift range.

Performance Table

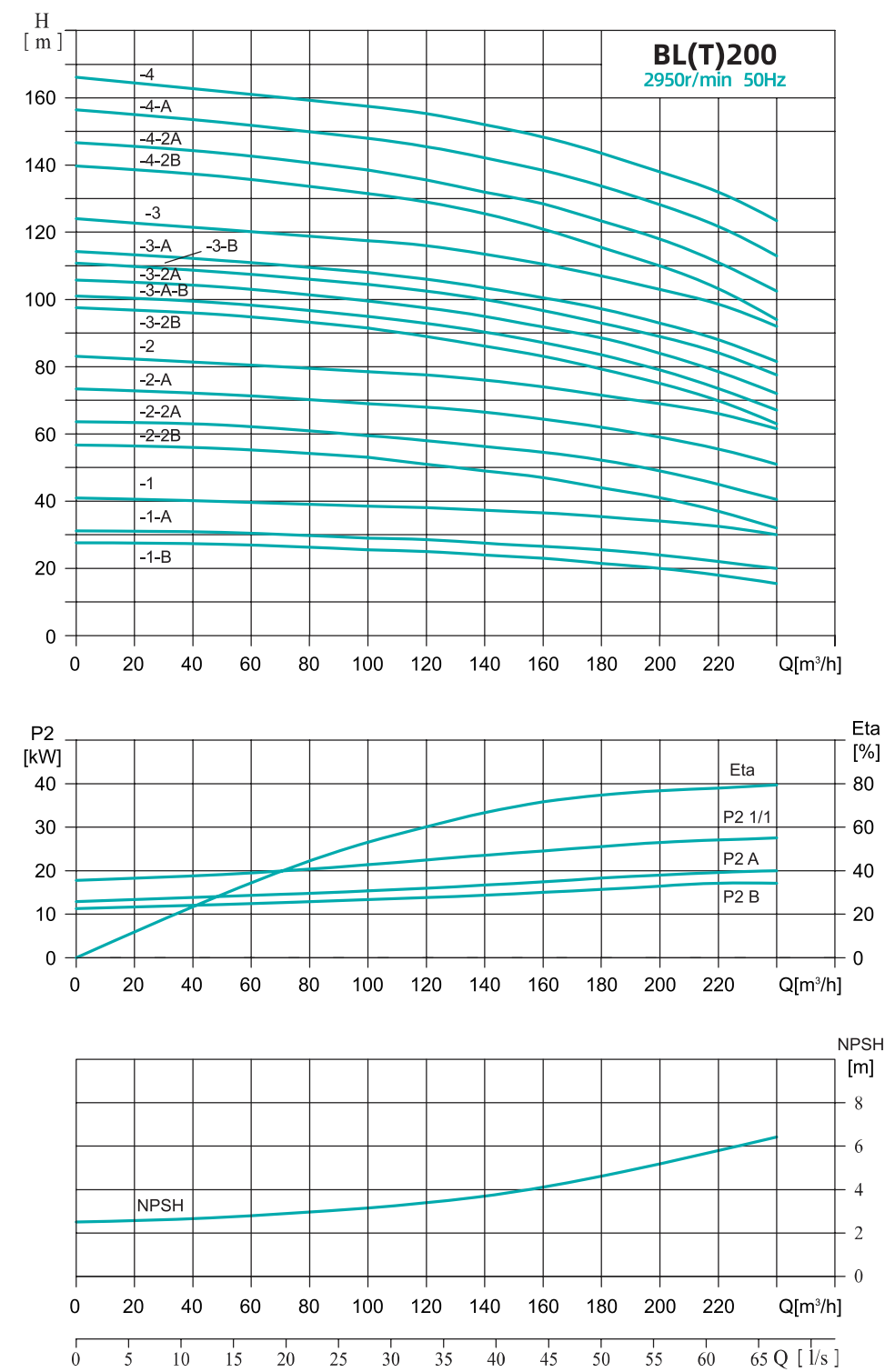
Model	Power		Caliber	Q (m³/h)	80	90	100	110	120	130	140	150	160	170	180	Head Range (m)
	kW	HP														
BL(T)150-1-1	11	15	DN125	H(m)	18.3	17.8	17.3	17	16	15	14	12.5	11	10	8.5	18.3~8.5
BL(T)150-1	15	20			24	23	22.5	22	21.5	20.5	20	18.5	17	16	15	24~15
BL(T)150-2-2	18.5	25			37	35.5	34	33	32	31	29	27.5	26	23	21	37~21
BL(T)150-2-1	22	30			44.3	43	42	40	39	38.5	37.5	35	33	30	27	44.3~27
BL(T)150-2	30	40			50	49	48	47	45.5	44	42	40	37	34	32	50~32
BL(T)150-3-2	30	40			63.5	61	59	57.5	56	54.5	53	49	45.5	42	39	63.5~39
BL(T)150-3-1	37	50			70	68	67	65	63	62	60	56	53	49	45	70~45
BL(T)150-3	37	50			78	76.5	75	73	70.5	68	66	63	59	55	50.5	78~50.5
BL(T)150-4-2	45	60			89	87	84	81.5	79	77	74.5	70.5	65.5	60	56	89~56
BL(T)150-4-1	45	60			96.5	94	91.5	89	86.5	84	81.5	77	72.5	67	62	96.5~62
BL(T)150-4	55	75			104	102	100	97	95	91	88	84	79.5	74	68	104~68
BL(T)150-5-2	55	75			115.5	112	109	106	102.5	100	97	92	86	79	73.5	115.5~73.5
BL(T)150-5-1	75	100			122.5	119.5	117	113.5	111.5	107.5	104.5	99	93.5	87	80	122.5~80
BL(T)150-5	75	100			130	127.5	125	121	119	115	111.5	106.5	101	94.5	86.5	130~86.5
BL(T)150-6-2	75	100			140	137	133	130	126	121	118	112	106	98	91	140~91
BL(T)150-6-1	75	100			148.5	145	141.7	137.5	135	131	127	120.5	114.5	106.5	97.5	148.5~97.5
BL(T)150-6	75	100			157	153	149	145	142	139.5	137	130	123.5	116	109	157~109

Dimensions



Modle	Dim. (mm)					N.W.(kg)	
	B1	B2	B1+B2	D1	D2	BL	BLT
BL(T)150-1-1	840	580	1420	350	260	219	231
BL(T)150-1	840	580	1420	350	260	226	238
BL(T)150-2-2	1000	610	1610	350	260	258	269
BL(T)150-2-1	1000	645	1645	360	285	290	301
BL(T)150-2	1000	705	1705	400	310	361	372
BL(T)150-3-2	1160	705	1865	400	310	370	381
BL(T)150-3-1	1160	705	1865	400	310	384	395
BL(T)150-3	1160	705	1865	400	310	384	395
BL(T)150-4-2	1320	740	2060	460	340	470	481
BL(T)150-4-1	1320	740	2060	460	340	470	481
BL(T)150-4	1350	810	2160	550	370	581	592
BL(T)150-5-2	1510	810	2320	550	370	590	601
BL(T)150-5-1	1510	870	2380	580	410	704	715
BL(T)150-5	1510	870	2380	580	410	704	715
BL(T)150-6-2	1670	870	2540	580	410	714	725
BL(T)150-6-1	1670	870	2540	580	410	714	725
BL(T)150-6	1670	870	2540	580	410	714	725

Performance Curve - BL(T)200

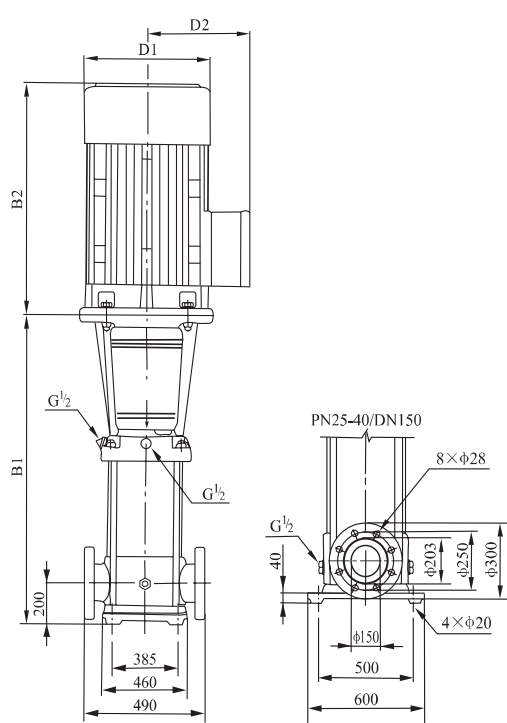


Performance Table

Model	Power		Caliber	Q (m³/h)	100	120	140	160	180	200	220	240	Head Range (m)
	kW	HP											
BL(T)200-1-B	18.5	25.0	DN150	H(m)	25.5	25	24	23	21.5	20	18	15.5	25.5~15.5
BL(T)200-1-A	22	30			29	28.5	27.5	26.5	25.5	24	22	20	29~20
BL(T)200-1	30	40			38.5	38	37.5	36.5	35	34	32.5	30	38.5~30
BL(T)200-2-2B	37	50			53	51	49	47	44	41	37	32	53~32
BL(T)200-2-2A	45	60			59.5	58	56	54	52.5	49	44.5	40.5	59.5~40.5
BL(T)200-2-A	55	75			69	68	66	64	62	59	55.5	51	69~51
BL(T)200-2	55	75			78.5	77.5	76	74	71.5	69	66	61.5	78.5~61.5
BL(T)200-3-2B	75	100			91.5	89	86.5	83.5	79	75	70	63	91.5~63
BL(T)200-3-A-B	75	100			95	93	90	87	83.5	79	73.5	67	95~67
BL(T)200-3-2A	75	100			99.5	97.5	94.5	91.5	89	84	78.5	72	99.5~72
BL(T)200-3-B	75	100			104.5	102.5	100	97	93	89	84.5	77.5	104.5~77.5
BL(T)200-3-A	75	100			108	106	103.5	100.5	97.5	93	88	81.5	108~81.5
BL(T)200-3	90	120			117.5	116	113.5	110.5	107	103	99	92	117.5~92
BL(T)200-4-2B	90	120			131.5	129	125.5	121	115.5	110	103.5	94	131.5~94
BL(T)200-4-2A	110	150			138.5	136	132	128	124	118	111	102.5	138.5~102.5
BL(T)200-4-A	110	150			148	145.5	142.5	138	134	128	122	113	148~113
BL(T)200-4	110	150			157.5	155.5	152.5	148	143.5	138	132.5	123.5	157.5~123.5

A and B represent different types of small impellers. The outer diameter of A type impeller is larger than that of B type impeller.

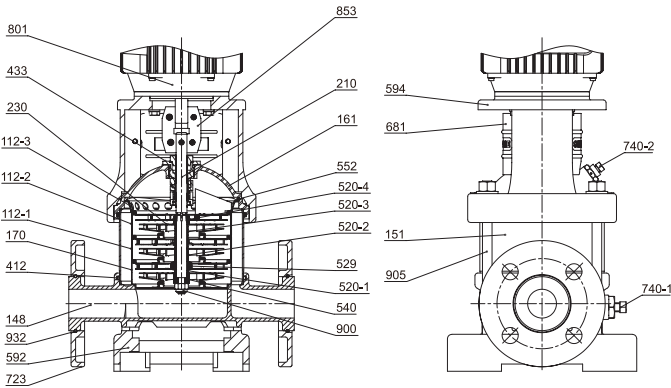
Dimensions



Modle	Dim. (mm)					N.w.(kg)	
	B1	B2	B1+B2	D1	D2	BL	BLT
BL(T)200-1-B	907	610	1517	350	260	327	346
BL(T)200-1-A	907	645	1552	360	285	359	378
BL(T)200-1	907	705	1612	400	310	432	450
BL(T)200-2-2B	1101	705	1806	400	310	470	488
BL(T)200-2-2A	1101	740	1841	460	340	541	560
BL(T)200-2-A	1131	810	1941	550	370	647	665
BL(T)200-2	1131	810	1941	550	370	647	666
BL(T)200-3-2B	1325	870	2195	580	410	783	802
BL(T)200-3-A-B	1325	870	2195	580	410	783	802
BL(T)200-3-2A	1325	870	2195	580	410	784	802
BL(T)200-3-A	1325	870	2195	580	410	784	802
BL(T)200-3	1325	920	2245	580	410	830	849
BL(T)200-4-2B	1519	920	2439	580	410	852	870
BL(T)200-4-2A	1519	1060	2579	660	550	1175	1193
BL(T)200-4-A	1519	1060	2579	660	550	1175	1194
BL(T)200-4	1519	1060	2579	660	550	1175	1194

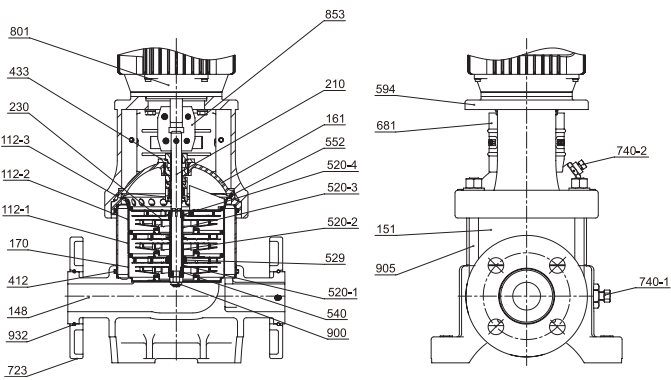
Components & Materials

BL2 BL4



S.N.	Part Name	Material
112-1	Chamber with bearing ring	304
112-2	Chamber	304
112-3	Outlet chamber	304
148	Base	304
151	Outer sleeve	304
161	Pump cover	304
170	Inlet chamber	304
210	Spline shaft	304
230	Impeller	304
412	O-ring	NBR
433	Shaft seal	Assembly
520-1	Short spacing pipe II	304
520-2	Short spacing pipe I	304
520-3	Long spacing pipe	304
520-4	Stop sleeve	304
529	Bearing ring	YN20
540	Bushing	304
552	Disc spring	304
592	Base plate	HT200
594	Motor stool	HT200
681	Coupling guard	304
723	Movable flange	ZG230-450
740-1	Adjustable bolt	304
740-2	Air valve	304
801	Motor	/
853	Coupling complete	F0212J
900	Type I non-metallic insert hexagon lock nut	304
905	Staybolt	45#
932	Retaining ring	304

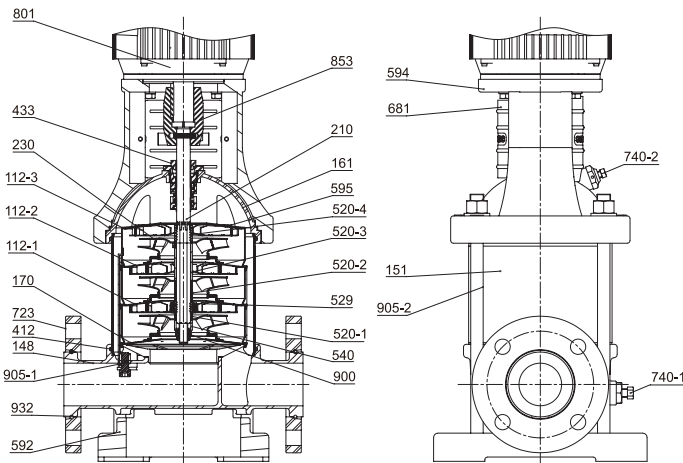
BLT2 BLT4



S.N.	Part Name	Material
112-1	Chamber with bearing ring	304
112-2	Chamber	304
112-3	Outlet chamber	304
148	Base	HT200
151	Outer sleeve	304
161	Pump cover	QT450-10
170	Inlet chamber	304
210	Spline shaft	304
230	Impeller	304
412	O-ring	NBR
433	Shaft seal	Assembly
520-1	Short spacing pipe II	304
520-2	Short spacing pipe I	304
520-3	Long spacing pipe	304
520-4	Stop sleeve	304
529	Bearing ring	YN20
540	Bushing	304
552	Disc spring	304
594	Motor stool	HT200
681	Coupling guard	304
723	Flange	ZG230-450
740-1	Adjustable bolt	304
740-2	Air valve	304
801	Motor	/
853	Coupling complete	F0212J
900	Type I non-metallic insert hexagon lock nut	304
905	Staybolt	45#
932	Retaining ring	304

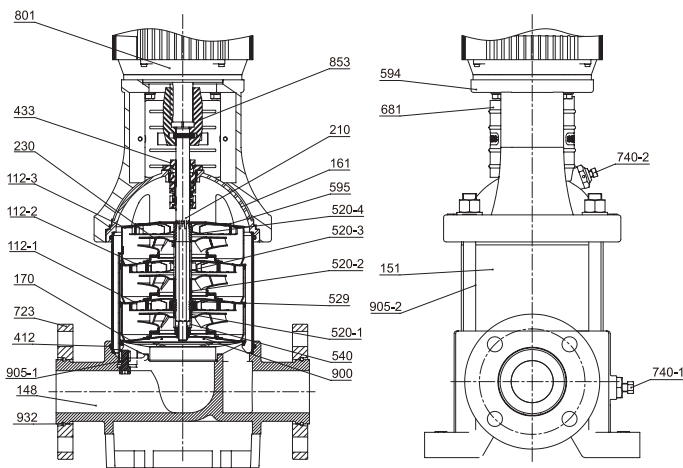
Components & Materials

BL8 BL12 BL16 BL20



S.N.	Part Name	Material
112-1	Chamber with bearing ring	304
112-2	Chamber	304
112-3	Outlet chamber	304
148	148 Base	304
151	Outer sleeve	304
161	Pump cover	304
170	Inlet chamber	304
210	Pump shart	304
230	Impeller	304
412	O-ring	NBR
433	Shaft seal	Assembly
520-1	Short spacing pipe II	304
520-2	Short spacing pipe I	304
520-3	Long spacing pipe	304
520-4	Stop sleeve	304
529	Bearing ring	YN20
540	Bush	304
592	Base plate	HT200
594	Motor stool	HT200
595	Hold-down nail	FPM
681	Coupling guard	304
723	Flange	ZG230-450
740-1	Adjustable bolt	304
740-2	Air valve	304
801	Motor	/
853	Coupling complete	F0212J/45#
900	Type I non-metallic insert hexagon lock nut	304
905-1	Strap	304
905-2	Staybolt	45#
932	Retaining ring	304

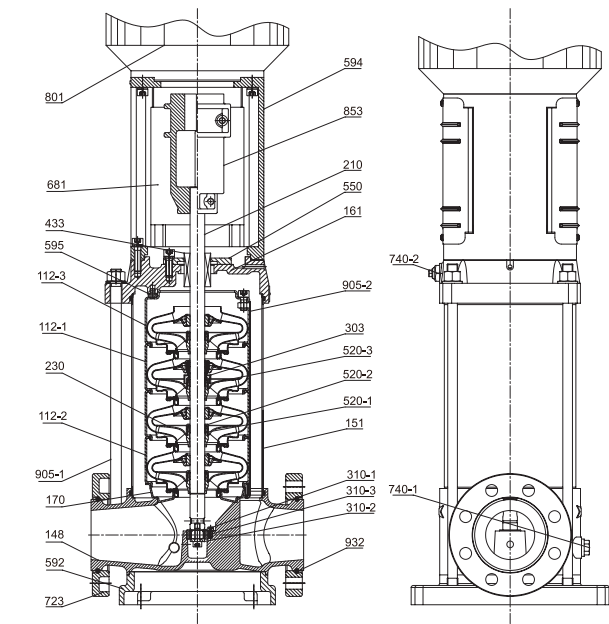
BLT8 BLT12 BLT16 BLT20



S.N.	Part Name	Material
112-1	Chamber with bearing ring	304
112-2	Chamber	304
112-3	Outlet chamber	304
148	Base	HT200
151	Outer sleeve	304
161	Pump cover	QT450-10
170	Inlet chamber	304
210	Pump shart	304
230	Impeller	304
412	O-ring	NBR
433	Shaft seal	Assembly
520-1	Short spacing pipe II	304
520-2	Short spacing pipe I	304
520-3	Long spacing pipe	304
520-4	Stop sleeve	304
529	Bearing ring	YN20
540	Bush	304
594	Motor stool	HT200
595	Hold-down nail	FPM
681	Coupling guard	304
723	Flange	ZG230-450
740-1	Adjustable bolt	304
740-2	Air valve	304
801	Motor	/
853	Coupling complete	F0212J/45#
900	Type I non-metallic insert hexagon lock nut	304
905-1	Strap	304
905-2	Staybolt	45#
932	Retaining ring	304

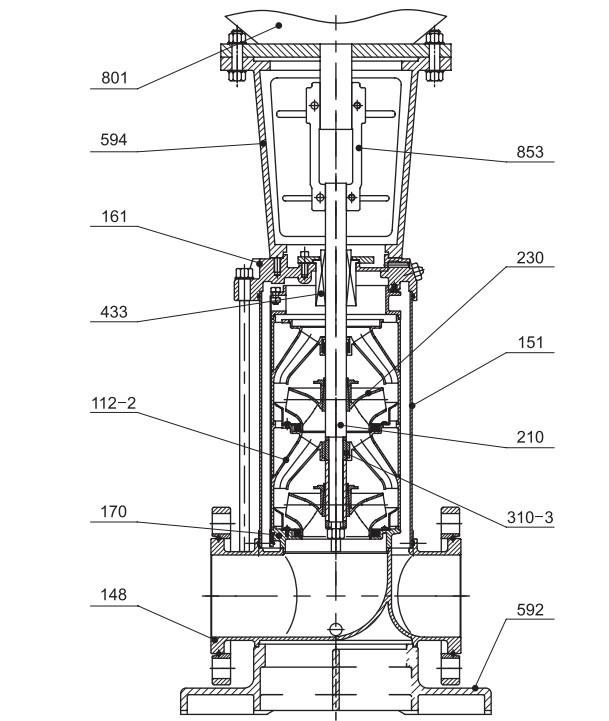
Components & Materials

BL(T)32-90



S.N.	Part Name	Material
112-1	Chamber with bearing ring	304
112-2	Chamber	304
112-3	Outlet chamber	304
148	Base	304/HT250
151	Outer sleeve	304
161	Pump cover	304/HT250
170	Inlet chamber	304
210	Pump shaft	304
230	Impeller	304
303	Impeller bearing	YN20
310-1	Bearing ring	YN20
310-2	Washer	304
310-3	Bearing ring	YN20
433	Shaft seal	Assembly
520-1	Split conical sleeve	304
520-2	Split conical sleeve nut	304
520-3	Split thick conical sleeve nut	304
550	Spacer for shaft seal	Q235A
592	Base plate	HT250
594	Motor stool	HT200
595	Hold-down nail	FPM
681	Coupling guard	304
723	Flange	ZG230-450
740-1	Adjustable bolt	304
740-2	Air valve	304
801	Motor	/
853	Coupling complete	QT500-7
905-1	Strap	304
905-2	Staybolt	45#
932	Retaining ring	304

BL(T)120-200



S.N.	Part Name	Material
110	Support guide vane	304
148	Entering and exiting water bodies	304 ASTM25B ASTM70-50-05
151	Outer cylinder	304
161	Sealing seat	304 ASTM70-50-05
70	Inlet guide vane	304
210	Shaft	304 316L 431
230	Impeller	304
310-3	Bearing	WC
433	Mechanical seal	Assembly
592	Base	ASTM70-50-05
594	Support	ASTM25B ASTM70-50-05
801	Motor	/
853	Coupling	ASTM70-50-05

Packing Sizes & Weight

BL(T)2			
Model	Dim.(mm) (L*W*H)	G.W.(kg)	
		BL	BLT
BL(T)2-2	590×330×320	27	28
BL(T)2-3	590×330×320	27	28
BL(T)2-4	630×330×320	29	30
BL(T)2-5	630×330×320	29	30
BL(T)2-6	730×330×320	33	35
BL(T)2-7	730×330×320	34	35
BL(T)2-9	790×330×320	36	38
BL(T)2-11	790×330×320	37	39
BL(T)2-13	840×330×320	41	43
BL(T)2-15	880×330×320	44	45
BL(T)2-18	930×330×320	47	49
BL(T)2-22	1030×330×320	54	55
BL(T)2-26	1100×330×390	62	63

BL(T)4			
Model	Dim.(mm) (L*W*H)	G.W.(kg)	
		BL	BLT
BL(T)4-2	590×330×320	27	29
BL(T)4-3	630×330×320	29	31
BL(T)4-4	730×330×320	33	35
BL(T)4-5	730×330×320	36	38
BL(T)4-6	790×330×320	36	42
BL(T)4-7	840×330×320	41	43
BL(T)4-8	840×330×320	41	37
BL(T)4-10	880×330×320	45	47
BL(T)4-12	930×330×320	47	48
BL(T)4-14	1030×330×390	59	61
BL(T)4-16	1100×330×390	60	62
BL(T)4-19	1190×350×420	66	68
BL(T)4-22	1270×350×420	69	70

BL(T)8			
Model	Dim.(mm) (L*W*H)	G.W.(kg)	
		BL	BLT
BL(T)8-2	780×350×370	43	47
BL(T)8-3	780×350×370	46	50
BL(T)8-4	850×350×370	51	55
BL(T)8-5	850×350×370	55	58
BL(T)8-6	900×350×370	56	60
BL(T)8-8	990×350×370	68	72
BL(T)8-10	1130×350×420	75	78
BL(T)8-11	1130×350×420	76	79
BL(T)8-12	1230×370×460	77	80
BL(T)8-14	1330×370×460	107	111
BL(T)8-16	1400×370×460	111	114
BL(T)8-18	1470×370×460	119	122
BL(T)8-20	1520×370×460	121	124

BL(T)12			
Model	Dim.(mm) (L*W*H)	G.W.(kg)	
		BL	BLT
BL(T)12-2	780×350×370	49	45
BL(T)12-3	780×350×370	53	49
BL(T)12-4	900×350×420	64	57
BL(T)12-5	900×350×420	65	59
BL(T)12-6	930×350×420	70	63
BL(T)12-7	1100×370×460	99	87
BL(T)12-8	1160×370×460	101	88
BL(T)12-9	1160×370×460	102	89
BL(T)12-10	1200×370×460	109	96
BL(T)12-12	1230×370×460	112	98
BL(T)12-14	1410×510×520	189	167
BL(T)12-16	1460×510×520	191	169
BL(T)12-18	1530×510×520	194	171

BL(T)16			
Model	Dim.(mm) (L*W*H)	G.W.(kg)	
		BL	BLT
BL(T)16-2	780×350×370	52	55
BL(T)16-3	900×350×420	63	67
BL(T)16-4	930×350×420	69	72
BL(T)16-5	1100×370×460	98	101
BL(T)16-6	1160×370×460	100	103
BL(T)16-7	1200×370×460	108	111
BL(T)16-8	1230×370×460	109	112
BL(T)16-10	1410×510×520	186	190
BL(T)16-12	1500×510×520	190	193
BL(T)16-14	1590×510×520	209	212
BL(T)16-16	1680×510×520	212	216

BL(T)20			
Model	Dim.(mm) (L*W*H)	G.W.(kg)	
		BL	BLT
BL(T)20-2	780×350×370	52	55
BL(T)20-3	930×350×420	67	70
BL(T)20-4	1100×370×460	97	100
BL(T)20-5	1100×370×460	98	101
BL(T)20-6	1160×370×460	106	109
BL(T)20-7	1200×370×460	108	111
BL(T)20-8	1320×510×520	183	186
BL(T)20-10	1410×510×520	186	190
BL(T)20-12	1500×510×520	205	208
BL(T)20-14	1590×510×520	209	213
BL(T)20-17	1770×510×520	241	244

Packing Sizes & Weight

BL(T)32				
Model	Dim.(mm) (L*W*H)	G.W.(kg)		
		BL	BLT	
BL(T)32-2-2	1100×370×460	95	100	
BL(T)32-2		98	103	
BL(T)32-3-2	1300×400×460	121	126	
BL(T)32-3		121	126	
BL(T)32-4-2		129	134	
BL(T)32-4		129	134	
BL(T)32-5-2	1550×510×520	207	212	
BL(T)32-5		207	212	
BL(T)32-6-2		210	215	
BL(T)32-6		210	215	
BL(T)32-7-2	1590×510×520	230	235	
BL(T)32-7		230	235	
BL(T)32-8-2		234	239	
BL(T)32-8		234	239	
BL(T)32-9-2	1890×510×520	263	268	
BL(T)32-9		263	268	
BL(T)32-10-2		266	271	
BL(T)32-10		266	271	
BL(T)32-11-2	2030×530×560	307	312	
BL(T)32-11		307	312	
BL(T)32-12-2		311	316	
BL(T)32-12		311	316	
BL(T)32-13-2	2330×580×600	395	401	
BL(T)32-13		395	401	
BL(T)32-14-2		398	403	
BL(T)32-14		398	403	
BL(T)32-15-2		401	406	
BL(T)32-15		401	406	

BL(T)45				
Model	Dim.(mm) (L*W*H)	G.W.(kg)		
		BL	BLT	
BL(T)45-2-2	1210×440×500	124	137	
BL(T)45-2		130	143	
BL(T)45-3-2	1480×510×520	206	219	
BL(T)45-3		206	219	
BL(T)45-4-2		225	238	
BL(T)45-4		225	238	
BL(T)45-5-2	1610×510×520	253	265	
BL(T)45-5		253	265	
BL(T)45-6-2	1710×530×560	295	308	
BL(T)45-6		295	308	
BL(T)45-7-2	1970×580×600	380	393	
BL(T)45-7		380	393	
BL(T)45-8-2		384	397	
BL(T)45-8		384	397	
BL(T)45-9-2	2130×580×600	391	404	
BL(T)45-9		406	420	
BL(T)45-10-2		410	424	
BL(T)45-10		410	424	
BL(T)45-11-2	2330×630×650	501	509	
BL(T)45-11		501	509	
BL(T)45-12-2		505	518	
BL(T)45-12		505	518	
BL(T)45-13-2	2390×630×650	509	523	

BL(T)64				
Model	Dim.(mm) (L*W*H)	G.W.(kg)		
		BL	BLT	
BL(T)64-2-2	1480×510×520	147	151	
BL(T)64-2-1		213	217	
BL(T)64-2	1480×510×520	213	217	
BL(T)64-3-2		239	243	
BL(T)64-3-1		239	243	
BL(T)64-3		257	261	
BL(T)64-4-2	1550×530×460	258	262	
BL(T)64-4-1		296	300	
BL(T)64-4		296	300	
BL(T)64-5-2	1810×580×600	377	382	
BL(T)64-5-1		377	382	
BL(T)64-5		377	382	
BL(T)64-6-2		381	386	
BL(T)64-6-1	2010×630×650	397	401	
BL(T)64-6		397	401	
BL(T)64-7-2		407	412	
BL(T)64-7-1		407	412	
BL(T)64-7		486	491	
BL(T)64-8-2		490	495	
BL(T)64-8-1		490	495	
BL(T)64-8		490	495	

Packing Sizes & Weight

BL(T)90				
Model	Dim.(mm) (L*W*H)	G.W.(kg)		
		BL	BLT	
BL(T)90-2-2	1480×510×520	215	226	
BL(T)90-2		231	242	
BL(T)90-3-2	1550×530×460	260	270	
BL(T)90-3		295	306	
BL(T)90-4-2	1780×580×600	376	387	
BL(T)90-4		376	387	
BL(T)90-5-2		397	407	
BL(T)90-5		397	407	
BL(T)90-6-2	1920×630×650	486	496	
BL(T)90-6		486	496	

BL(T)120				
Model	Dim.(mm) (L*W*H)	G.W.(kg)		
		BL	BLT	
BL(T)120-1	1500×560×680	254	266	
BL(T)120-2-2	1700×560×680	273	284	
BL(T)120-2-1	1700×560×680	295	306	
BL(T)120-2	1750×560×680	329	340	
BL(T)120-3-2	1950×620×680	416	427	
BL(T)120-3-1	1950×620×680	416	427	
BL(T)120-3	1950×620×680	416	427	
BL(T)120-4-2	2150×620×680	445	456	
BL(T)120-4-1	2150×620×680	445	456	
BL(T)120-4	2150×660×680	526	537	
BL(T)120-5-2	2320×660×680	539	550	
BL(T)120-5-1	2320×660×680	539	550	
BL(T)120-5	2440×770×800	665	676	
BL(T)120-6-2	2600×770×800	679	690	
BL(T)120-6-1	2600×770×800	679	690	
BL(T)120-6	2600×770×800	795	806	
BL(T)120-7-2	2850×770×800	808	819	
BL(T)120-7-1	2850×770×800	808	819	
BL(T)120-7	2850×770×800	808	819	

BL(T)200				
Model	Dim.(mm) (L*W*H)	G.W.(kg)		
		BL	BLT	
BL(T)200-1-B	1620×580×780	368	387	
BL(T)200-1-A	1660×580×780	401	420	
BL(T)200-1	1720×620×780	477	495	
BL(T)200-2-2B	1950×620×780	521	539	
BL(T)200-2-2A	1950×660×780	594	613	
BL(T)200-2-A	2100×770×830	717	735	
BL(T)200-2	2100×770×830	717	736	
BL(T)200-3-2B	2350×770×830	856	875	
BL(T)200-3-A-B	2350×770×830	856	875	
BL(T)200-3-2A	2350×770×830	856	875	
BL(T)200-3-B	2350×770×830	857	875	
BL(T)200-3-A	2350×770×830	857	875	
BL(T)200-3	2400×800×830	904	923	
BL(T)200-4-2B	2600×800×830	932	950	
BL(T)200-4-2A	2720×1000×900	1274	1292	
BL(T)200-4-A	2720×1000×900	1274	1293	
BL(T)200-4	2720×1000×900	1274	1293	

BL(T)120				
Model	Dim.(mm) (L*W*H)	G.W.(kg)		
		BL	BLT	
BL(T)120-1	1500×560×680	254	266	
BL(T)120-2-2	1700×560×680	273	284	
BL(T)120-2-1	1700×560×680	295	306	
BL(T)120-2	1750×560×680	329	340	
BL(T)120-3-2	1950×620×680	416	427	
BL(T)120-3-1	1950×620×680	416	427	
BL(T)120-3	1950×620×680	416	427	
BL(T)120-4-2	2150×620×680	445	456	
BL(T)120-4-1	2150×620×680	445	456	
BL(T)120-4	2150×660×680	526	537	
BL(T)120-5-2	2320×660×680	539	550	
BL(T)120-5-1	2320×660×680	539	550	
BL(T)120-5	2440×770×800	665	676	
BL(T)120-6-2	2600×770×800	679	690	
BL(T)120-6-1	2600×770×800	679	690	
BL(T)120-6	2600×770×800	795	806	
BL(T)120-7-2	2850×770×800	808	819	
BL(T)120-7-1	2850×770×800	808	819	
BL(T)120-7	2850×770×800	808	819	

BL(T)150				
Model	Dim.(mm) (L*W*H)	G.W.(kg)		
		BL	BLT	
BL(T)150-1-1	1500×560×680	254	266	
BL(T)150-1	1500×560×680	261	273	
BL(T)150-2-2	1700×560×680	296	307	
BL(T)150-2-1	1700×560×680	330	341	
BL(T)150-2	1800×620×680	404	415	
BL(T)150-3-2	1850×620×680	416	427	
BL(T)150-3-1	1850×620×680	430	441	
BL(T)150-3	1850×620×680	430	441	
BL(T)150-4-2	2150×660×680	522	533	
BL(T)150-4-1	2150×660×680	522	533	
BL(T)150-4	2300×770×800	654	665	
BL(T)150-5-2	2440×770×800	665	676	
BL(T)150-5-1	2500×770×800	781	792	
BL(T)150-5	2500×770×800	781	792	
BL(T)150-6-2	2700×770×800	798	809	
BL(T)150-6-1	2700×770×800	798	809	
BL(T)150-6	2700×770×800	798	809	

Pump shaft



Lining



Bearing inner



Shaft seal



Coupling complete



Shaft sleeve



Round sleeve



Base plate



Pump base



Chamber



Pump head



Motor stool



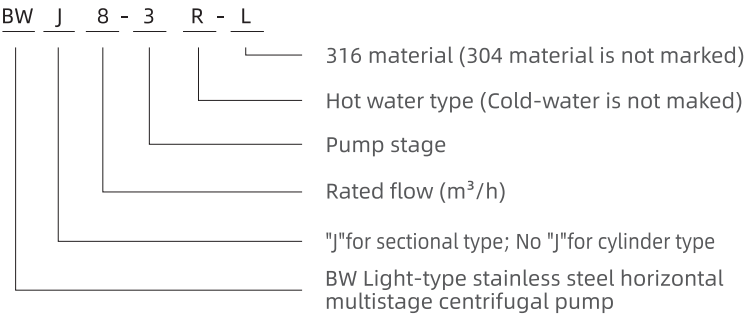
Impeller



Horizontal Multi-Stage Centrifugal Pumps



Model Instruction



Overview Of The Product

BW, BWJ stainless steel horizontal multistage centrifugal pumps are non-self priming pumps absorbing the advanced technology from home and abroad. They are classified into two kinds: cylinder type and sectional type. They adopt horizontal motor and alloy mechanical seal, which makes the replacement more convenient. The overflowing part of the pump is made of stainless steel 304, applicable for light-corrosion medium. Relying on the high efficiency, energy saving performance, reliable quality, wide usable range, our products receive the great popularity after being launched.

Application Limits

- ⦿ Temperature range of medium: Normal type 0 ~ +68°C , hot water type 68°C ~ +120°C
- ⦿ Maximum ambient temperature: +40 °C
- ⦿ Maximum system pressure : 1.0MPa
- ⦿ When the density or viscosity of the transmission medium exceeds that of water, it is necessary to select a drving motor of high-power
- ⦿ pH: 5 to 8

Applications Fields

- Air conditioner system
- Aquaculture
- Cooling System
- Industrial cleansing
- Environmental application
- Water processing(Water purification)
- Fertilization/measuring system
- Other special applications

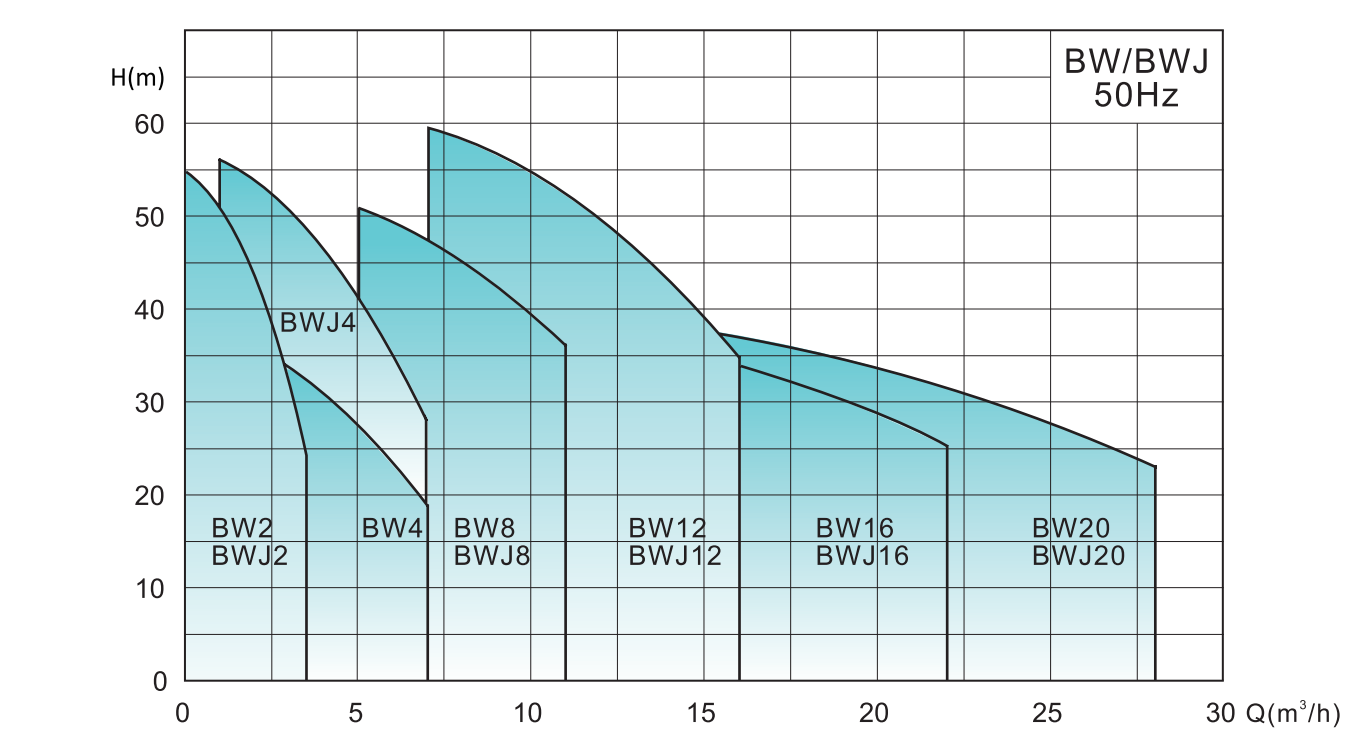
Certificate



Optional Available On Request

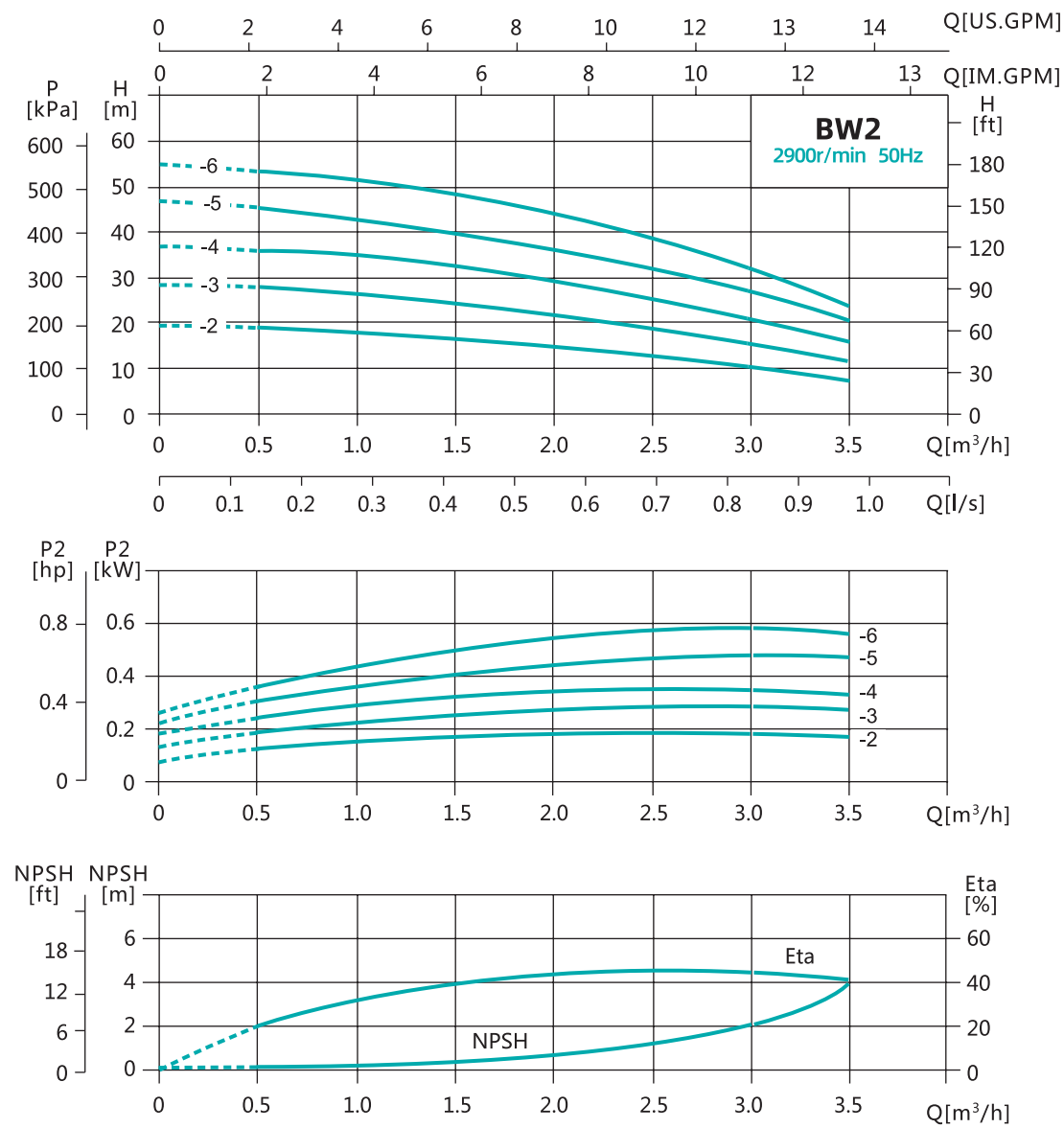
- ⦿ Full-enclosed and ventilating two-pole standard motor
- ⦿ Protection class: IP55
- ⦿ Insulation class: F
- ⦿ Standard voltage (50Hz): Single phase 220V Three phase:380V or 220/380V

Performance Range



Model	BW2/BWJ2	BW4/BWJ4	BW8	BW12	BW16	BWJ8	BWJ12	BWJ16	BW/BWJ20
Rated Flow(m³/h)	2	4	8	12	16	8	12	16	20
Flow Range(m³/h)	0.5~3.5	1~7	5~11	7~16	8~22	5~11	7~16	8~22	10~28
Max.Pressure(bar)	5.5	4	5	5	4	5	5	4	4
Motor Power(kW)	0.37~0.75	0.37~1.1	0.75~2.2	1.2~3	2.2~3	0.75~2.2	1.2~3	2.2~3	1.1~3.5
Max.Efficiency(%)	45	59	64	64	70	64	64	70	70
Inlet	G1	G1 1/4	G2	G2	G2	G1 1/2	G1 1/2	G1 1/2	G2
Outlet	G1	G1	G2	G2	G2	G1 1/4	G1 1/4	G1 1/4	G2
Temperature Range	Standard Type 0 ~ +68°C Hot Water Type 68°C ~ +120°C								

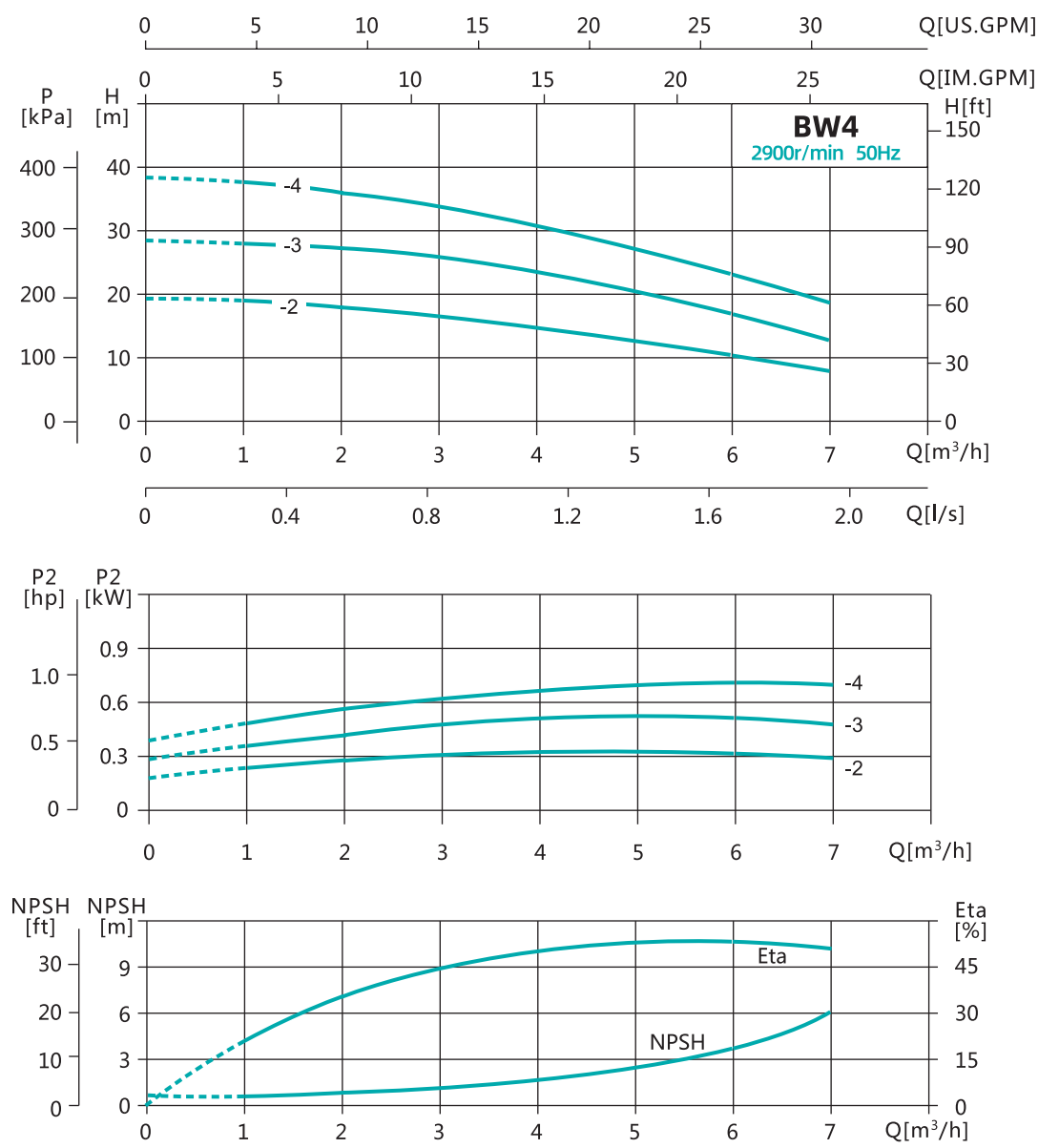
Performance Details-BW2



It is recommended to be used within lift range.

Model	Power		Q (m³/h)	0.5	1.0	1.5	2.0	2.5	3.0	3.5	Head Range (m)
	kW	HP									
BW2-2	0.37	0.5	H(m)	19	18	16.5	15	13	10	7.5	19~7.5
BW2-3	0.37	0.5		28	26.5	24.5	22	19	15.5	12	28~12
BW2-4	0.55	0.75		36	34.5	33	29	25	20.5	16	36~16
BW2-5	0.55	0.75		45.5	43	40	36	31.5	26.5	20.5	45.5~20.5
BW2-6	0.75	1		53.5	51	48	44	39	32	24	53.5~24

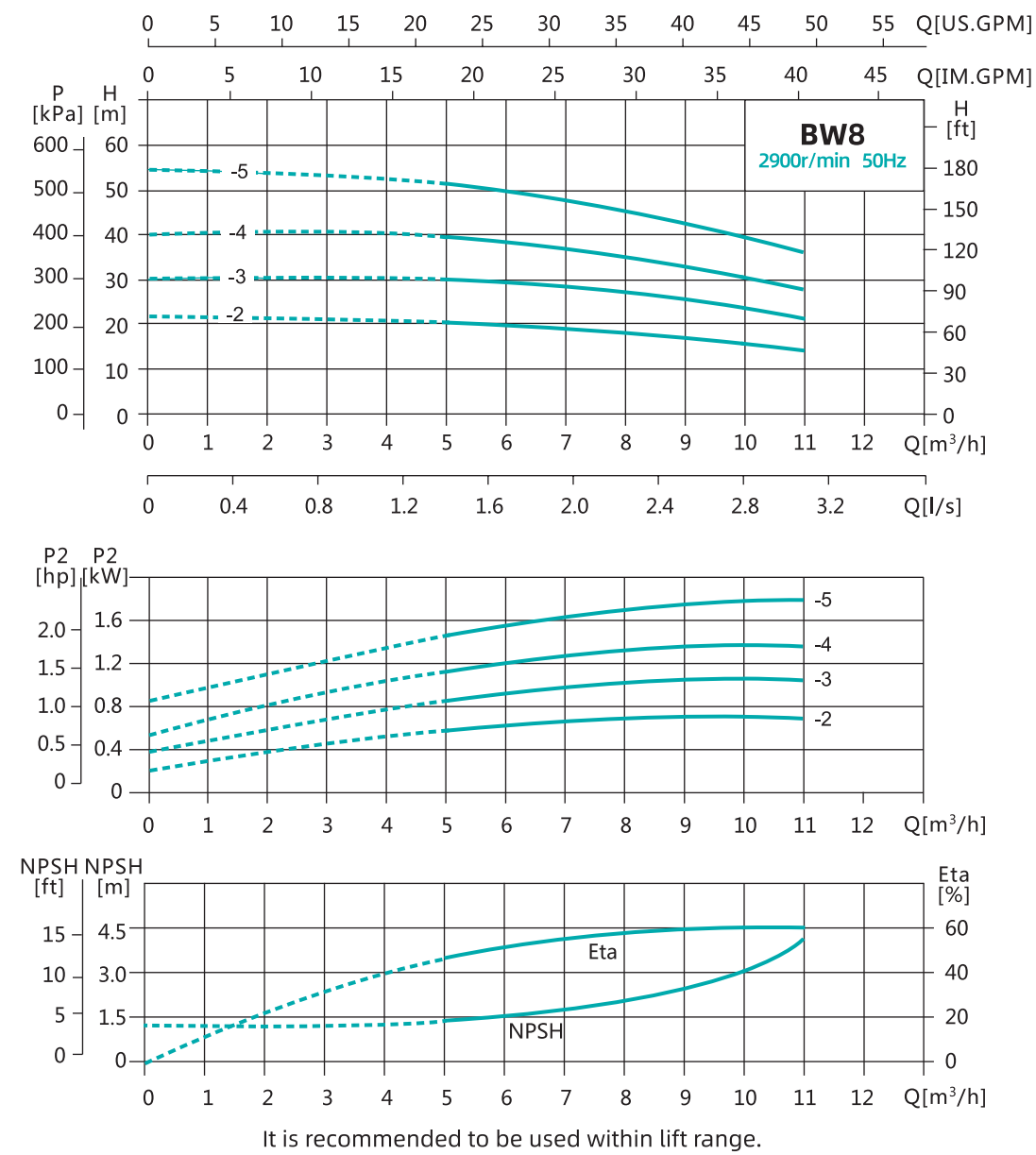
Performance Details-BW4



It is recommended to be used within lift range.

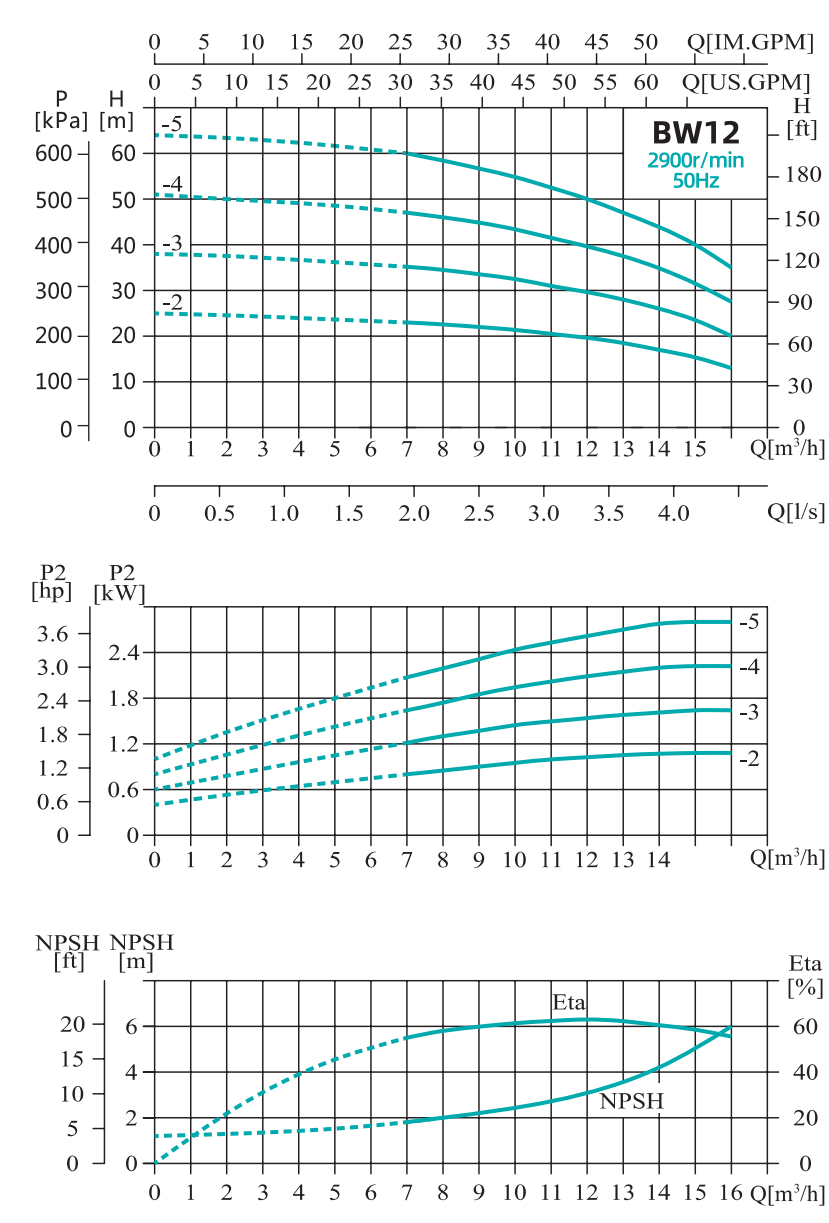
Model	Power		Q (m³/h)	1	2	3	4	5	6	7	Head Range (m)
	kW	HP									
BW4-2	0.37	0.5	H(m)	19	18	17	15	12.5	10	8	19~8
BW4-3	0.55	0.75		28	27	26	23.5	20.5	17	13	28~13
BW4-4	0.75	1		37.5	36	34	31	27	23	19	37.5~19

Performance Details-BW8



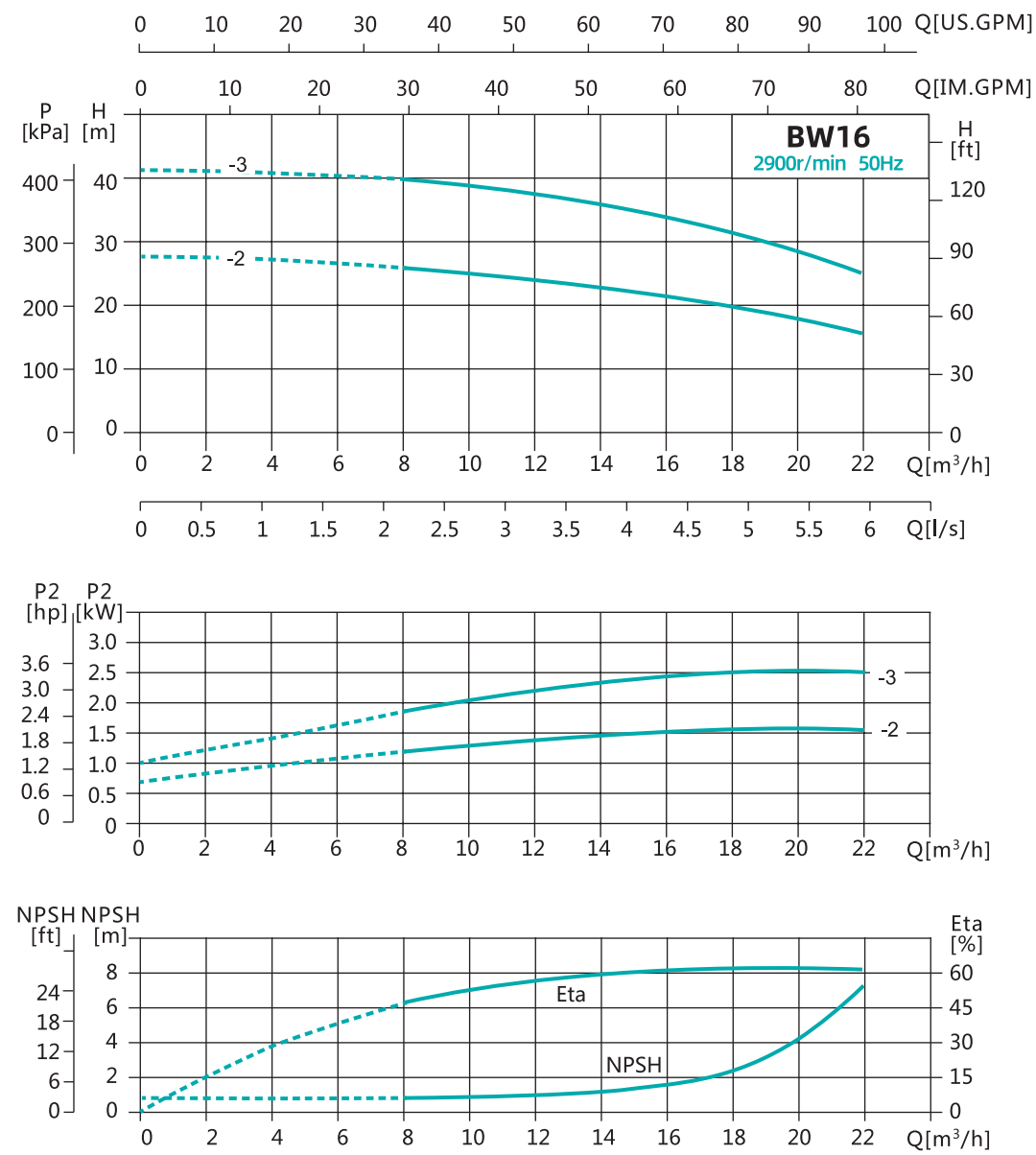
Model	Power		Q (m³/h)	5	6	7	8	9	10	11	Head Range (m)
	kW	HP									
BW8-2	0.75	1	H(m)	20	19.5	19	18	17	15.5	14	20~14
BW8-3	1.1	1.5		29.5	29	28	27	25	23	21	29.5~21
BW8-4	1.5	2		39	38	37	35	33	30.5	27.5	39~27.5
BW8-5	2.2	3		51	49.5	47.5	45	42.5	39.5	36	51~36

Performance Details-BW12



Model	Power		Q (m³/h)	7	8	10	12	14	15	16	Head Range (m)
	kW	HP									
BW12-2	1.2	1.6	H(m)	23.5	23	22	19.5	17	15	14	23.5~14
BW12-3	1.8	2.4		35.5	35	33	29.5	26	23	21	35.5~21
BW12-4	2.4	3.2		47	46	44	39.5	34	31	28	47~28
BW12-5	3	4.0		59.5	58	55	50	43	39	35	59.5~35

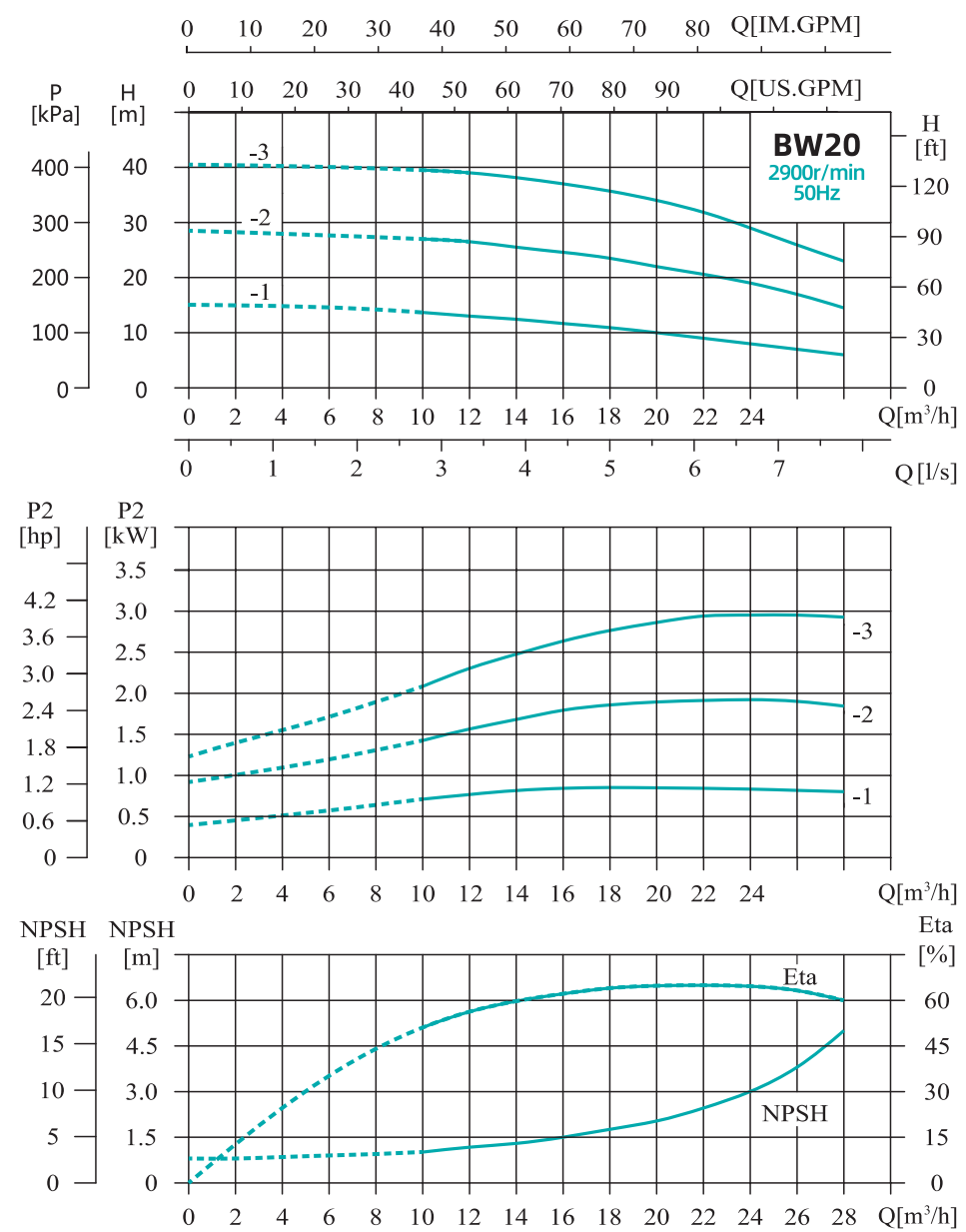
Performance Details-BW16



It is recommended to be used within lift range.

Model	Power		Q (m³/h)	8	10	12	14	16	18	20	22	Head Range (m)
	kW	HP										
BW16-2	2.2	3	H(m)	26	25	24	23	21.7	20	18	15.5	26~15.5
BW16-3	3	4		40	39	38	36	34	31.5	29	25	40~25

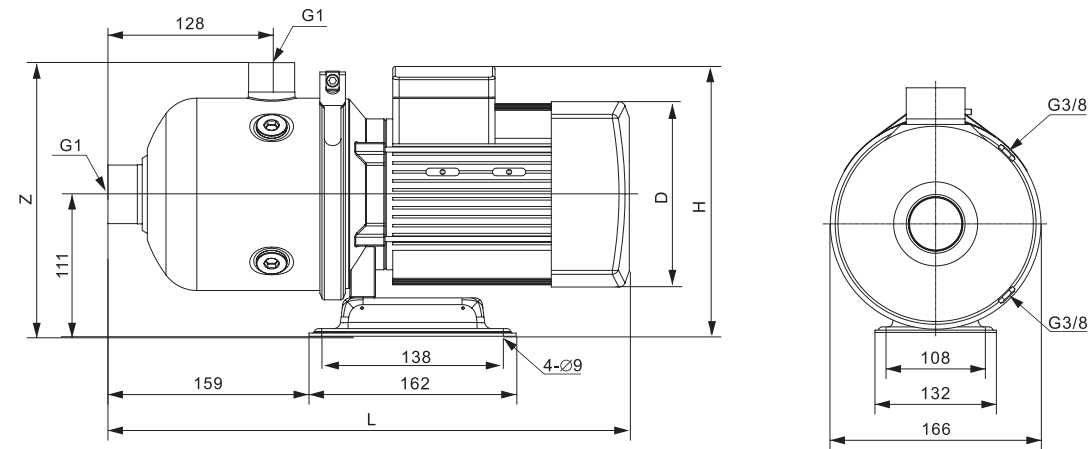
Performance Details-BW20



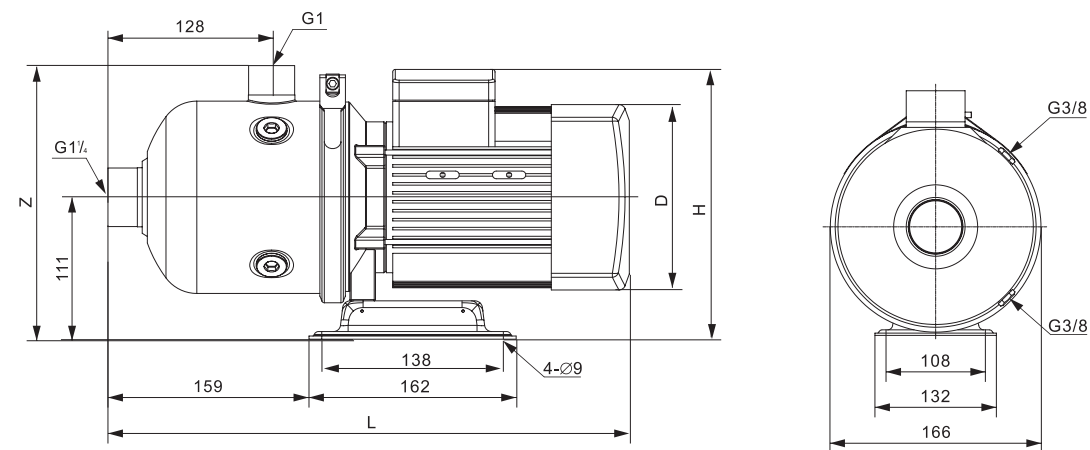
It is recommended to be used within lift range.

Model	Power		Q (m³/h)	10	12	14	16	18	20	22	24	26	28	Head Range (m)
	kW	HP												
BW20-1	1.1	1.5	H(m)	13.5	13	12.5	12	11	10	9	8	7	6	13.5~6
BW20-2	2.2	3		27	26.5	25.5	25	23.5	22	20.5	18.5	17	14.5	27~14.5
BW20-3	3.5	4.7		39.5	39	38	37.5	35.5	34	31.5	29	26	23	39.5~23

Dimensions & Weight

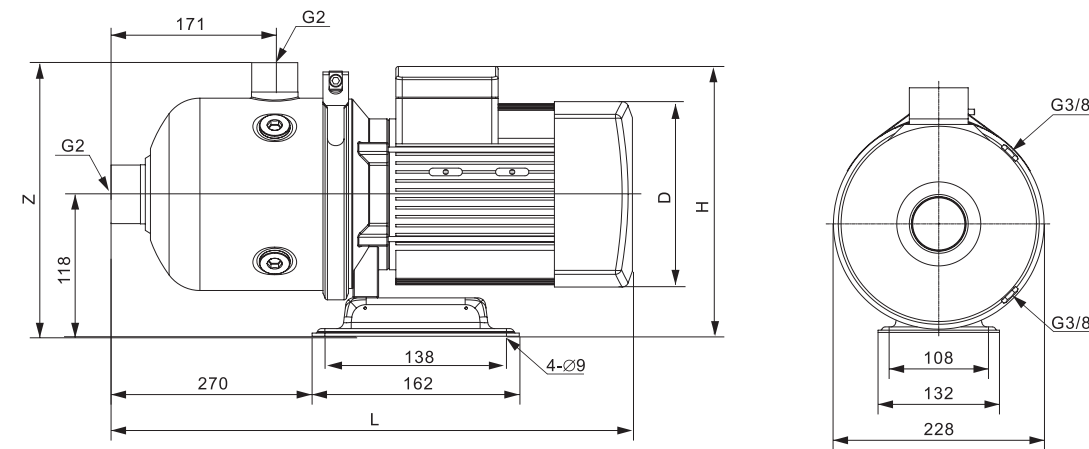


Model	L(mm)	Z(mm)	H(mm)	D(mm)	Weight (kg)
BW2-2	403	214	215	140	9.5
BW2-3	403	214	215	140	10
BW2-4	403	214	215	140	11
BW2-5	403	214	215	140	11
BW2-6	424	215	224	158	13.5

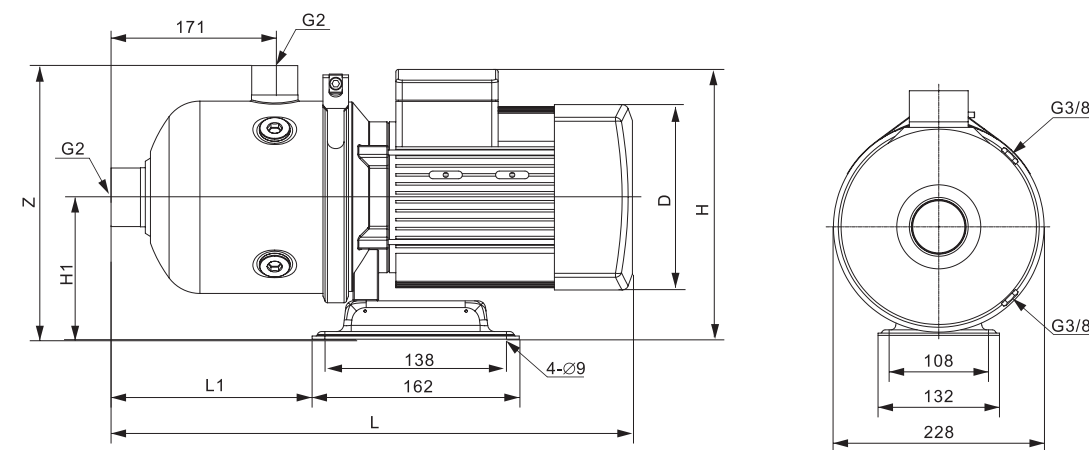


Model	L(mm)	Z(mm)	H(mm)	D(mm)	Weight (kg)
BW4-2	403	214	215	140	9.5
BW4-3	403	214	215	140	11
BW4-4	424	215	224	158	13

Dimensions & Weight

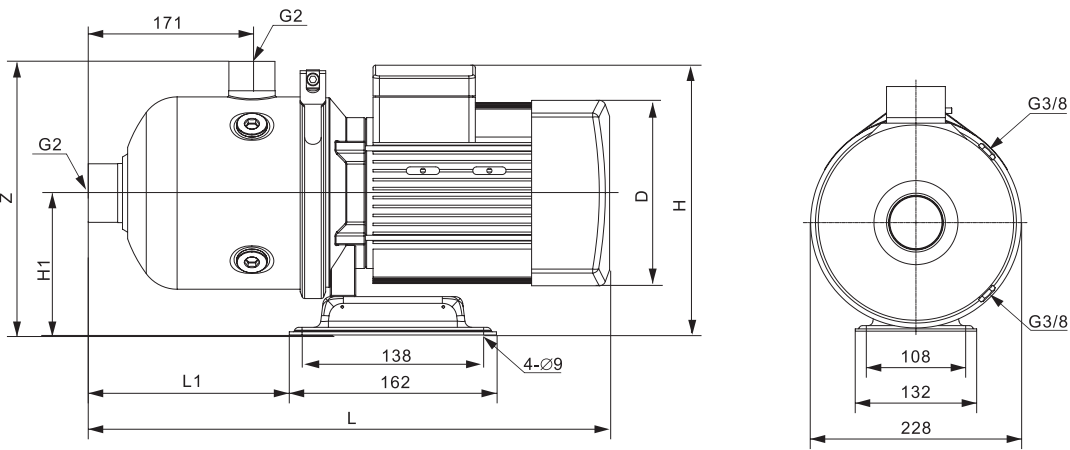


Model	L(mm)	Z(mm)	H(mm)	D(mm)	Weight (kg)
BW8-2	536	266	229	158	15.5
BW8-3	536	266	229	158	17.5
BW8-4	574	266	232	168	21
BW8-5	574	266	232	168	24

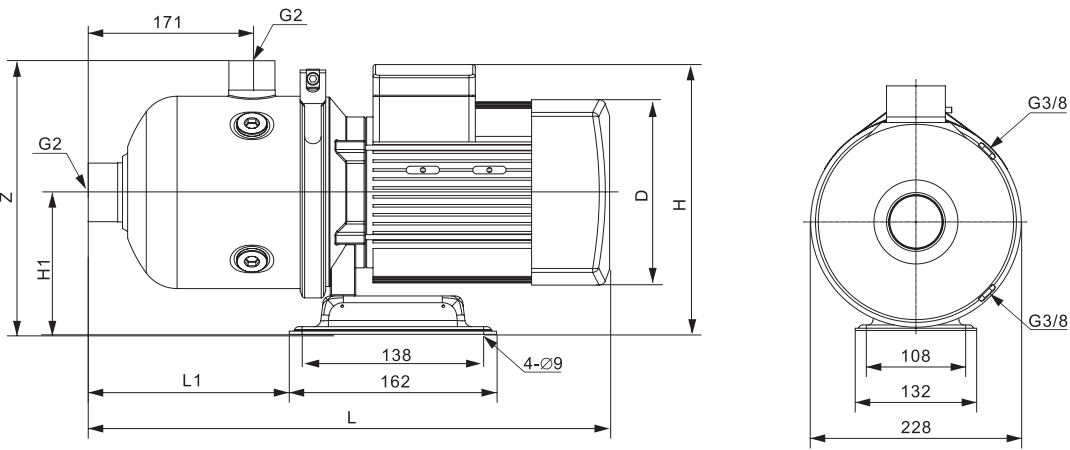


Model	L(mm)	L1(mm)	Z(mm)	H1(mm)	H(mm)	D(mm)	Weight (kg)
BW12-2	536	270	266	118	229	158	19
BW12-3	574	270	266	118	232	168	22
BW12-4	574	270	266	118	232	168	25
BW12-5	603	258	278	130	259	196	29

Dimensions & Weight

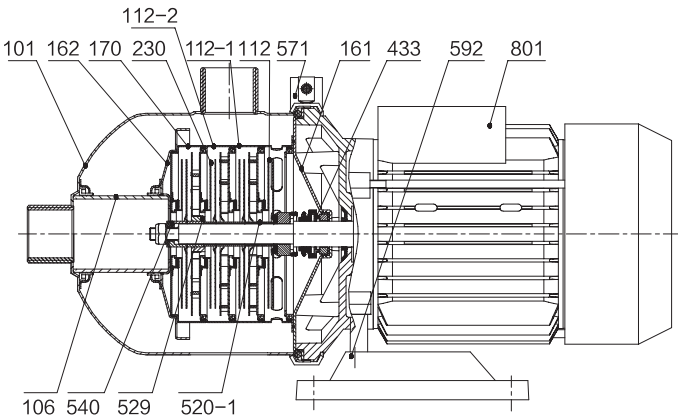


Model	L(mm)	L1(mm)	Z(mm)	H1(mm)	H(mm)	D(mm)	Weight (kg)
BW16-2	574	270	266	118	232	168	22
BW16-3	603	258	278	130	259	196	28



Model	L(mm)	L1(mm)	Z(mm)	H1(mm)	H(mm)	D(mm)	Weight (kg)
BW20-1	536	270	266	118	229	158	17
BW20-2	574	270	266	118	232	168	22
BW20-3	603	258	278	130	259	196	32

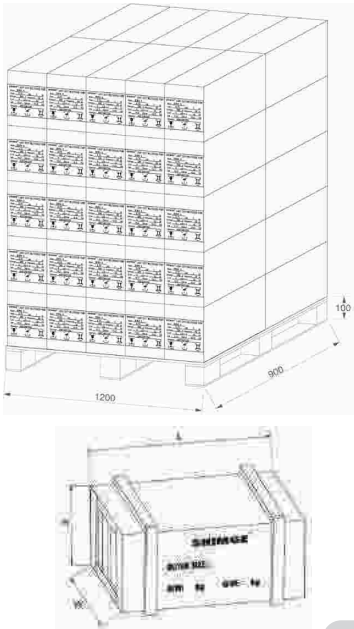
Components & Materials



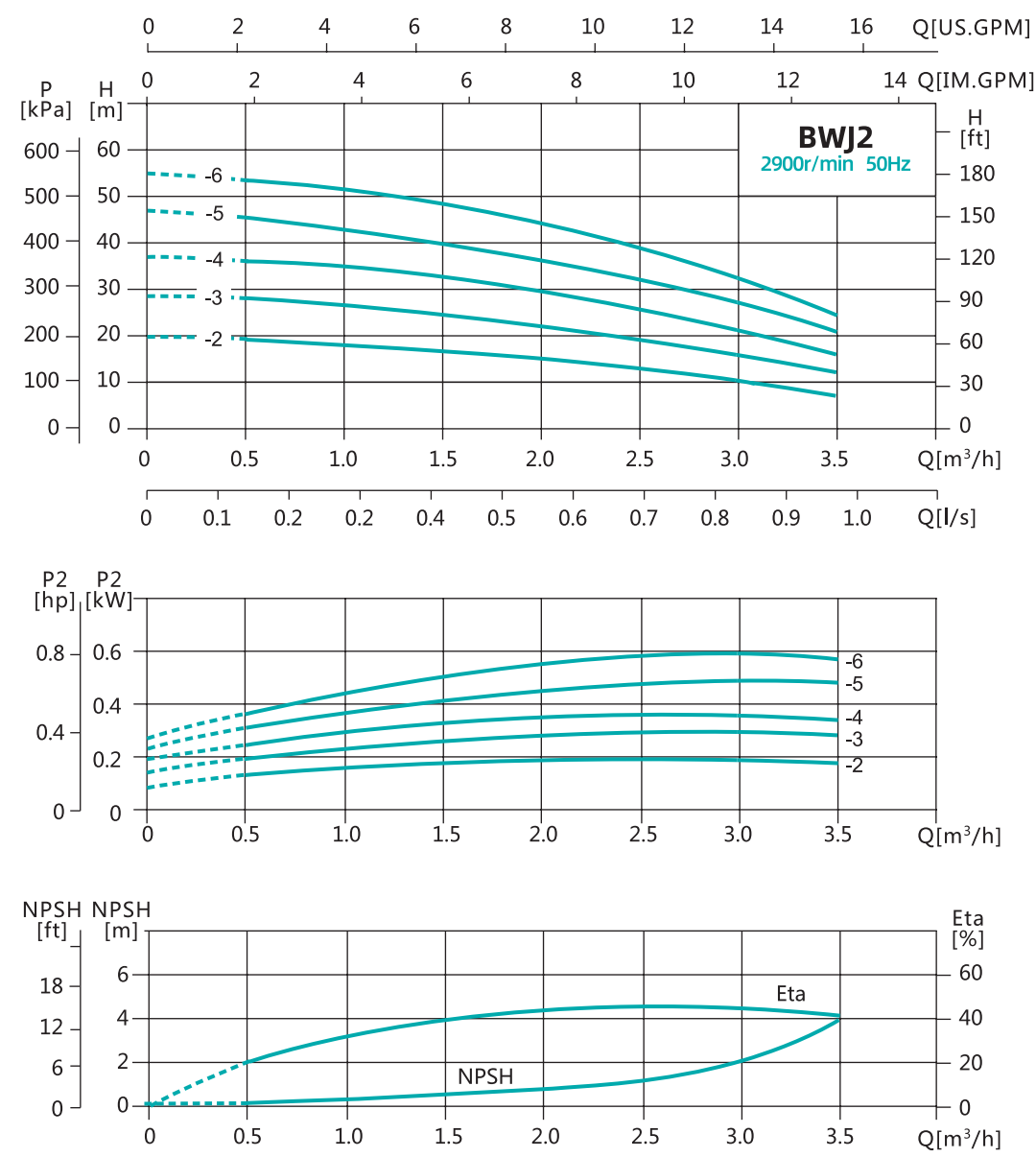
No.	Component	Material
101	Pressure cylinder assembly	304
106	Connecting pipe	304
112	Outlet chamber	304
112-1	Chamber	304
112-2	Chamber with bearing ring	304
161	Pump cover	304
162	Pressing plate assembly	304
170	Inlet chamber	304
230	impeller	304
433	Shaft seal	Assembly
520-1	Oblong sleeve	304
529	Bearing inner race	YN20
540	bushing	304
571	Hoop assembly	304
592	Base plate	Q235A
801	electric machinery	Horizontal motor (extended shaft)

Packing Sizes & Weight

BW					BW				
Model	Dim.(mm)			G.W. (kg)	Model	Dim.(mm)			G.W. (kg)
	L	W	H			L	W	H	
BW2-2	450	245	305	10.5	BW12-2	635	280	330	21
BW2-3	450	245	305	11	BW12-3	635	280	330	24
BW2-4	450	245	305	12	BW12-4	635	280	330	27
BW2-5	450	245	305	12	BW12-5	635	280	330	31
BW2-6	450	245	305	14.5	BW16-2	635	280	330	24
BW4-2	450	245	305	10.5	BW16-3	635	280	330	30
BW4-3	450	245	305	12	BW20-1	635	280	330	19
BW4-4	450	245	305	14	BW20-2	635	280	330	24
BW8-2	635	280	330	17.5	BW20-3	635	280	330	34
BW8-3	635	280	330	19.5					
BW8-4	635	280	330	23					
BW8-5	635	280	330	26					



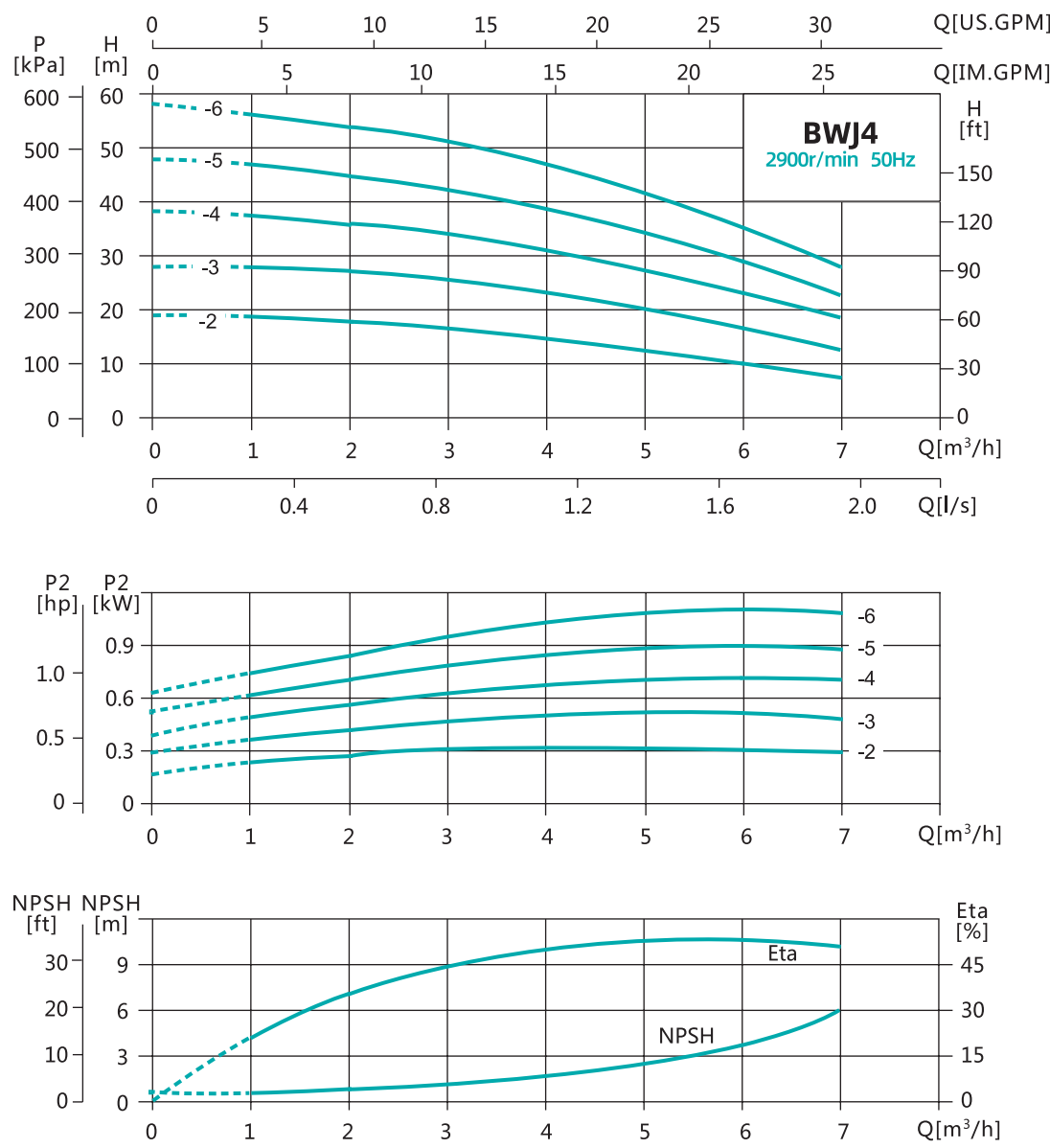
Performance Details-BWJ2



It is recommended to be used within lift range.

Model	Power		Q (m³/h)	0.5	1.0	1.5	2.0	2.5	3.0	3.5	Head Range (m)
	kW	HP									
BWJ2-2	0.37	0.5	H(m)	19	18	16.5	15	13	10	7.5	19~7.5
BWJ2-3	0.37	0.5		28	26.5	24.5	22	19	15.5	12	28~12
BWJ2-4	0.55	0.75		36	34.5	33	29	25	20.5	16	36~16
BWJ2-5	0.55	0.75		45.5	43	40	36	31.5	26.5	20.5	45.5~20.5
BWJ2-6	0.75	1		53.5	51	48	44	39	32	24	53.5~24

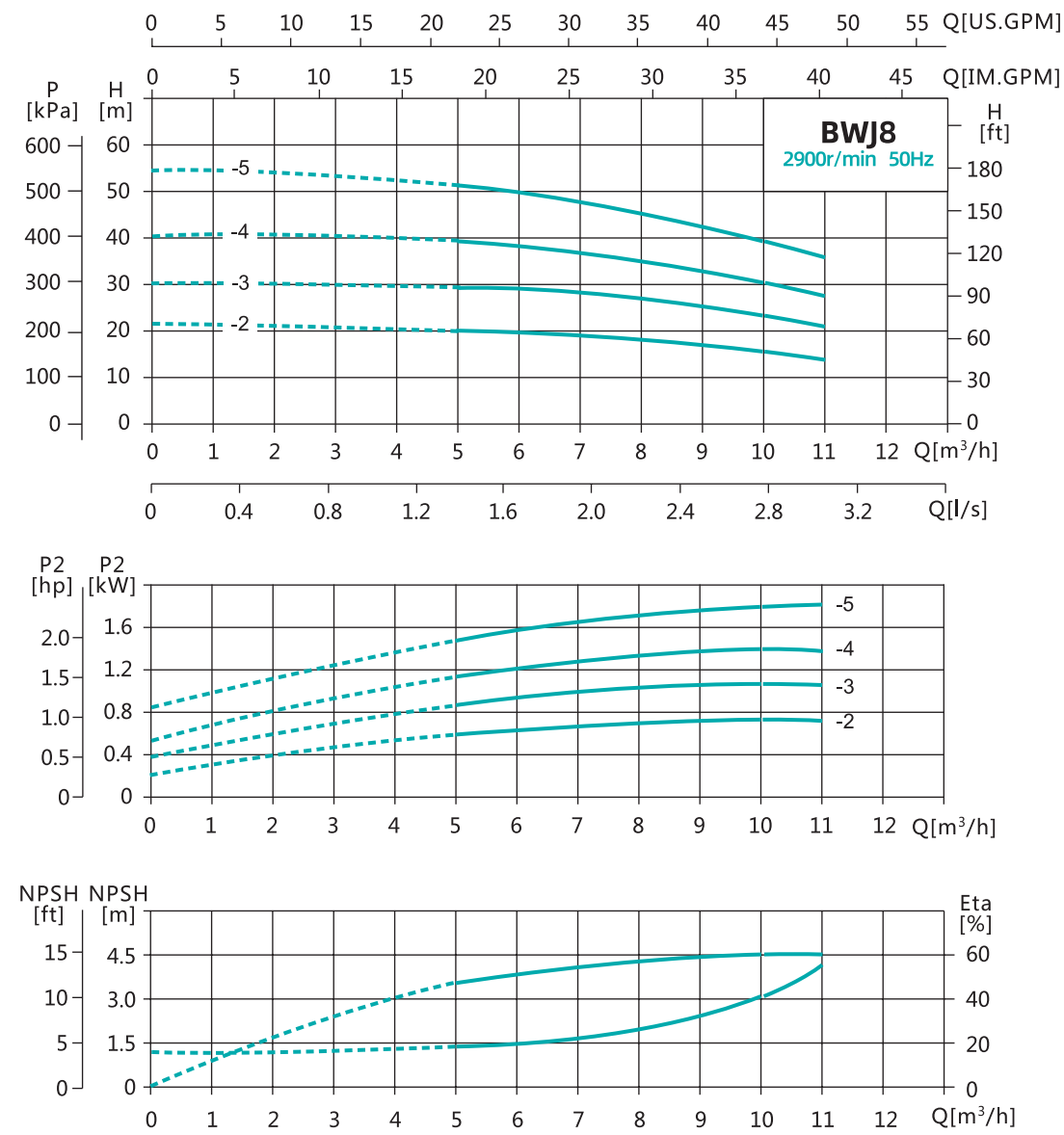
Performance Details-BWJ4



It is recommended to be used within lift range.

Model	Power		Q (m³/h)	1	2	3	4	5	6	7	Head Range (m)
	kW	HP									
BWJ4-2	0.37	0.5	H(m)	19	18	17	15	12.5	10	8	19~8
BWJ4-3	0.55	0.75		28	27	26	23.5	20.5	17	13	28~13
BWJ4-4	0.75	1		37.5	36	34	31	27	23	19	37.5~19
BWJ4-5	1.1	1.5		47	45	42.5	39	34	29	23	47~23
BWJ4-6	1.1	1.5		56	54	51	47	41.5	35.5	28	56~28

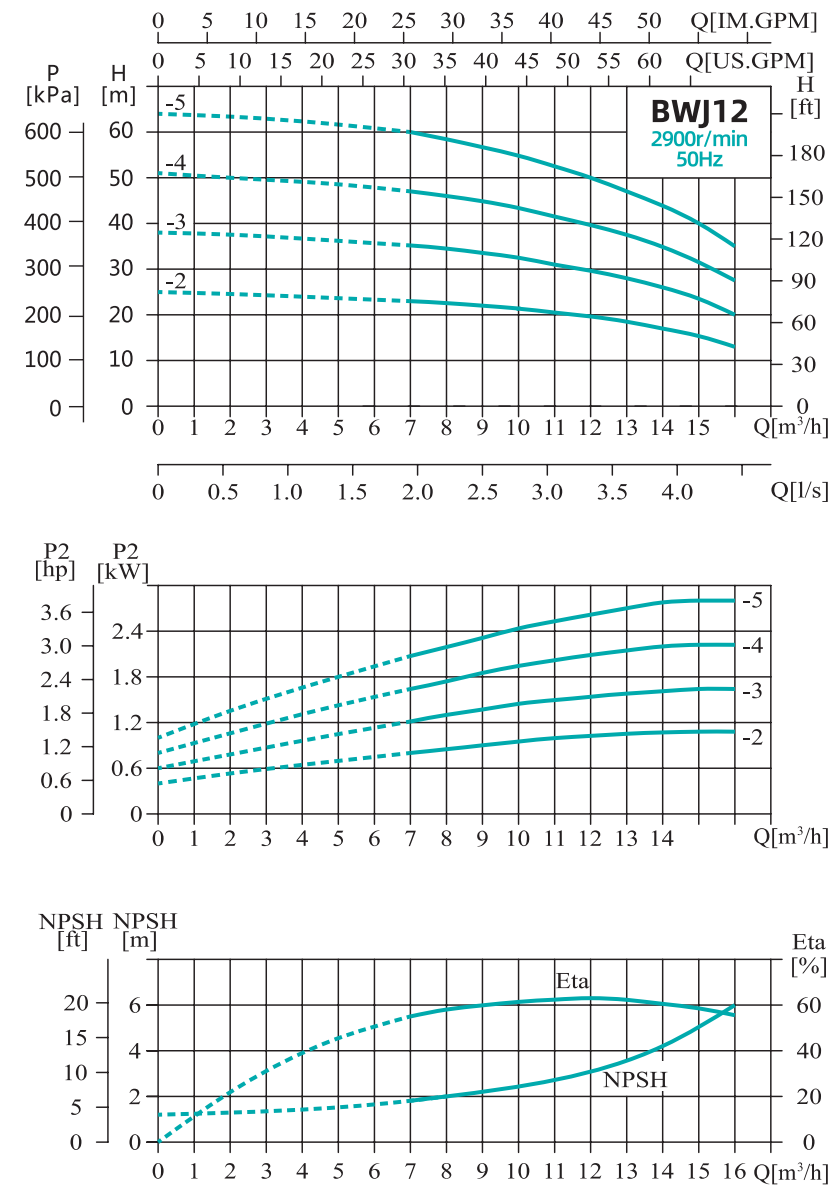
Performance Details-BWJ8



It is recommended to be used within lift range.

Model	Power		Q (m³/h)	5	6	7	8	9	10	11	Head Range (m)
	kW	HP									
BWJ8-2	0.75	1	H(m)	20	19.5	19	18	17	15.5	14	20~14
BWJ8-3	1.1	1.5		29.5	29	28	27	25	23	21	29.5~21
BWJ8-4	1.5	2		39	38	37	35	33	30.5	27.5	39~27.5
BWJ8-5	2.2	3		51	49.5	47.5	45	42.5	39.5	36	51~36

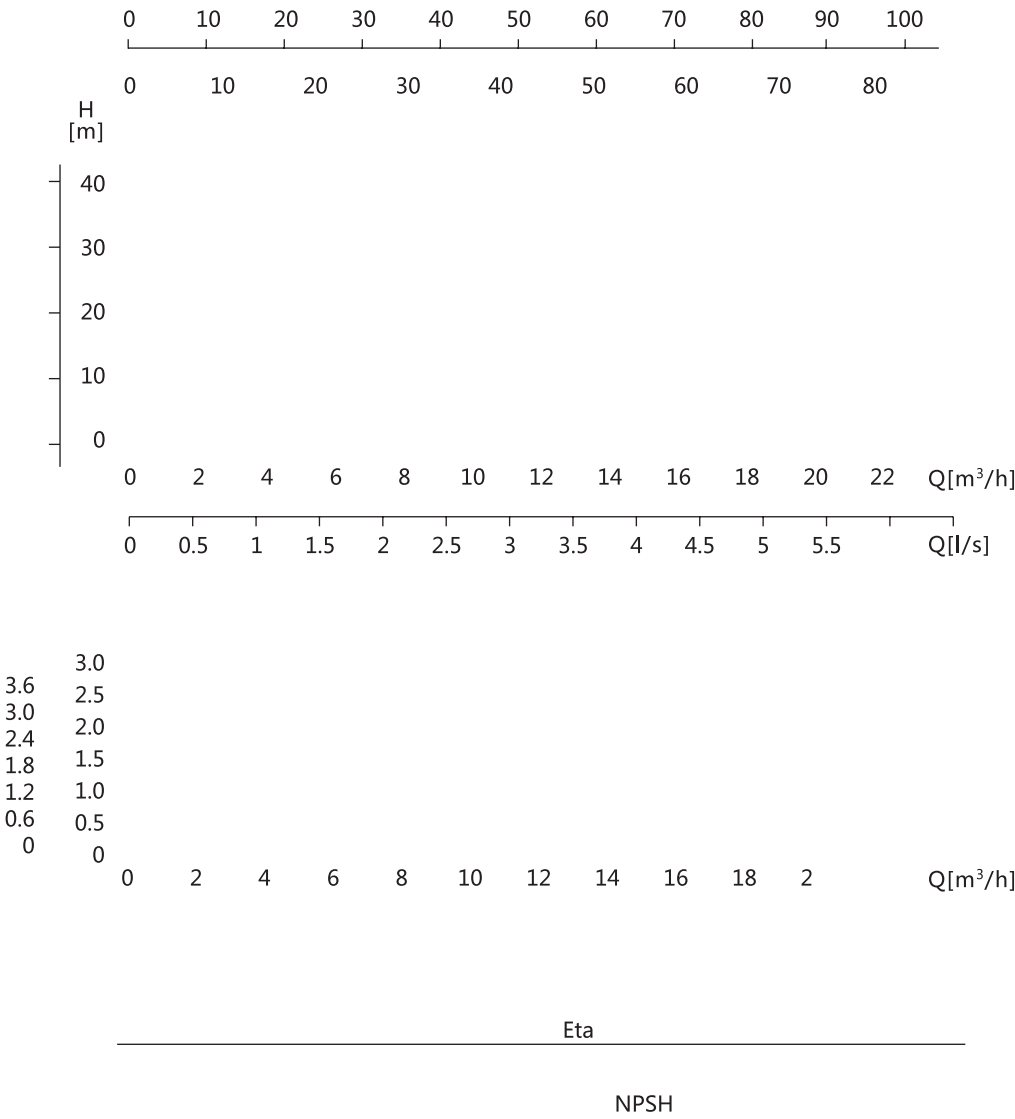
Performance Details-BWJ12



It is recommended to be used within lift range.

Model	Power		Q (m³/h)	7	8	10	12	14	15	16	Head Range (m)
	kW	HP									
BWJ12-2	1.2	1.6	H(m)	23.5	23	22	19.5	17	15	14	23.5~14
BWJ12-3	1.8	2.4		35.5	35	33	29.5	26	23	21	35.5~21
BWJ12-4	2.4	3.2		47	46	44	39.5	34	31	28	47~28
BWJ12-5	3	4.0		59.5	58	55	50	43	39	35	59.5~35

Performance Details-BWJ16



It is recommended to be used within lift range.

Model	Power		Q (m³/h)	8	10	12	14	16	18	20	22	Head Range (m)
	kW	HP										
BWJ16-2	2.2	3	H(m)	26	25	24	23	21.7	20	18	15.5	26~15.5
BWJ16-3	3	4		40	39	38	36	34	31.5	29	25	40~25

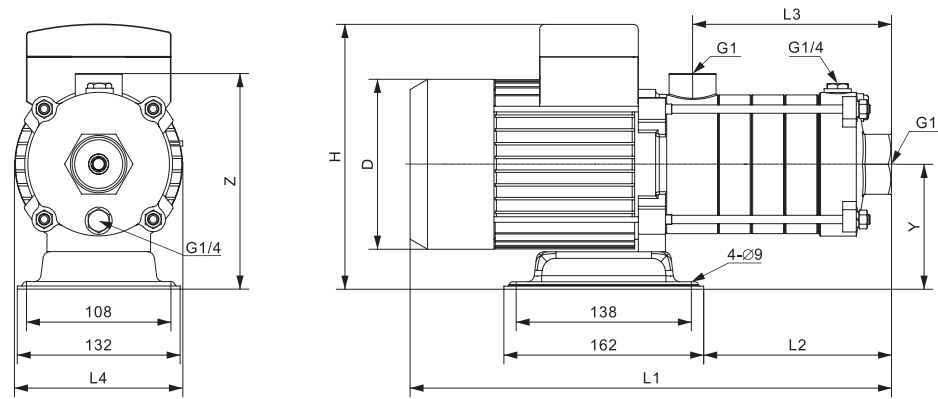
Performance Details-BWJ20



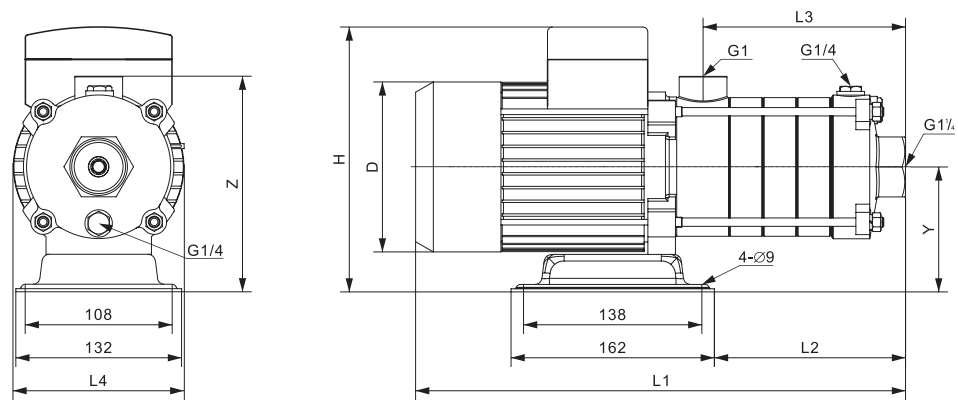
It is recommended to be used within lift range.

Model	Power		Q (m³/h)	10	12	14	16	18	20	22	24	26	28	Head Range (m)
	kW	HP												
BWJ20-1	1.1	1.5	H(m)	13.5	13	12.5	12	11	10	9	8	7	6	13.5~6
BWJ20-2	2.2	3		27	26.5	25.5	25	23.5	22	20.5	18.5	17	14.5	27~14.5
BWJ20-3	3.5	4.7		39.5	39	38	37.5	35.5	34	31.5	29	26	23	39.5~23

Dimensions & Weight

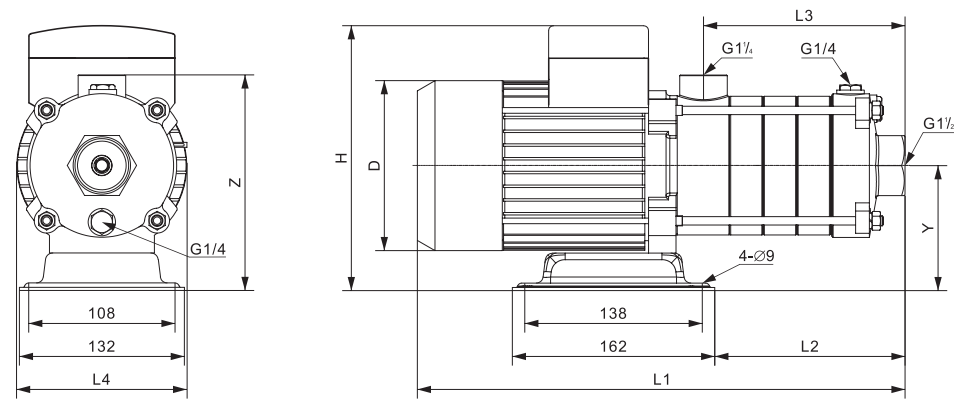


Model	L1(mm)	L2(mm)	Z(mm)	Y(mm)	L3(mm)	H(mm)	D(mm)	L4(mm)	Weight (kg)
BWJ2-2	321	79	173	100	87	203	140	140	9.5
BWJ2-3	339	97	173	100	105	203	140	140	10
BWJ2-4	357	115	173	100	123	203	140	140	10.5
BWJ2-5	375	133	173	100	141	203	140	140	10.5
BWJ2-6	440	158	183	110	159	223	158	158	13

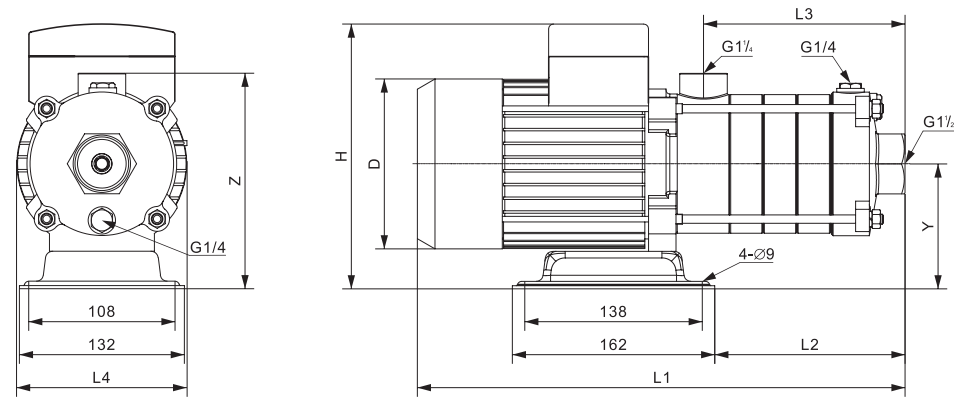


Model	L1(mm)	L2(mm)	Z(mm)	Y(mm)	L3(mm)	H(mm)	D(mm)	L4(mm)	Weight (kg)
BWJ4-2	340	98	173	100	106	203	140	140	9.5
BWJ4-3	367	125	173	100	133	203	140	140	10.5
BWJ4-4	441	159	183	110	160	223	158	158	13
BWJ4-5	469	187	184	111	188	223	158	158	14.5
BWJ4-6	496	214	184	111	215	223	158	158	15

Dimensions & Weight

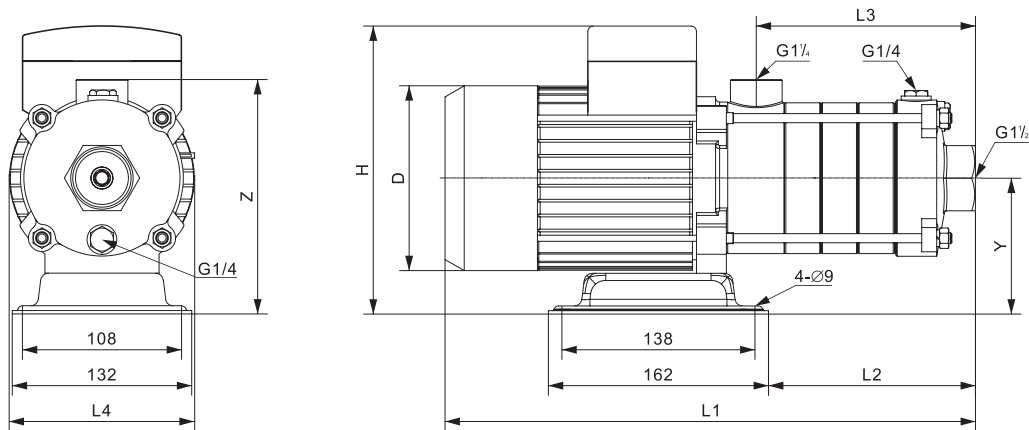


Model	L1(mm)	L2(mm)	Z(mm)	Y(mm)	L3(mm)	H(mm)	D(mm)	L4(mm)	Weight (kg)
BWJ8-2	405	120	223	118	108	230	158	158	16.5
BWJ8-3	437	152	223	118	140	230	158	158	18.5
BWJ8-4	492	183	223	118	172	232	168	168	21
BWJ8-5	524	215	223	118	204	232	168	168	24

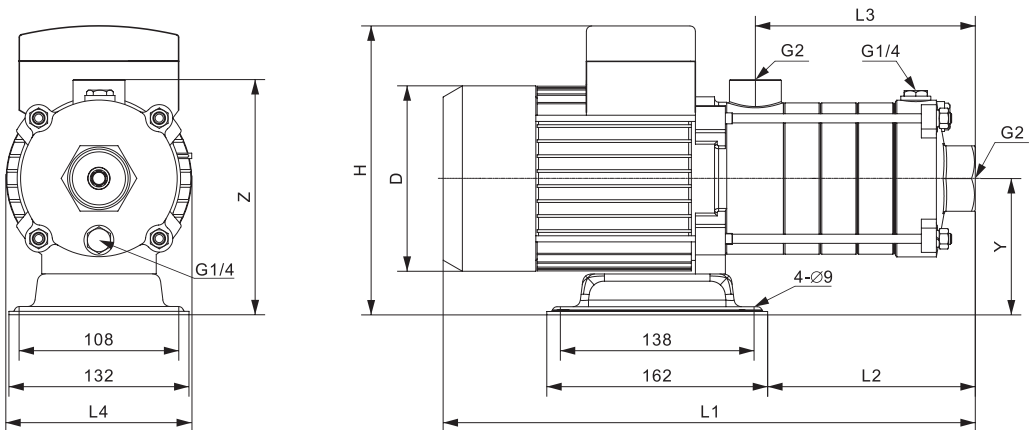


Model	L1(mm)	L2(mm)	Z(mm)	Y(mm)	L3(mm)	H(mm)	D(mm)	L4(mm)	Weight (kg)
BWJ12-2	405	120	223	118	108	230	158	158	16.5
BWJ12-3	460	151	223	118	140	232	168	168	21
BWJ12-4	492	183	223	118	172	232	168	168	28
BWJ12-5	556	209	235	130	204	262	196	196	30

Dimensions & Weight

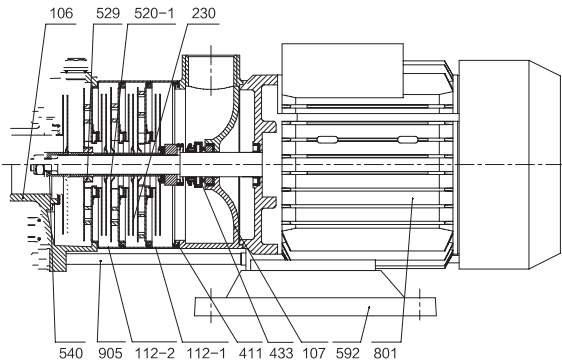


Model	L1(mm)	L2(mm)	Z(mm)	Y(mm)	L3(mm)	H(mm)	D(mm)	L4(mm)	Weight (kg)
BWJ16-2	441	132	223	118	121	232	168	168	21
BWJ16-3	518	213	235	130	166	262	196	196	28



Model	L1(mm)	L2(mm)	Z(mm)	Y(mm)	L3(mm)	H(mm)	D(mm)	L4(mm)	Weight (kg)
BWJ20-1	391	106	223	118	85	230	158	158	16
BWJ20-2	459	150	223	118	130	232	168	168	21
BWJ20-3	536	189	235	130	175	262	196	196	33

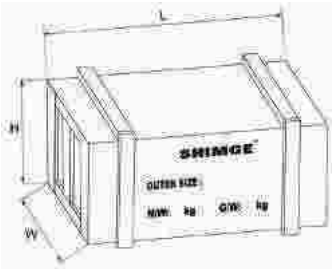
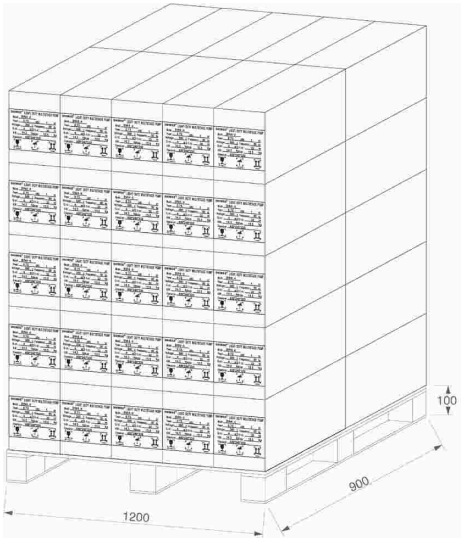
Components & Materials



No.	Component	Material
106	Water inlet shell	304
107	Water outlet shell	304
112-1	Chamber	304
112-2	Chamber with bearing ring	304
230	Impeller	304
411	Sealing washer	Rubber, highland barley paper
433	Shaft seal	Assembly
520-1	Oblong sleeve	304
529	Bearing ring	YN20
540	Bush	304
592	Base plate	Q235A
801	Electric machinery	Horizontal motor (extended shaft)
905	Pull rod	45 # chrome plating

Packing Sizes & Weight

BWJ				
Model	Dim.(mm)			G.W.(kg)
	L	W	H	
BWJ2-2	390	245	305	10.5
BWJ2-3	390	245	305	11
BWJ2-4	390	245	305	11.5
BWJ2-5	390	245	305	11.5
BWJ2-6	550	245	305	14
BWJ4-2	390	245	305	10.5
BWJ4-3	390	245	305	11.5
BWJ4-4	550	245	305	14
BWJ4-5	550	245	305	15.5
BWJ4-6	550	245	305	16
BWJ8-2	635	280	330	18
BWJ8-3	635	280	330	20
BWJ8-4	635	280	330	23
BWJ8-5	635	280	330	26
BWJ12-2	635	280	330	18
BWJ12-3	635	280	330	23
BWJ12-4	635	280	330	30
BWJ12-5	635	280	330	31
BWJ16-2	635	280	330	22
BWJ16-3	635	280	330	30
BWJ20-1	635	280	330	18
BWJ20-2	635	280	330	23
BWJ20-3	635	280	330	34



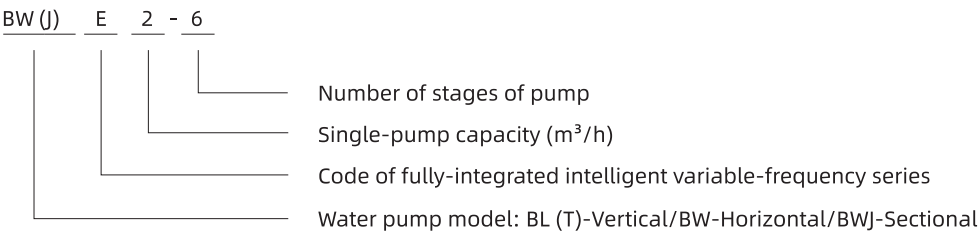
Fully integrated pump variable frequency pump



BWE

BLE

Model Instruction



Product Overview

The fully-integrated intelligent variable-frequency pump is a new generation of equipment for pressurized water supply, highly integrated by the newly-developed frequency controllers and water pumps and pressure tanks of the Company, presenting a beautiful appearance and reaching an international advanced level. Such pump has capacities of artificial intelligence and automatic adjustment to meet the user's demand for constant-pressure and variable-frequency water supply, which can help to keep constant the pressure of the water supply network and the whole system always at the best energy-efficient state.

Application

- ⊙ Domestic water for residents: pressurization on the roof of high-rise buildings, apartments, and villas etc.
- ⊙ Public places: schools, restaurants, stations, hospitals, and stadiums etc.
- ⊙ Commercial buildings: hotels, office buildings, and department stores etc.
- ⊙ Irrigation: farms, fruit gardens, and parks etc.
- ⊙ Industry: manufacturing, food industry, industrial water, and other places needing constant-pressure water supply etc.

Applications Fields

- ⊙ Operating voltage: AC220V±10% at 50HZ, with phase-to-phase imbalance less than 2%;
- ⊙ Ambient temperature: -5° C ~ 40° C;
- ⊙ Altitude of installation site: no higher than 1,000m;
- ⊙ Ambient humidity: 10-90%RH (non-condensing);
- ⊙ No medium with explosion hazard in ambient air and no medium containing any gas or conductive dust which can corrode metal or damage insulation; application in environment of which the pollution degree is 2.

Certificate



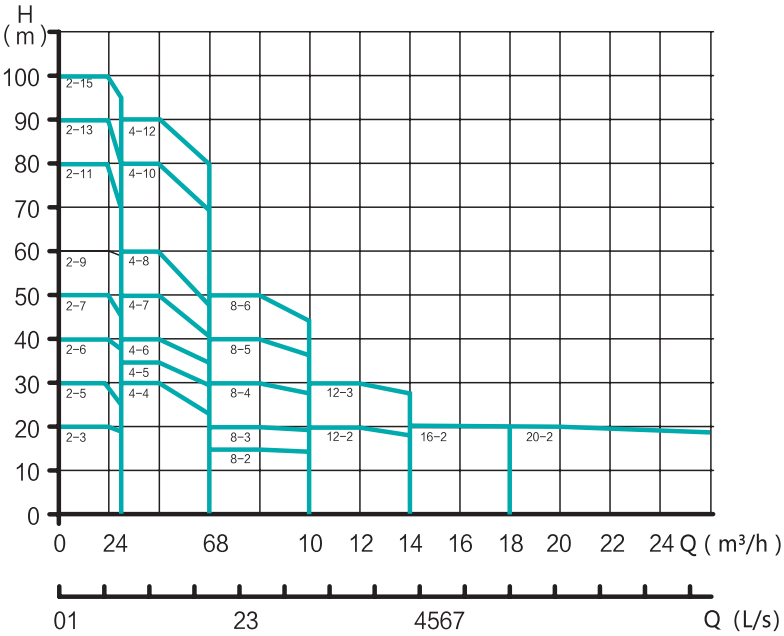
Functions

- ⊙ When using water, the system will present its constant-pressure and variable-frequency control, while it will automatically maintain pressure and stop in case of no water used.
- ⊙ The fluctuation range of the operating pressure of variable-frequency pump shall be no more than 0.01MPa.
- ⊙ The pump will stop working in case of idling without water.
- ⊙ It is able to inspect several faults concerning disconnection, overcurrent, overload, and grounding.

Features

- ◎ Frequency converter: IP65, safe and reliable
- ◎ High level of integration: The water pump is integrated with the frequency converter, so it is small in size and can be installed easily and save space.
- ◎ Full-automatic control: The product can automatically adjust its operating state on the basis of the pressure of the network of the user, to achieve its best working state and make the system energy-saving. When no water is used, automatic pressure maintenance and sleep will be realized and, therefore, the energy-saving effect is quite obvious. In case of failure of water pump, real-time tracking, judgement, and treatment will be carried out automatically.
- ◎ Easy and convenient operation: The man-machine interaction can be achieved directly via the keys and the display on the frequency converter. The user can make settings relating to pressure on the basis of its actual operating conditions and obtain the relevant information. In the event of any abnormality, the information about such an abnormality can be got as well.
- ◎ Constant-power operation: When the controller reaches the power limit, adjustment will be done on the basis of the actual operation, so as to keep the output power unchanged and protect the motor on the premises that the water consumption by the user is guaranteed to the greatest extend.

Equipment spectrum



Action Description

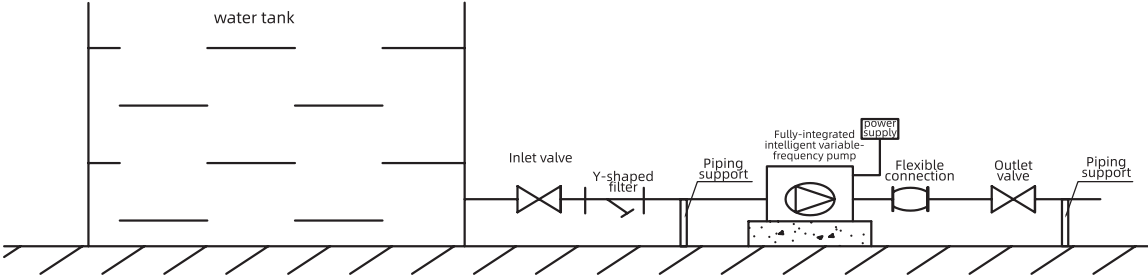
◎ The automatic identification module senses the pressure of the system via a pressure sensor and compares it with the set pressure, and then outputs a continuous analog signal to the frequency converter which changes the operating frequency of the motor on the basis of the change of the analog signal, to finally meet the demand for constant-pressure water supply. When the user’s water consumption is large, the rotational speed will increase automatically and the power will be increased accordingly to satisfy the demand for constant-pressure water supply. If no water is used, the system will go to sleep automatically after the set pressure is reached. Where the user uses little water or the water pressure decreases to 80% due to leakage of the piping, the frequency controller will send out a signal to order the motor to operate and then make up for pressure until the set pressure is reached again, to maximize energy saving.

Performance Parameters

No	Model	Input voltage	Constant pressure value set (Bar)	The factory set constant value (rated pressure) Bar	Inlet diameter	Outlet diameter	Single pump power	The highest lift (zero flow) m	Rated flow m³/h	Pressure tank volume L
A01	BWE2-6	220V/380V	0.5-4	4	G1	G1	0.75	56	2	3
A02	BWE4-4	220V/380V	0.5-3	3	G1¼	G1	0.75	38	4	3
A03	BWE8-2	220V/380V	0.5-1.5	1.5	G2	G2	0.75	22	8	5
A04	BWE8-3	220V/380V	0.5-2	2	G2	G2	1.1	32	8	5
A05	BWE8-4	220V/380V	0.5-3	3	G2	G2	1.5	43	8	5
A06	BWE8-5	220V/380V	0.5-4	4	G2	G2	2.2	54	8	5
A07	BWE12-2	220V/380V	0.5-2	2	G2	G2	1.2	23	12	5
A08	BWE12-3	220V/380V	0.5-3	3	G2	G2	1.8	35	12	5
A09	BWE16-2	220V/380V	0.5-2	2	G2	G2	2.2	27	16	5
A10	BWE20-1	220V/380V	0.5-1	1	G2	G2	1.1	13	20	5
A11	BWE20-2	220V/380V	0.5-2	2	G2	G2	2.2	26.5	20	5
A12	BWJE2-6	220V/380V	0.5-4	4	G1	G1	0.75	56	2	3
A13	BWJE4-4	220V/380V	0.5-3	3	G1¼	G1	0.75	38	4	3
A14	BWJE4-5	220V/380V	0.5-3.5	3.5	G1¼	G1	1.1	47	4	3
A15	BWJE4-6	220V/380V	0.5-4.5	4.5	G1¼	G1	1.1	57	4	3
A16	BWJE8-2	220V/380V	0.5-1.5	1.5	G1 ½	G1¼	0.75	22	8	5
A17	BWJE8-3	220V/380V	0.5-2	2	G1 ½	G1¼	1.1	32	8	5
A18	BWJE8-4	220V/380V	0.5-3	3	G1 ½	G1¼	1.5	43	8	5
A19	BWJE8-5	220V/380V	0.5-4	4	G1 ½	G1¼	2.2	54	8	5
A20	BWJE12-2	220V/380V	0.5-2	2	G1 ½	G1¼	1.2	23	12	5
A21	BWJE12-3	220V/380V	0.5-3	3	G1 ½	G1¼	1.8	35	12	5
A22	BWJE16-2	220V/380V	0.5-2	2	G1 ½	G1¼	2.2	27	16	5
A23	BWJE20-1	220V/380V	0.5-1	1	G2	G2	1.1	13	20	5
A24	BWJE20-2	220V/380V	0.5-2	2	G2	G2	2.2	26.5	20	5
B01	BL(T)E2-6	220V/380V	0.5-4	4	DN25	DN25	0.75	58	2	3
B02	BL(T)E2-7	220V/380V	0.5-5	5	DN25	DN25	0.75	68	2	3
B03	BL(T)E2-9	220V/380V	0.5-6	6	DN25	DN25	1.1	87	2	5
B04	BL(T)E2-11	220V/380V	0.5-8	8	DN25	DN25	1.1	106	2	5
B05	BL(T)E2-13	220V/380V	0.5-9	9	DN25	DN25	1.5	124	2	5
B06	BL(T)E2-15	220V/380V	0.5-10	10	DN25	DN25	1.5	138	2	5
B07	BL(T)E4-4	220V/380V	0.5-3	3	DN32	DN32	0.75	38	4	3
B08	BL(T)E4-5	220V/380V	0.5-3.5	3.5	DN32	DN32	1.1	47	4	3
B09	BL(T)E4-6	220V/380V	0.5-4	4	DN32	DN32	1.1	58	4	3
B10	BL(T)E4-7	220V/380V	0.5-5	5	DN32	DN32	1.5	69	4	3
B11	BL(T)E4-8	220V/380V	0.5-6	6	DN32	DN32	1.5	78	4	5
B12	BL(T)E4-10	220V/380V	0.5-8	8	DN32	DN32	2.2	96	4	5
B13	BL(T)E4-12	220V/380V	0.5-9	9	DN32	DN32	2.2	117	4	5
B14	BL(T)E8-2	220V/380V	0.5-1.5	1.5	DN40	DN40	0.75	22	8	5
B15	BL(T)E8-3	220V/380V	0.5-2	2	DN40	DN40	1.1	32	8	5
B16	BL(T)E8-4	220V/380V	0.5-3	3	DN40	DN40	1.5	42	8	5
B17	BL(T)E8-5	220V/380V	0.5-4	4	DN40	DN40	2.2	53	8	5
B18	BL(T)E8-6	220V/380V	0.5-5	5	DN40	DN40	2.2	62	8	5
B19	BL(T)E12-2	220V/380V	0.5-2	2	DN50	DN50	1.5	26	12	5
B20	BL(T)E12-3	220V/380V	0.5-3	3	DN50	DN50	2.2	38	12	5
B21	BL(T)E16-2	220V/380V	0.5-2	2	DN50	DN50	2.2	28	16	5
B22	BL(T)E20-2	220V/380V	0.5-2	2	DN50	DN50	2.2	30	20	5

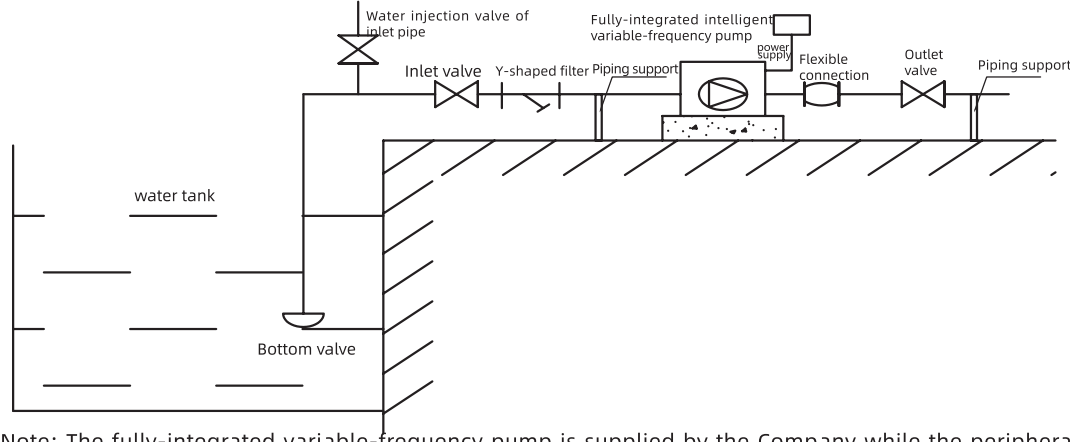
Installation Diagram

Positive-pressure Water Inlet :



Note: The fully-integrated variable-frequency pump is supplied by the Company while the peripheral pipes and other facilities are to be installed by the user itself.

Negative-pressure Water Inlet :



Note: The fully-integrated variable-frequency pump is supplied by the Company while the peripheral pipes and other facilities are to be installed by the user itself.

Instructions for Installation

- ◎ When the pump is installed indoors, there should be no water drop, metal dust, oily dirt, corrosive/flammable gas or liquid, or electromagnetic signal interference. When installed outdoors, the pump should be sheltered.
- ◎ The assembling floor of the variable-frequency pump must be firm, without any split or sink.
- ◎ The equipment should be installed with positive pressure at the inlet while installation with negative-pressure suction should be avoided to the greatest extent. In case negative-pressure installation is required, please select a bottom valve with good quality and carry out regular overhauls.
- ◎ The diameter of the inlet pipe and the outlet pipe to be connected with the variable-frequency pump should be greater than the diameter of the variable-frequency pump itself.
- ◎ Please check whether the provided power supply complies with the requirement of the variable-frequency pump for the power supply at the incoming line.
- ◎ During installation, the user should furnish the inlet and the outlet valves of the variable-frequency pump and the relevant flexible connections so as to facilitate repairs and prevent noise from passing through piping.
- ◎ If installation is made with positive pressure at the inlet, please open the vent valve of the water pump and discharge the air prior to use. Do not tighten the vent valve until there is water flowing out. In case of installation made with negative pressure at the inlet, please fill the suction pipe with water prior to use (there should be a filling valve at the suction pipe) and start up the pump after the chamber of the water pump is full of water.

Reference for Model Selection

Computational method of maximum water consumption

No	Accessories for water supply	Rated flow (L/s)	Equivalent	Nominal diameter of connecting pipe (mm)	Minimum operating pressure (MPa)
1	Washtub, mop basin, washbasin Single-valve faucet Single-valve faucet Mixed-water faucet	0.15 ~ 0.20 0.30 ~ 0.40 0.15 ~ 0.20(0.14)	0.75 ~ 1.00 1.5 ~ 2.00 0.75 ~ 1.00(0.70)	15 20 15	0.050
2	Washbasin Single-valve faucet Mixed-water faucet	0.15 0.15 (0.10)	0.75 0.75(0.50)	15 15	0.050
3	Washbasin Sensor faucet Mixed-water faucet	0.10 0.15(0.10)	0.50 0.75(0.5)	15 15	0.050
4	Bathtub Single-valve faucet Mixed-water faucet (including converter with shower)	0.20 0.24(0.20)	1.00 1.2(1.0)	15 15	0.050 0.050 ~ 0.070
5	Shower Mixing valve	0.15(0.10)	0.75(0.50)	15	0.050 ~ 0.100
6	Closet pan Float valve of flushing cistern Delay-driven self-closing flush valve	0.10 1.20	0.50 6.00	15 25	0.020 0.10 ~ 0.15
7	Urinal Manual or automatic self-closing flush valve Inlet valve of automatic flushing cistern	0.10 0.10	0.50 0.50	15 15	0.050 0.020
8	Perforated flushing pipe of urinal (in m)	0.05	0.25	15 ~ 20	0.015
9	Faucet of bidet	0.10(0.07)	0.50(0.35)	15	0.050
10	Pan closet used in a hospital	0.10(0.07)	1.00	15	0.050
11	Gooseneck-type faucet for testing in a laboratory Single-linkage Double-linkage Triple-linkage	0.07 0.15 0.20	0.35 0.75 1.00	15 15 15	0.020 0.020 0.020
12	Nozzle of drinking fountain	0.05	0.25	15	0.050
13	Sprinkler	0.40 0.70	2.00 3.50	20 25	0.050 ~ 0.100 0.050 ~ 0.100
14	Flushing faucet for indoor ground	0.20	1.00	15 15	0.050
15	Faucet of domestic washing machine	0.20	1.00	15 15	0.050

Note:

- ◎ A value inside brackets in the table is to be used for the independent calculation relating to cold water or hot water, when there is hot water supply.
- ◎ When a shower is attached to a bathtub or a mixed-water faucet is provided with a shower converter, then for the calculation of the rated flow and the equivalent, only the faucet should be included. However, the computation of water pressure shall be based on the shower.
- ◎ The water pressure needed by a domestic gas water heater should be determined on the basis of the requirement of the product and the operating pressure needed by the most unfavorable water distribution point of the hot water supply system.
- ◎ The automatic sprinkling irrigation of a green belt should be designed in accordance with the requirement of the product.
- ◎ When there are special requirements for the rated flow and the minimum operating pressure needed by the water supply accessories of sanitary fixtures, their values should be determined as per the requirement of the product (how to determine the equivalence when the requirement of the product is determined).
- ◎ Calculation of maximum water consumption
L=Number of single-valve faucets * Rated flow + Mixed-water faucet * Rated flow +.....+ Number of domestic washing machines * Rated flow
The unit of L to be calculated should be “L/S” , converted into t/h by multiplying 3.6 (for the rated flow, please refer to Table I).

Calculation of minimum pressure

The minimum pressure should be the pressure calculated from the suction surface of the water pump, plus the minimum necessary pressure for the highest sanitary fixture used.

The minimum pressure used by the water supply equipment (Mpa) $\approx 1/100 \times (hg + hf) + pe$

Ha: the actual lift from the suction surface to the highest fixture (m);

Hf: the loss of the piping and the bending, to be calculated as 6m-10m;

Pe: the minimum necessary pressure of the highest sanitary fixture (please refer to Table I).

For example:

There is a small hotel four-storeyed above the ground, about 12m high (calculated from the suction surface), including 12 rooms. Each room is equipped with one closet plan, one washbasin (with a mixed-water faucet), and one shower (with a mixed-water faucet). In addition, the hotel has one faucet for domestic washing machines, four flushing faucets for indoor ground, and four faucets of drinking fountains. Please calculate the flow and the lift of the equipment to be selected.

Answer:

Calculation of the maximum water consumption:

Maximum water consumption=3.6{12 (1*0.1+1*0.15+1*0.24) +1*0.2+4*0.2+4*0.05}=6.084t/h

Calculation of the minimum pressure:

Minimum pressure $\approx 1/100 \times (12+10) + 0.07=0.29$ Mpa

Ha: the actual lift from the suction surface to the highest sanitary fixture, 12m;

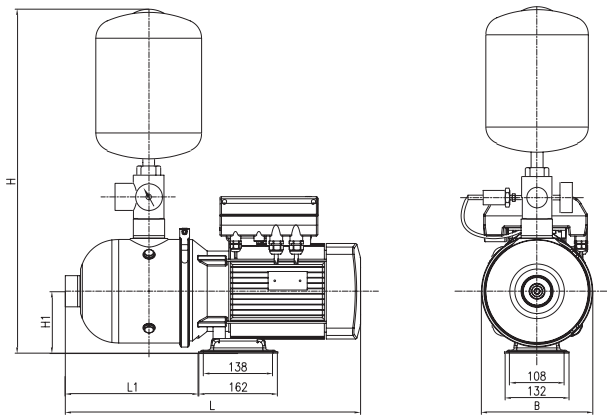
Hf: the head loss of the piping and the bending, taking 10m;

Pe: the minimum operating pressure of the shower, 0.7bar.

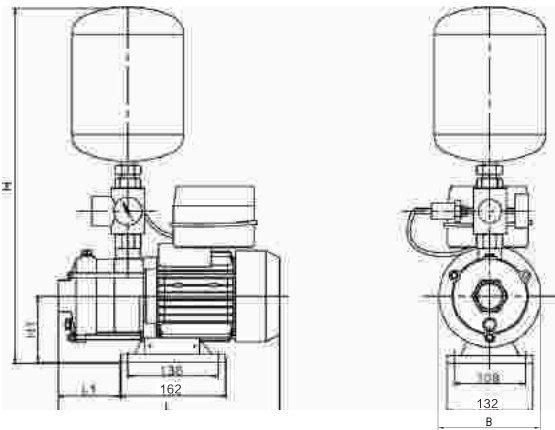
Note: 1bar $\approx 1\text{kg/cm}^2 = 0.1\text{Mpa}$; 1Mpa is approximately equal to 100m lift of the water pump.

When equipment is selected, the total flow of the selected equipment should be the maximum water consumption and the lift should be no less than the minimum pressure calculated. Please refer to the Equipment Spectrum.

Overall Dimensions of Variable-frequency Pump

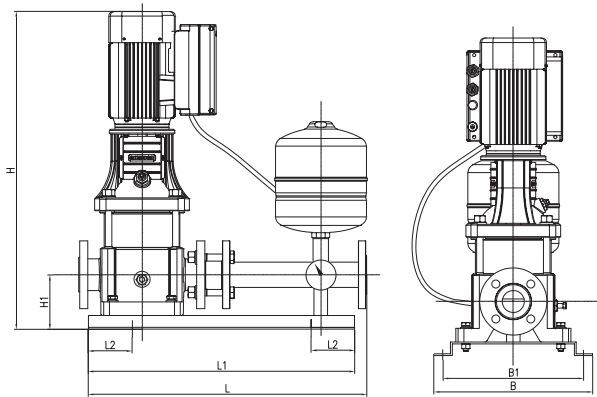


Model	L (mm)	L1 (mm)	B (mm)	H1 (mm)	H (mm)	N.W (kg)	G.W (kg)
BWE2-6	424	159	166	111	530	19	21.5
BWE4-4	424	159	166	111	530	19	21.5
BWE8-2	536	270	228	118	626	19	22.3
BWE8-3	536	270	228	118	626	25	28.3
BWE8-4	574	270	228	118	626	29	32.3
BWE8-5	574	270	228	118	626	33	36.3
BWE12-2	536	270	228	118	626	25	28.3
BWE12-3	574	270	228	118	626	29	32.3
BWE16-2	574	270	228	118	626	32	35.3
BWE20-1	536	270	228	118	626	25	28.3
BWE20-2	574	270	228	118	626	33	36.3

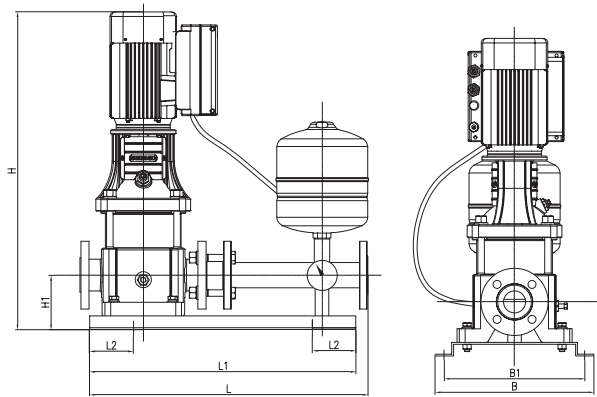


Model	L (mm)	L1 (mm)	B (mm)	H1 (mm)	H (mm)	N.W (kg)	G.W (kg)
BWJE2-6	440	158	158	110	498	20	22.8
BWJE4-4	441	159	158	110	498	19	21.5
BWJE4-5	469	187	158	111	498	22	25
BWJE4-6	496	214	158	111	498	23	25.5
BWJE8-2	405	120	158	118	568	23	26.7
BWJE8-3	437	152	158	118	568	25	28.8
BWJE8-4	492	183	168	118	568	30	33.3
BWJE8-5	524	215	168	118	568	32	35.9
BWJE12-2	405	120	158	118	568	26	29.3
BWJE12-3	460	151	168	118	568	31	34.3
BWJE16-2	441	132	168	118	568	34	37.9
BWJE20-1	391	106	158	118	583	26	29.3
BWJE20-2	459	150	168	118	583	31	34.3

Overall Dimensions of Variable-frequency Pump



Model	L (mm)	L1 (mm)	L2 (mm)	B (mm)	B1 (mm)	H (mm)	H1 (mm)	N.W.(kg)		G.W.(kg)	
								BLE	BLTE	BLE	BLTE
BL(T)E2-6	600	550	100	320	280	625	80	37	43	52	58
BL(T)E2-7	600	550	100	320	280	643	80	37	43	52	58
BL(T)E2-9	600	550	100	320	280	679	80	40	46	57	63
BL(T)E2-11	600	550	100	320	280	715	80	41	47	58	64
BL(T)E2-13	600	550	100	320	280	809	80	44	51	63	70
BL(T)E2-15	600	550	100	320	280	845	80	45	51	64	70
BL(T)E4-4	600	550	100	320	280	625	80	37	44	52	59
BL(T)E4-5	600	550	100	320	280	652	80	39	46	54	61
BL(T)E4-6	600	550	100	320	280	679	80	40	47	57	64
BL(T)E4-7	600	550	100	320	280	764	80	43	51	61	69
BL(T)E4-8	600	550	100	320	280	791	80	44	51	62	69
BL(T)E4-10	600	550	100	320	280	845	80	48	55	66	73
BL(T)E4-12	600	550	100	320	280	899	80	49	57	69	77



Model	L (mm)	L1 (mm)	L2 (mm)	B (mm)	B1 (mm)	H (mm)	H1 (mm)	N.W.(kg)		G.W.(kg)	
								BLE	BLTE	BLE	BLTE
BL(T)E8-2	750	700	100	360	320	650	120	53	63	72	82
BL(T)E8-3	750	700	100	360	320	680	120	55	65	74	84
BL(T)E8-4	750	700	100	360	320	760	120	59	69	80	90
BL(T)E8-5	750	700	100	360	320	790	120	63	73	84	94
BL(T)E8-6	750	700	100	360	320	820	120	64	74	85	95
BL(T)E12-2	750	700	100	360	320	713	120	59	69	80	90
BL(T)E12-3	750	700	100	360	320	745	120	62	72	83	93
BL(T)E16-2	750	700	100	360	320	740	120	62	73	83	94
BL(T)E20-2	750	700	100	360	320	740	120	64	74	85	95

Packing Sizes & Weight

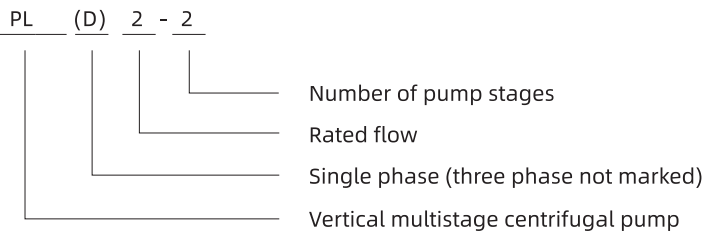
Model	Dim.(mm)(LxWxH)
BWE2-6	520×260×590
BWE4-4	
BWE8-2	660×290×700
BWE8-3	
BWE8-4	
BWE8-5	
BWE16-2	
BWJE2-6	520×260×590
BWJE4-4	
BWJE4-5	580×260×570
BWJE4-6	
BWJE8-2	660×290×700
BWJE8-3	
BWJE8-4	
BWJE8-5	
BWJE16-2	
BL(T)E2-6	800×330×670
BL(T)E2-7	
BL(T)E2-9	800×330×740
BL(T)E2-11	
BL(T)E2-13	800×330×870
BL(T)E2-15	
BL(T)E4-4	800×330×670
BL(T)E4-5	
BL(T)E4-6	800×330×740
BL(T)E4-7	
BL(T)E4-8	800×330×870
BL(T)E4-10	
BL(T)E4-12	800×330×920
BL(T)E8-2	
BL(T)E8-3	900×360×720
BL(T)E8-4	
BL(T)E8-5	900×360×870
BL(T)E8-6	
BL(T)E12-2	
BL(T)E12-3	
BL(T)E16-2	
BL(T)E20-2	

PLD economical vertical multistage pump



PL(D)

Model Instruction



Performance range

- ◎ Max lift: 153 m;
- ◎ Max flow: 6m³ / h;

Conditions

- ◎ The temperature of the medium does not exceed +60 ° C;
- ◎ The ambient temperature does not exceed +40 ° C;
- ◎ The PH value of the medium is between 6.5 and 8.5, the volume ratio of solid impurities in the medium is ≤ 0.1%, and the particle size is ≤ 0.2mm.
- ◎ The maximum working pressure is 15 bar;
- ◎ The highest altitude is 1000m;

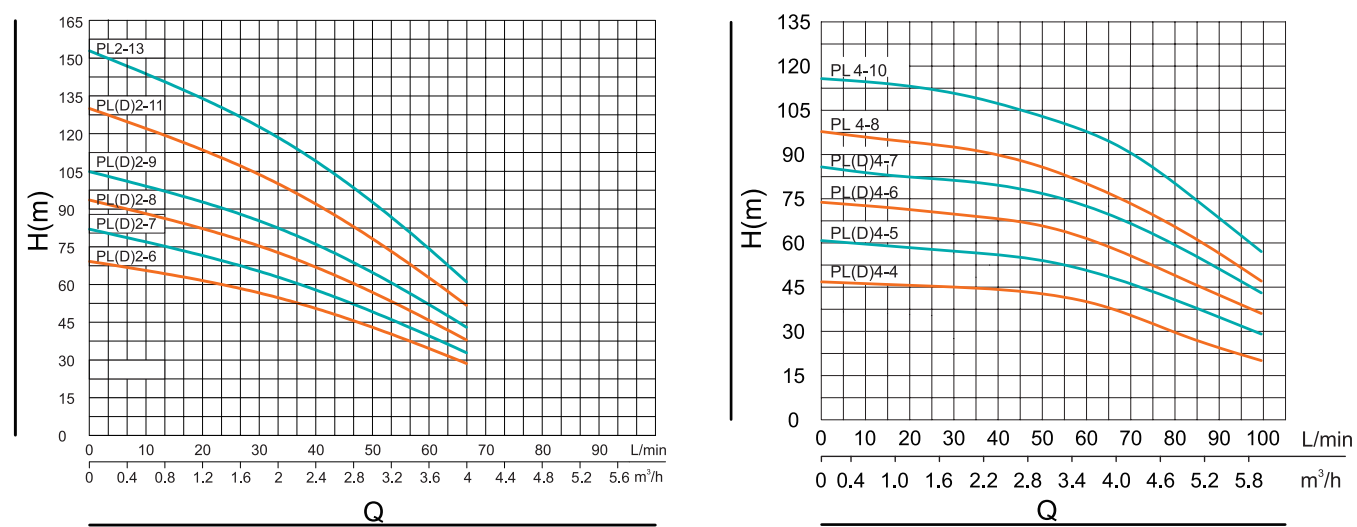
Applications

The product has the characteristics of high cost-effective, high pressure and low noise,etc.PL(D) are widely used in many fields,such as water supply system and water filtration and boost systemn for pipeling,washing and cleaning ,boiler feed water,cooling water circulation,water treatment,ultra-filtration,reveser osmosis systems,water fertilizer integrated machine ,etc.

Functions

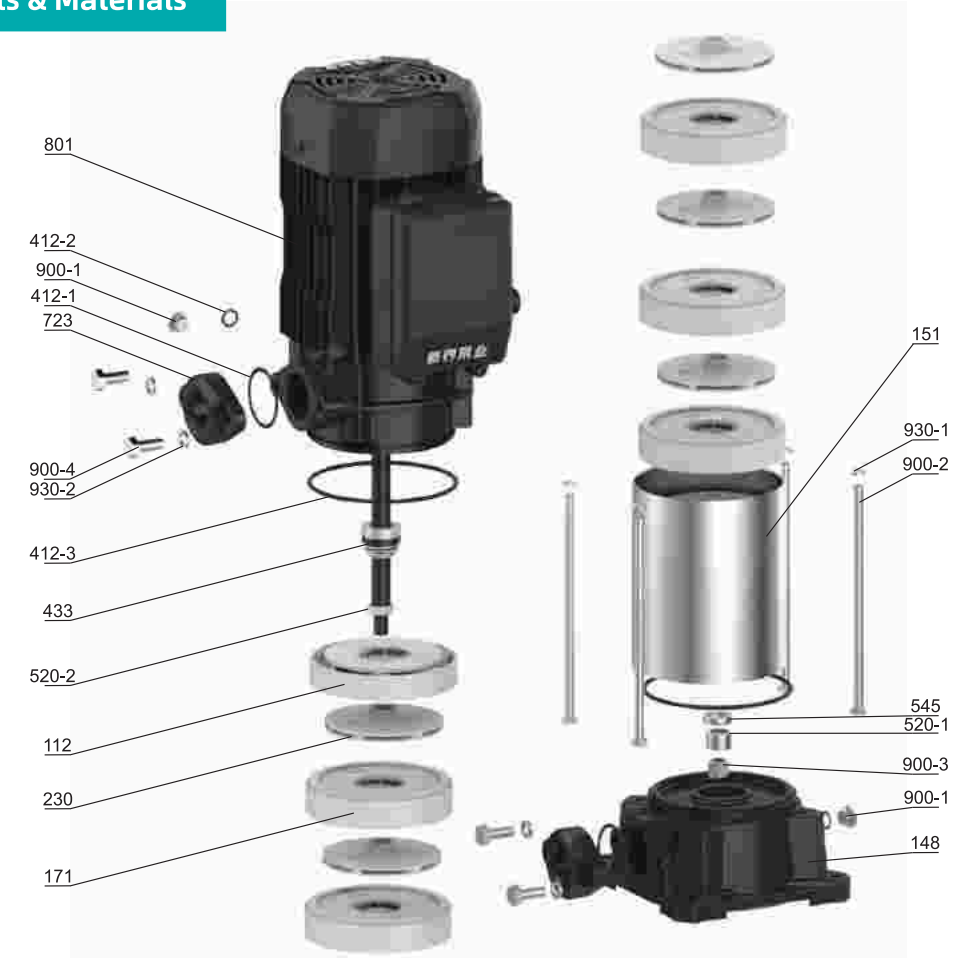
- ◎ pump seat / coupling / back cover / inlet pipe: cast iron;
- ◎ Axis: 304+45 friction welding
- ◎ Impeller / guide vane: PPO + GF30
- ◎ Case: YL102
- ◎ Pump barrel: 304
- ◎ Junction box: ABS
- ◎ Mechanical seal: silicon carbide / graphite / nitrile rubber
- ◎ Bearing: 6305-2RS / human, 6204-2RS / human, contact sealed
- ◎ Motor: 2-pole asynchronous motor, copper coil, fan cooling, continuous operation
- ◎ Protection class: IP55
- ◎ Insulation class: F

Performance curve



Model		Power		Q (m³/h)	0	1	2	3	4	5	6
Single-phase	Three phase	kW	HP		0	16.7	33.3	50	66.7	83.3	100
PLD2-6	PL2-6	1.1	1.5	H(m)	69	65	53	45	18	-	-
PLD2-7	PL2-7	1.1	1.5		82	75	65.5	52	25	-	-
PLD2-8	PL2-8	1.5	2		94	87	73	59	28	-	-
PLD2-9	PL2-9	1.5	2		105	98	84	67	35	-	-
PLD2-11	PL2-11	1.8	2.4		130	119	102	82	37	-	-
-	PL2-13	2.2	3		153	142	122	97	39	-	-
PLD4-4	PL4-4	1.1	1.5		47	46	45	41	39	28	20
PLD4-5	PL4-5	1.5	2		61	58	57	55	48	39	29
PLD4-6	PL4-6	1.5	2		74	72	69	66	58	47	36
PLD4-7	PL4-7	1.8	2.4		86	83	81	77	69	57	43
-	PL4-8	2.2	3		98	95	92	86	77	63	47
-	PL4-10	2.2	3		116	114	110	102	96	73	57

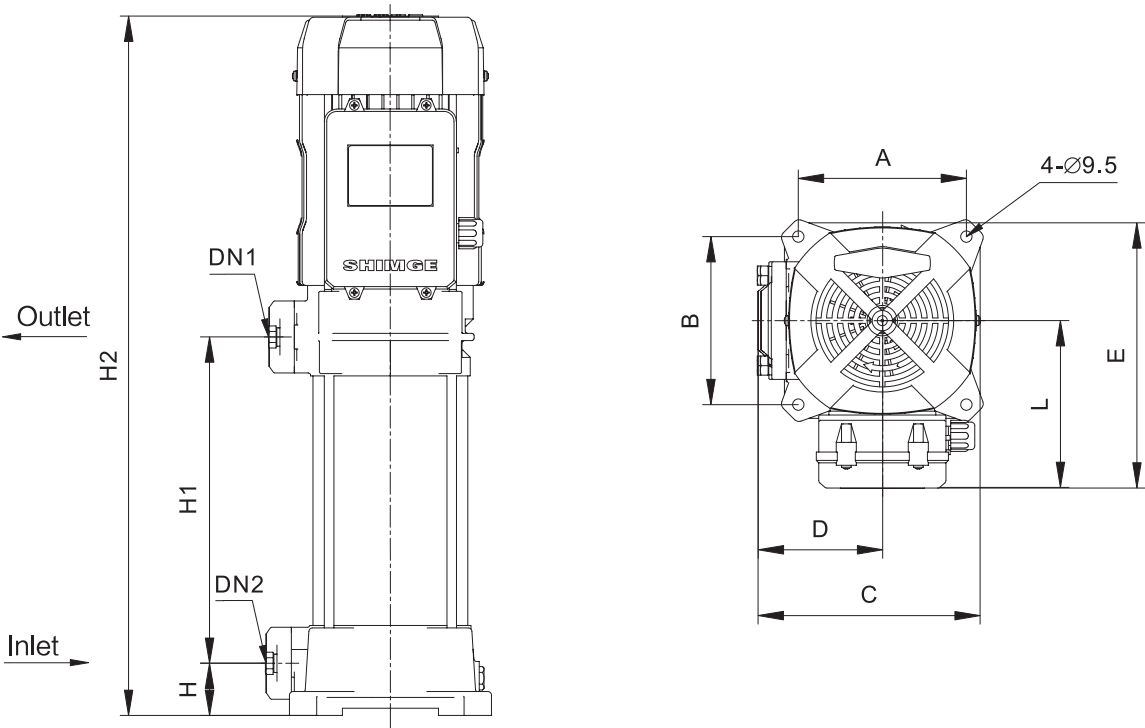
Components & Materials



No.	Component	No.	Component
112	Last-stage guide vane	520-2	Shaft sleeve
148	Pump seat	545	Plastic bearing
151	Pump cylinder	723	Inlet and outlet pipes
171	Guide vane	801	Motor
230	Impeller	900-1	Air release plug
412-1	O-ring	900-2	Hexagon head bolt
412-2	O-ring	900-3	Type 1 non-metallic insert hex lock nut
412-3	O-ring	900-4	Hexagon head bolt with full thread
433	Mechanical seal	930-1	Standard spring washer
520-1	Wear-resistant shaft sleeve	930-2	Spring washer

Product appearance size

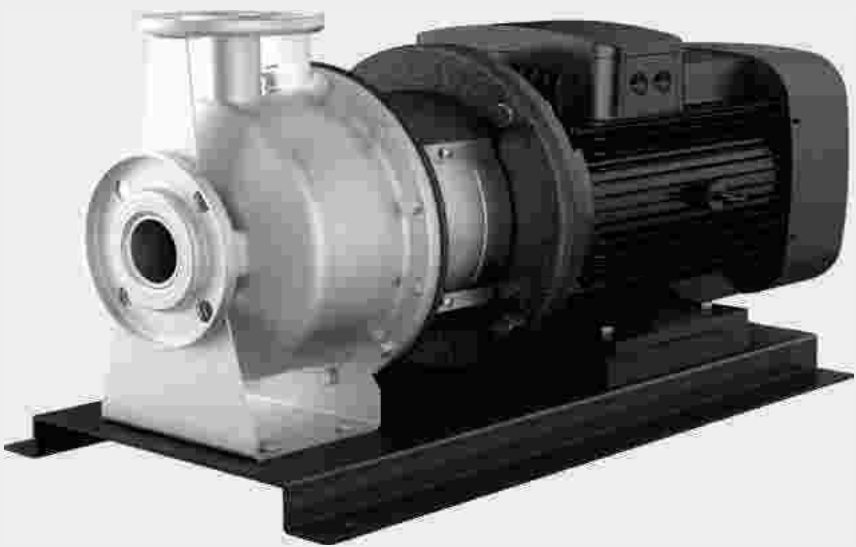
Model		DN1	DN2	H	H1	H2	A	B	C	D	E	L
Single-phase	Three phase	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
PLD2-6	PL2-6	G1	G1	43.5	224.5	536.5	140	140	185	103.5	221	139.5
PLD2-7	PL2-7				248.5	560.5						
PLD2-8	PL2-8				272.5	584.5						
PLD2-9	PL2-9				296.5	608.5						
PLD2-11	PL2-11				344.5	656.5						
-	PL2-13				392.5	704.5						
PLD4-4	PL4-4				176.5	487						
PLD4-5	PL4-5				200.5	511						
PLD4-6	PL4-6				224.5	535						
PLD4-7	PL4-7				248.5	559						
-	PL4-8				272.5	583						
-	PL4-10				320.5	631						



Packing Sizes & Weight

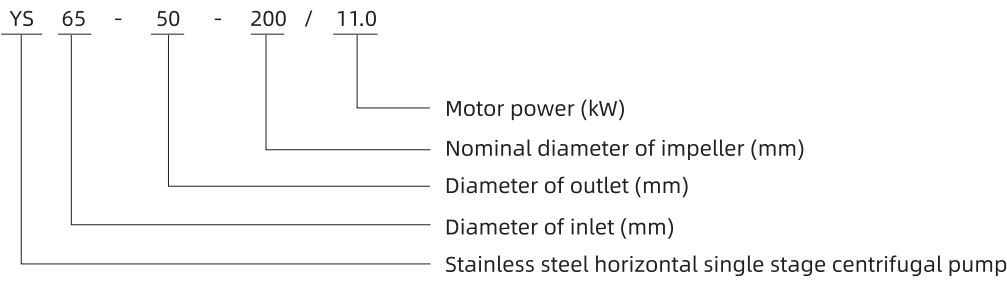
Model	Dim.(mm)(L*W*H)	N.W.(kg)	G.W.(kg)
PL2-6	595×240×270	21	22
PLD2-6		22	23
PL2-7	620×240×270	22	23
PLD2-7		23	24
PL2-8	645×240×270	24	25
PLD2-8		25	26
PL2-9	670×240×270	24	25
PLD2-9		26	27
PL2-11	715×240×270	26	27
PLD2-11		28	29
PL2-13	765×240×270	28	29
PL4-4	545×240×270	20	21
PLD4-4		21	22
PL4-5	570×240×270	22	23
PLD4-5		24	25
PL4-6	595×240×270	23	24
PLD4-6		24	25
PL4-7	620×240×270	24	25
PLD4-7		26	27
PL4-8	645×240×270	26	27
PL4-10	695×240×270	31	32

YS Series Stainless Steel Single Stage Centrifugal Pump



YS

Model Instruction



Product Overview

Made by adopting such advanced technologies as stamping, bulging and welding of stainlesssteel plates, YS stainless steel horizontal single stage centrifugal pump is a new generation of domestically initiative centrifugal pump, which can replace traditional IS pumps and general corrosion-resistance pumps. It has such features as good-looking appearance, lightweight structure, high efficiency and energy saving, robustness, resistance to light corrosion, and low noise.

Operating Conditions

■ The use of YS pump is restricted by the following conditions:

1. Clean, thin, and non-flammable & non-explosive liquid that does not contain solid particles and fibers
2. Liquid at the temperature between -20° C and +100° C
3. Maximum ambient temperature: +40° C
4. Maximum altitude: 1000m
5. Maximum system pressure :1.0MPa

Structural Features



Motor

High efficiency and energy saving
Angular contact bearing is adopted at the drive end, so that the motor operates more safely with lower noise.



Pump body

Stainless steel stamping and welding
Good discharge capacity
Reliable hydraulic self-balancing



Pump cover

Professional style design
Heightened design, equipped with protective cover
Surface electrophoresis treatment
Good ventilation and heat dissipation



Pump cover

Sleeve coupling type
100,000 times of reliability testing
Stainless steel material
Dynamic balancing



Impeller

German casting technology
Efficient hydraulic design
Stainless steel material

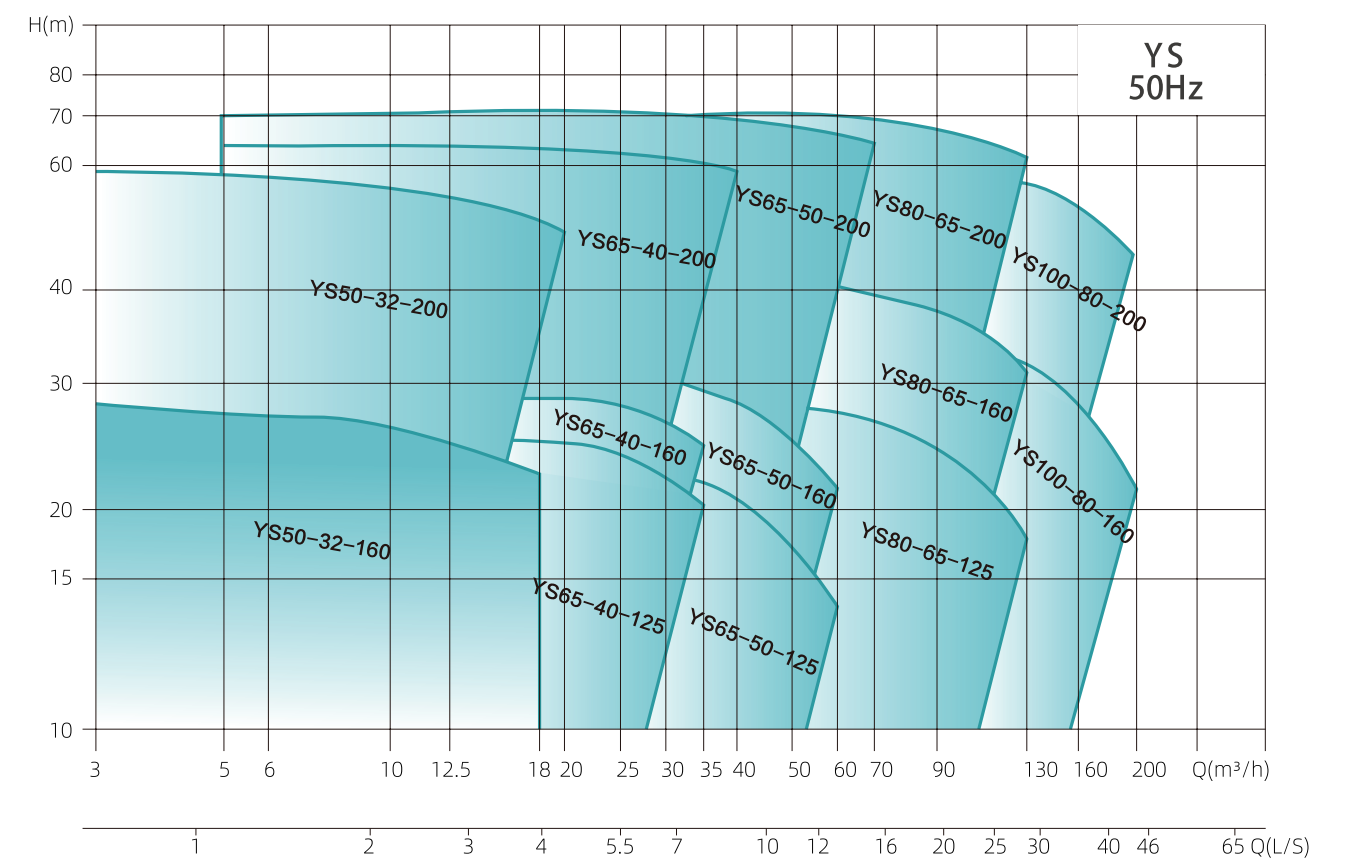
The international popular modular design is adopted to reduce the unnecessary parts and components, guarantee the universality of parts, and facilitate purchasing, manufacturing and maintenance.

Applications

YS stainless steel horizontal single stage centrifugal pump is a multi-functional product with a wide range of applications, which can convey various media including water or industrial liquids, applicable to different ranges of temperature, flow and pressure. Its typical applications mainly include the following:

- **Water supply:** Filtering, transmission, sectionalized water supply, and manifold pressurization;
- **Industrial pressurization:** Process water system and cleaning system;
- **Industrial liquid conveying:** Boiler water supply, condensing system, cooling and air conditioning system, machine matching, and weak acid and alkali conveying;
- **Water treatment:** Distillation system or separator, and swimming pool, etc.;
- **Farm irrigation, and medicine and health, etc.**

Spectrum Diagram

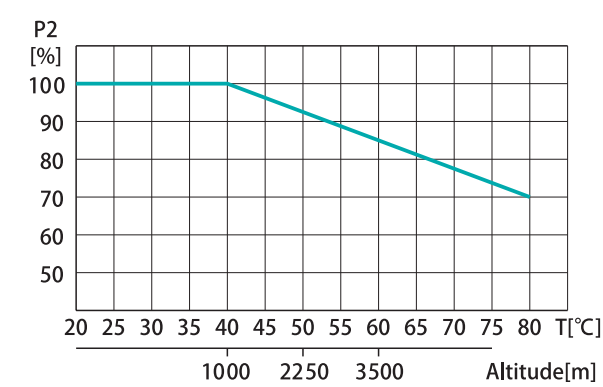


Performance Parameters

No.	Model	Flow rate (m³/h)	Lift (m)	Rotating speed (r/min)	Standard motor voltage [V]	
					1×220V P ₂ [kW]	3×380V P ₂ [kW]
1	YS50-32-160/1.5	12.5	20	2900	/	1.5
2	YS50-32-160/2.2	12.5	25		/	2.2
3	YS50-32-200/3	12.5	32		/	3
4	YS50-32-200/4	12.5	42		/	4
5	YS50-32-200/5.5	12.5	54		/	5.5
6	YS65-40-125/1.5	25	13		/	1.5
7	YS65-40-125/2.2	25	18		/	2.2
8	YS65-40-125/3	25	24		/	3
9	YS65-40-160/4	25	28		/	4
10	YS65-40-200/5.5	25	36		/	5.5
11	YS65-40-200/7.5	25	46	2950	/	7.5
12	YS65-40-200/11	25	62		/	11
13	YS65-50-125/3	50	13	2900	/	3
14	YS65-50-125/4	50	18		/	4
15	YS65-50-160/5.5	50	25		/	5.5
16	YS65-50-200/7.5	50	32		/	7.5
17	YS65-50-200/9.2	50	40	2950	/	9.2
18	YS65-50-200/11	50	48		/	11
19	YS65-50-200/15	50	58		/	15
20	YS65-50-200/18.5	50	68		/	18.5
21	YS80-65-125/5.5	100	13	2900	/	5.5
22	YS80-65-125/7.5	100	18		/	7.5
23	YS80-65-125/9.2	100	23		/	9.2
24	YS80-65-160/11	100	27		/	11
25	YS80-65-160/15	100	36	2950	/	15
26	YS80-65-200/18.5	100	45		/	18.5
27	YS80-65-200/22	100	53		/	22
28	YS100-80-160/11	160	15		/	11
29	YS100-80-160/15	160	22		/	15
30	YS100-80-160/18.5	160	28		/	18.5
31	YS100-80-200/22	160	33		/	22

Motor

- **Structure:** All-series totally enclosed air-cooled three-phase asynchronous standard motor, in which single-phase motor is optional for the power range of 1.1kW ~ 2.2kW.
- **Motor protection:** Single-phase motor is equipped with the built-in thermal protector, and three-phase motor shall be connected to the motor starter according to local regulations.
- **Ambient temperature:** ≤ 40° C; in an environment above this temperature, or when the motor is installed at an altitude above 1000m, due to the lower air density, the cooling effect of motor weakens, the loss of windings and iron core increases, and the operating efficiency reduces, resulting in the drop in the output power (P2) of motor; in this case, a motor with higher output power must be selected, as shown in Figure 1.



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

IE2 Three-phase Motor

Rated power (kW)	Rated current(A)		Rated speed (r/min)	Power factor (cosφ)	Efficiency (%)	Connection method	Standard motor voltage [V]
	380(V)	415(V)					
1.5	3.34	3.06	3000	0.84	81.3	Y	6205ZZ
2.2	4.73	4.33		0.85	83.2	Y	6205ZZ
3	6.19	5.67		0.87	84.6	Y	6206ZZ
4	8.05	7.37		0.88	85.8	△	6206ZZ
5.5	10.9	9.99		0.88	87.0	△	6308ZZ
7.5	14.5	13.3		0.89	88.1	△	6308ZZ
11	21.0	19.2		0.89	89.4	△	6309ZZ
15	28.4	26.0		0.89	90.3	△	6309ZZ
18.5	34.7	31.8		0.89	90.9	△	6309ZZ
22	41.1	37.7		0.89	91.3	△	6311ZZ
30	55.7	51.0		0.89	92.0	△	6312ZZ

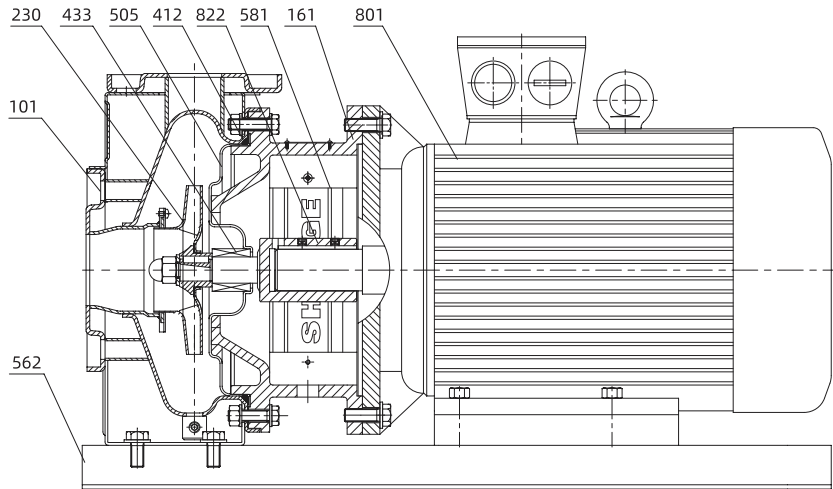
IE3 Three-phase Motor

Rated power (kW)	Rated current(A)		Rated speed (r/min)	Power factor (cosφ)	Efficiency (%)	Connection method	Standard motor voltage [V]
	380(V)	415(V)					
1.5	3.22	2.95	3000	0.84	84.2	Y	6205ZZ
2.2	4.58	4.19		0.85	85.9	Y	6205ZZ
3	6.02	5.51		0.87	87.1	Y	6206ZZ
4	7.84	7.18		0.88	88.1	△	6206ZZ
5.5	10.65	9.75		0.88	89.2	△	6308ZZ
7.5	14.37	13.16		0.88	90.1	△	6308ZZ
11	20.59	18.85		0.89	91.2	△	6309ZZ
15	27.86	25.51		0.89	91.9	△	6309ZZ
18.5	34.18	31.3		0.89	92.4	△	6309ZZ
22	40.51	37.1		0.89	92.7	△	6311ZZ
30	54.89	50.26		0.89	93.3	△	6312ZZ

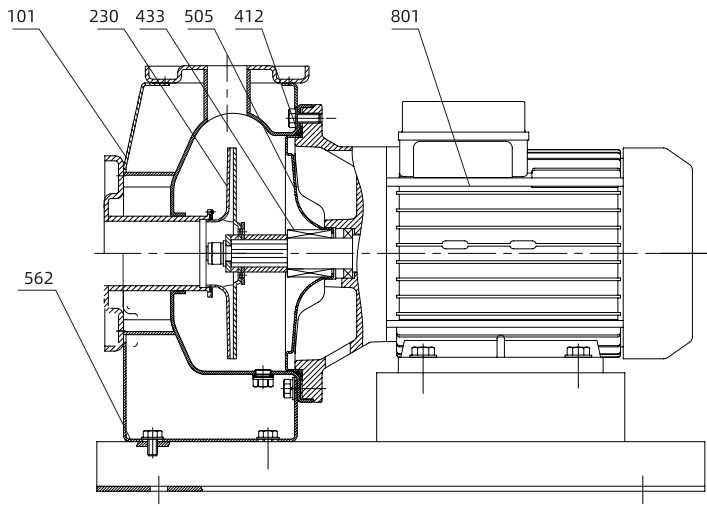
The product has two structures: integral structure for 1.5kW~4kW, and separated structure for 5.5kW and above; the separated structure is mainly composed of the five core components: pump body, impeller, pump cover, pump shaft, and motor, the motor is separable from the pump, the pump part is designed as the top pull-out structure, and all models are equipped with the standard motor and mechanical seal. The pump body is equivalent to a section of pipeline, and during the maintenance of pumps, the pump body can be sealed with the blank flange so as not to affect the normal operation of the system. The impeller is of an enclosed structure, and adopts the design of the twisted blade, which better ensures high hydraulic efficiency. The pump cover has the dual function of supporting the motor and sealing the pump body, and the seal between it and the pump body adopts the static seal “O-ring” . The dimensions of inlet & outlet flanges of the pump meet the stipulations of such standards as GB/T 17241.6, ISO 7005-2 and DIN 2501

■ Sectional views of the product

■ Separated structure



No.	Component	Material
101	Casing	304
161	Casing cover	HT200
230	Impeller	304
412	O-ring	NBR
433	Shaft seal	FPM
505	Baffle	304
562	Base	Q235A
581	Protection sheet	304
801	Motor	/
822	Pump shaft	304+45#



■ Integral structure

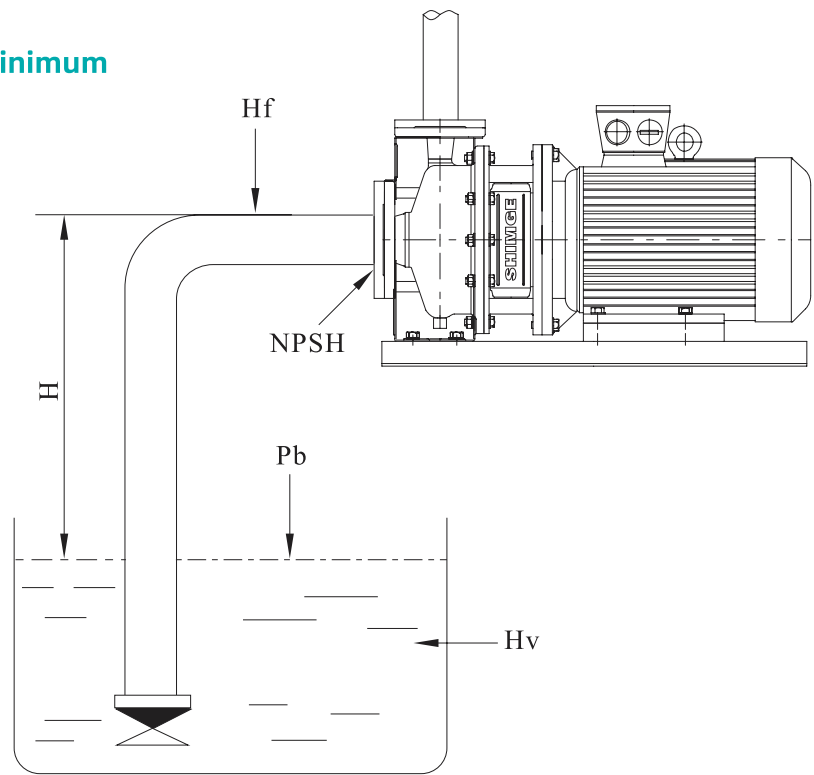
No.	Component	Material
101	Casing	304
230	Impeller	304
412	O-ring	NBR
433	Shaft seal	FPM
505	Baffle	304
562	Base	Q235A
801	Motor	/

Installation Conditions

YS stainless steel horizontal single stage centrifugal pump adopts direct pump-shaft coupling, and it is composed of the pump, pump shaft and standard motor:

- The pump shall be installed at a ventilated and anti-icing place;
- The pump shall be so properly installed as to ensure that it is not affected by the tension of the system pipeline in use;
 - If the pump is installed outdoors, an appropriate outer cover must be provided to prevent water from entering or condensing in electrical components;
 - In order to facilitate inspection and maintenance, enough space must be left around the unit;
- The electrical wiring device shall ensure that the pump is not damaged by phase loss, instable voltage, electrical leakage and overload;
- The pump shall be horizontally mounted on the base, the horizontal direction is the inlet of pump, and the vertical direction is the outlet of pump.

■ Calculation of minimum inlet pressure



Inlet pressure: In order to ensure that the water pump is in the best operating state, and control the noise at the minimum level, the inlet pressure must be correctly calculated and set. If the pressure in the pump is lower than the vaporization pressure of the conveyed medium, cavitation will occur to the water pump, and in order to ensure a minimum pressure at the inlet of pump, the maximum suction height (m) can be calculated by the following formula:

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

Pb: Atmospheric pressure, unit: ba;

NPSH: Net positive suction height, unit: m (The specific value can be read from the numerical value corresponding to the maximum flow point of pump operation on the NPSH curve in the performance curves of corresponding models);

Hf: The inlet line loss at the maximum flow of pump operation, unit: m;

Hv: Vaporization pressure of liquid, unit: m (See the figure right for specific value);

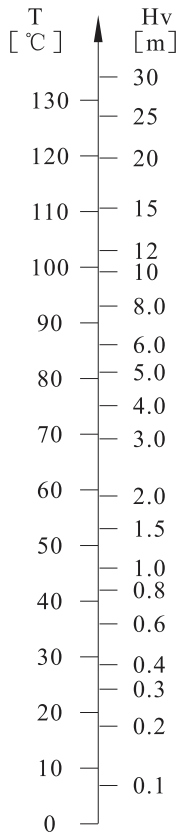
Hs: Safety margin, unit: m, usually it takes 0.5m.

When calculated by the formula above, if the “H” value is positive, it indicates that the pump can operate at this suction height.

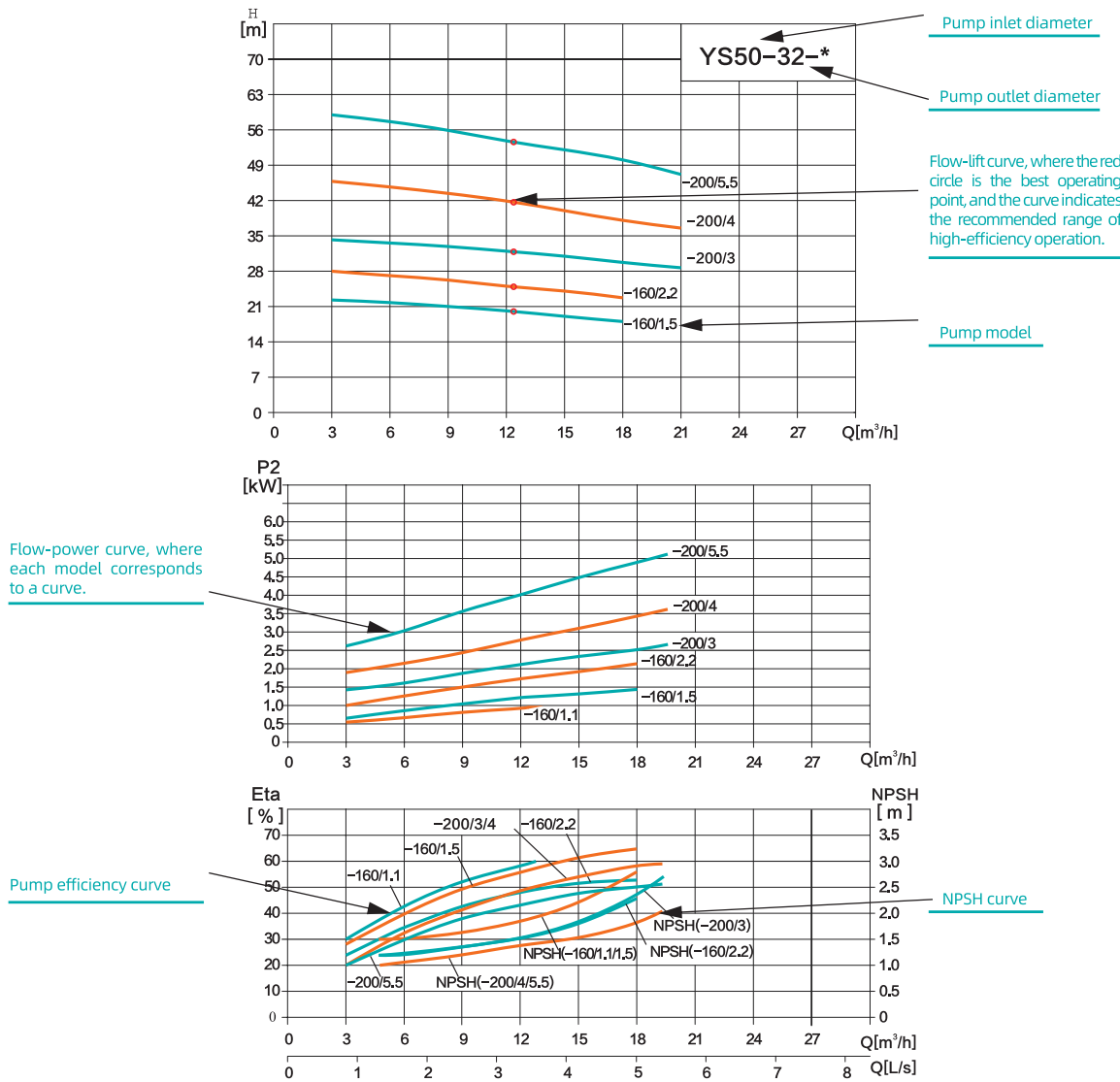
If the “H” value is negative, the pump can operate normally when the minimum inlet pressure reaches the pressure head of “H” m.

Notes: Usually the calculation above is not necessary, but the calculation is required under the following circumstances:

1. The liquid temperature is high;
2. The inlet conditions are poor;
3. The inlet pipeline is long, or the pump needs to be installed and used for suction;
4. The system pressure is too low;
5. The flow velocity of liquid is too high, causing a larger line loss.



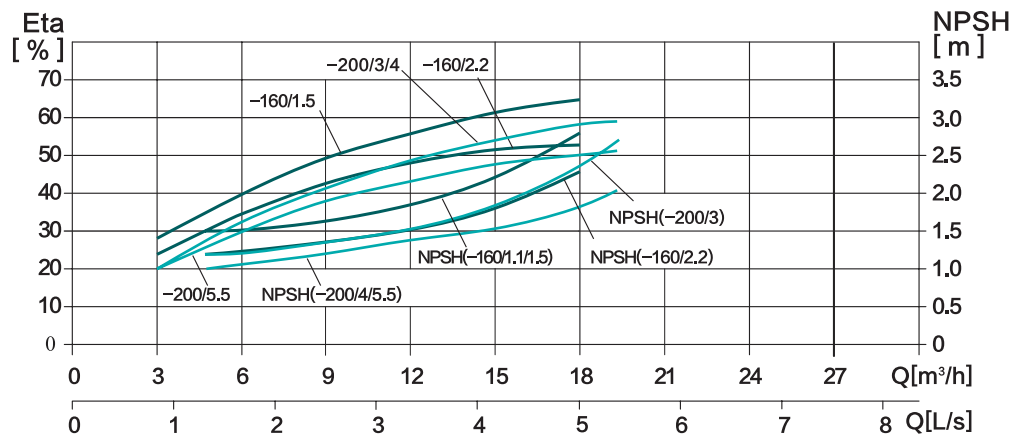
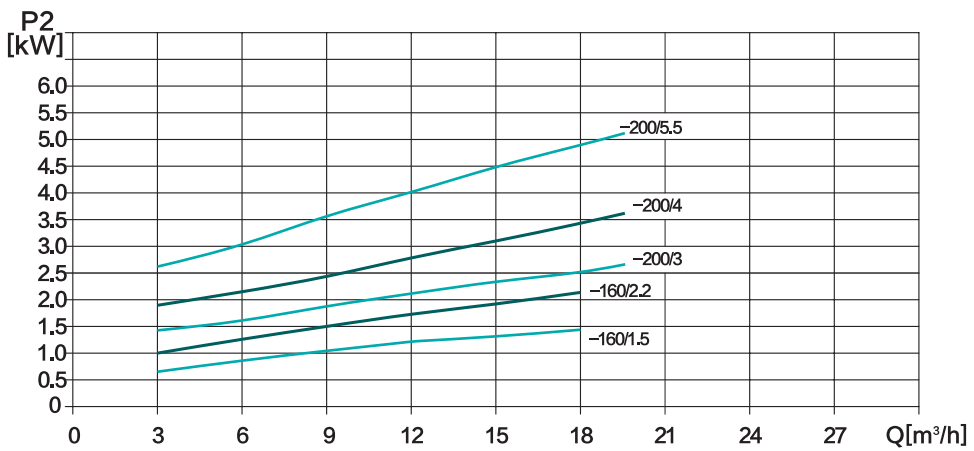
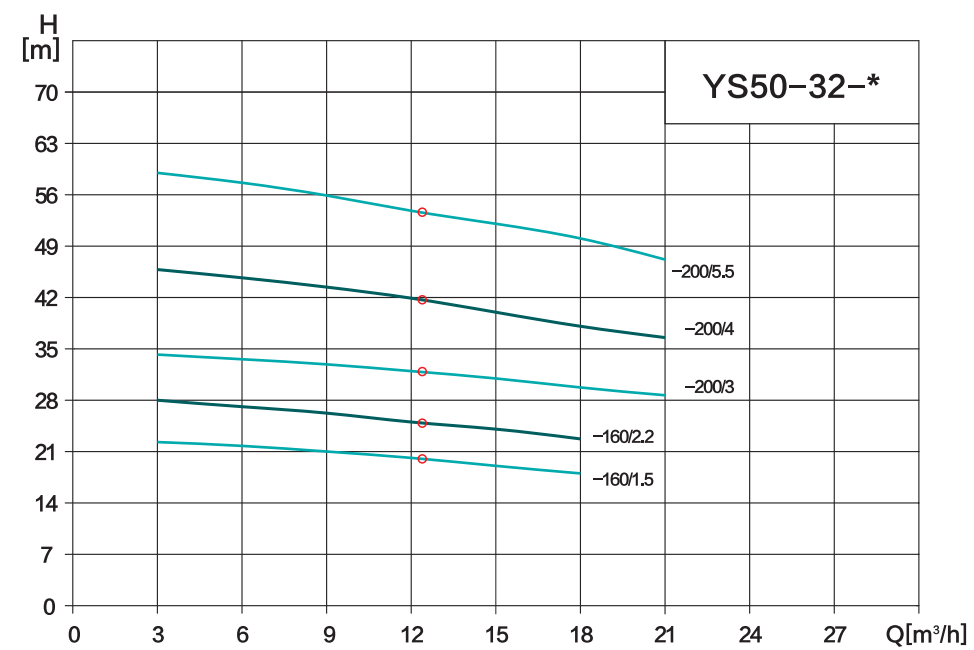
Examples of Performance Curves



■ Applicable Principles of Performance Curves

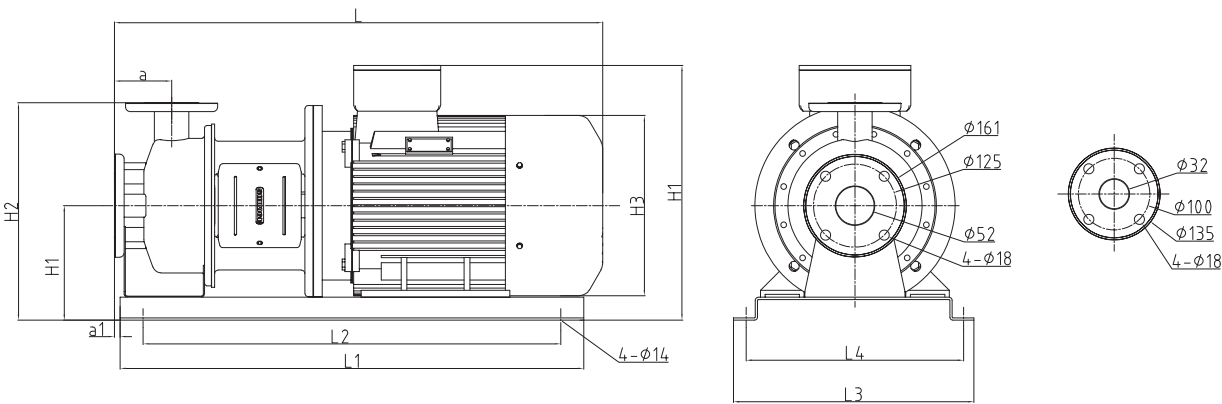
1. The curve tolerance complies with ISO9906, Annex A;
2. The test medium is 20° C clean water that does not contain any solid impurity and air;
3. All curves are based on 3×380V electric motors with the rated speed of 2900rpm/1450rpm;
4. The curves are applicable to liquid with the kinematic viscosity $\gamma=1\text{mm}^2/\text{s}$ (1cst);
5. In order prevent the danger of overheating, the pump shall be ensured to operate within the range of curves to avoid overload of motor.

YS50-32-*



Performance Table

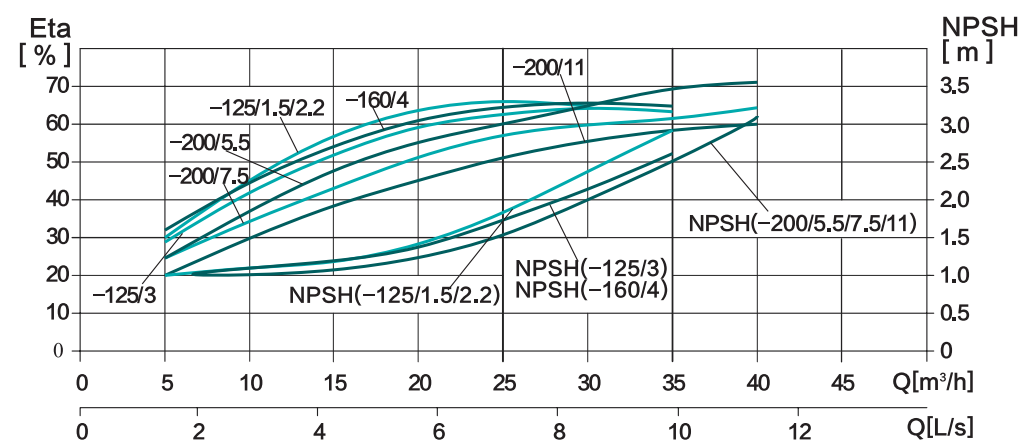
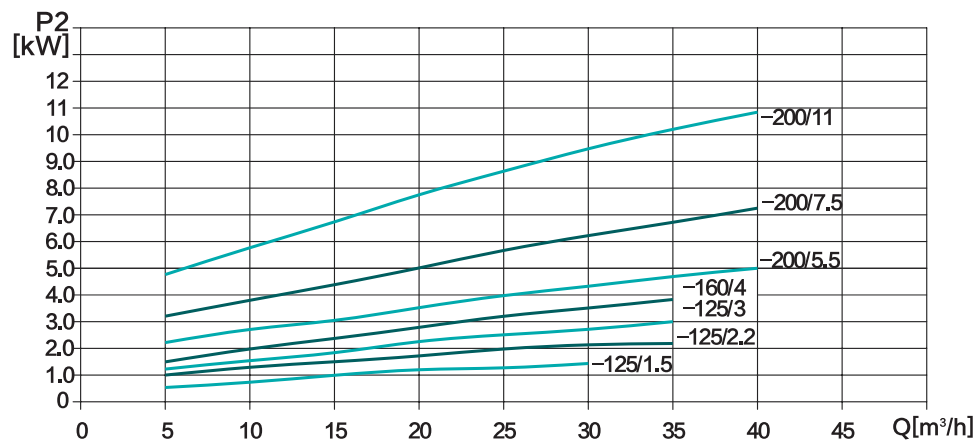
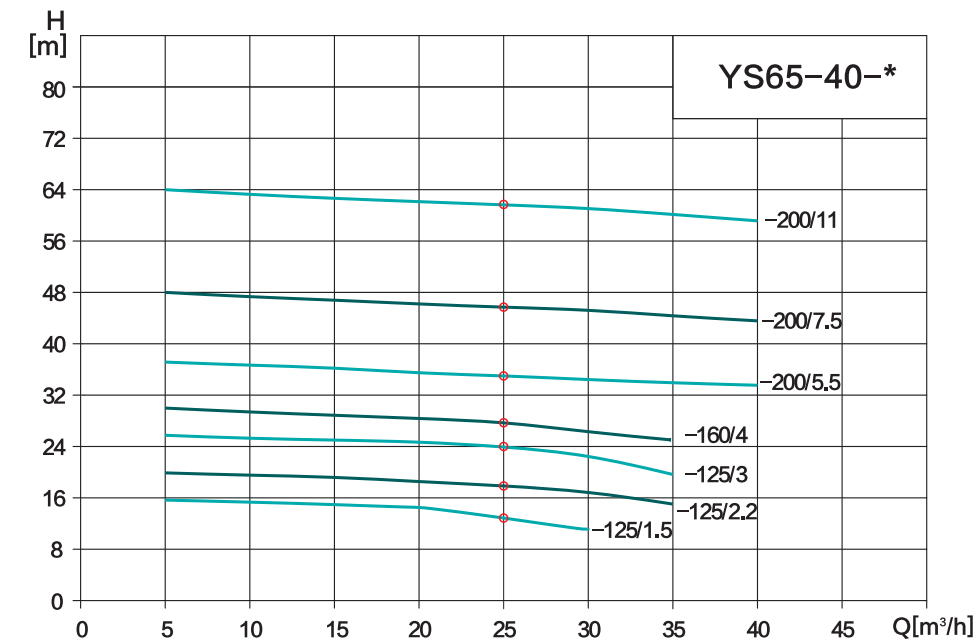
Model	Power (kW)	Q (m³/h)	3	6.3	9	15	18	20
YS50-32-160/1.5	1.5	H(m)	22.5	22	21	19	18	/
YS50-32-160/2.2	2.2		28	27	26.3	24	22.5	/
YS50-32-200/3	3		34.9	34.1	33.3	31	29.8	28.9
YS50-32-200/4	4		45.7	44.8	43.7	40.7	39	37.7
YS50-32-200/5.5	5.5		58.5	57.2	56	52.5	50	48.5



Dimensions and Weight

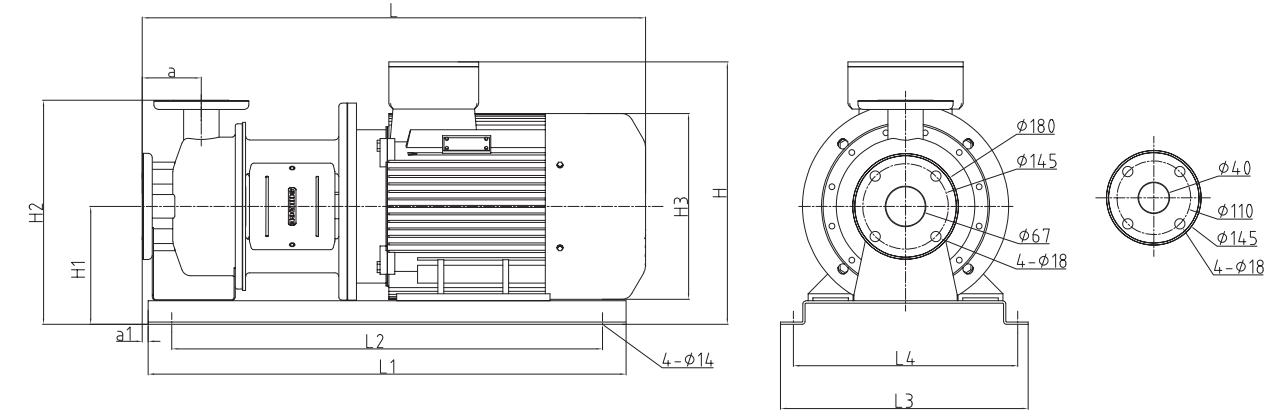
Pump model	Dimensions											Weight (kg)
	a	a1	L	L1	L2	L3	L4	H	H1	H2	H3	
YS50-32-160/1.5	82	2	466	500	430	280	240	283	152	296	168	27
YS50-32-160/2.2	82	2	466	500	430	280	240	283	152	296	168	29
YS50-32-200/3	82	3	516	550	480	330	290	328	200	386	191	43
YS50-32-200/4	82	7	512	550	480	330	290	350	200	386	214	48
YS65-20-200/5.5	100	6	685	660	580	370	330	408	200	386	258	77

YS65-40-*



Performance Table

Model	Power (kW)	Q (m³/h)	5	10	15	20	25	30	35	40
YS65-40-125/1.5	1.5	H(m)	15.5	15.4	15	14.4	13	11.3	/	/
YS65-40-125/2.2	2.2		20	19.7	19.5	19	18	16.7	15.2	/
YS65-40-125/3	3		25.7	25.3	25.1	24.8	24	22.3	20.3	/
YS65-40-160/4	4		30	29.7	29.3	28.9	28	26.5	24.5	/
YS65-40-200/5.5	5.5		37.4	37.2	36.7	36.4	36	35.5	34.6	33.3
YS65-40-200/7.5	7.5		48	47.5	47	46.6	46	45.2	44.5	43.3
YS65-40-200/11	11		64	63.5	63	62.5	62	61.5	60.5	59

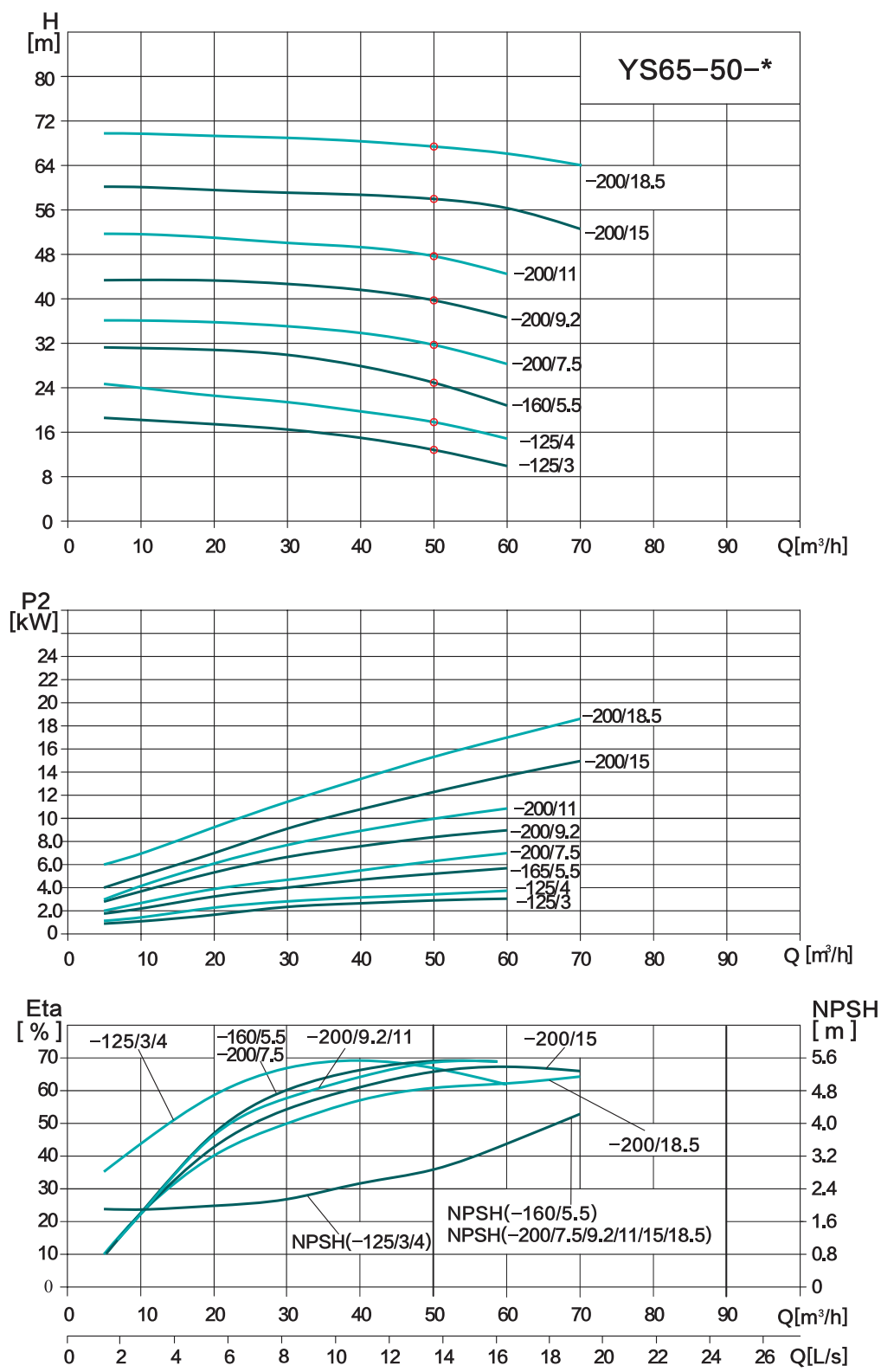


Dimensions and Weight

Pump model	Dimensions											Weight (kg)
	a	a1	L	L1	L2	L3	L4	H	H1	H2	H3	
YS65-40-125/1.5	82	7	472	500	430	280	240	283	152	294	168	23
YS65-40-125/2.2	82	7	472	500	430	280	240	283	152	294	168	25
YS65-40-125/3	82	7	516	530	460	300	260	283	152	294	191	37
YS65-40-160/4	82	7	506	550	480	330	290	302	152	294	214	42
YS65-40-200/5.5	100	10	700	660	580	370	330	408	200	380	258	78
YS65-40-200/7.5	100	10	700	660	580	370	330	408	200	380	258	82
YS65-40-200/11	100	10	853	810	730	420	380	455	200	380	315	161

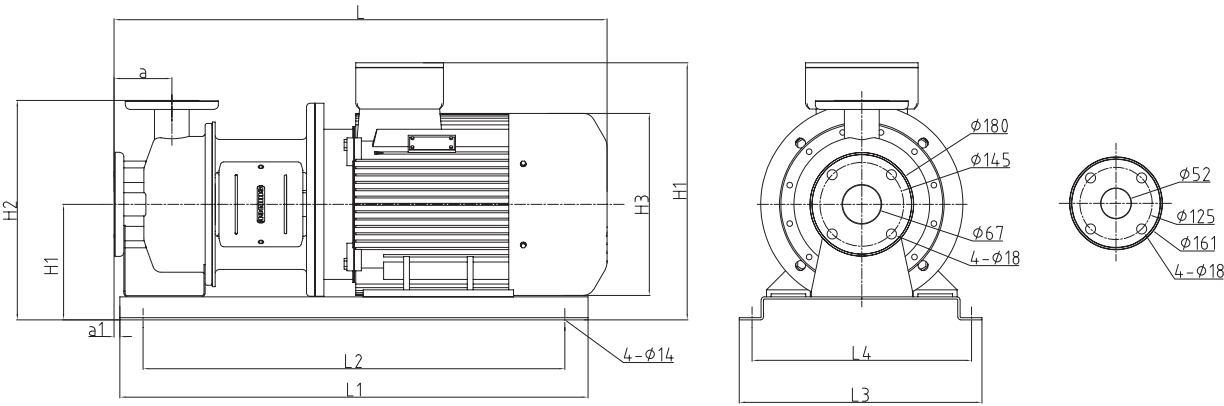
Note: The dimensions of the single phase motor and explosion-proof motor are subject to change. You can consult SHIMGE for more details.

YS65-50-*



Performance Table

Model	Power (kW)	Q (m³/h)	5	10	20	30	40	50	60	70
YS65-50-125/3	3	H(m)	18	17.8	17.2	16.4	15.1	13	10	/
YS65-50-125/4	4		24.2	24.2	23.6	22.6	20.7	18	14.8	/
YS65-50-160/5.5	5.5		31.6	31.5	31	30	28	25	21.5	/
YS65-50-200/7.5	7.5		36.3	36.6	36.4	35.6	34.1	32	29.6	/
YS65-50-200/9.2	9.2		43.5	43.5	43.5	43	42	40	37.5	/
YS65-50-200/11	11		51.5	51.5	51	50	49.3	48	45.6	/
YS65-50-200/15	15		59.7	59.7	59.6	59.5	59	58	56.2	53
YS65-50-200/18.5	18.5		70.2	70.2	70.1	70	69.1	68	66.4	64

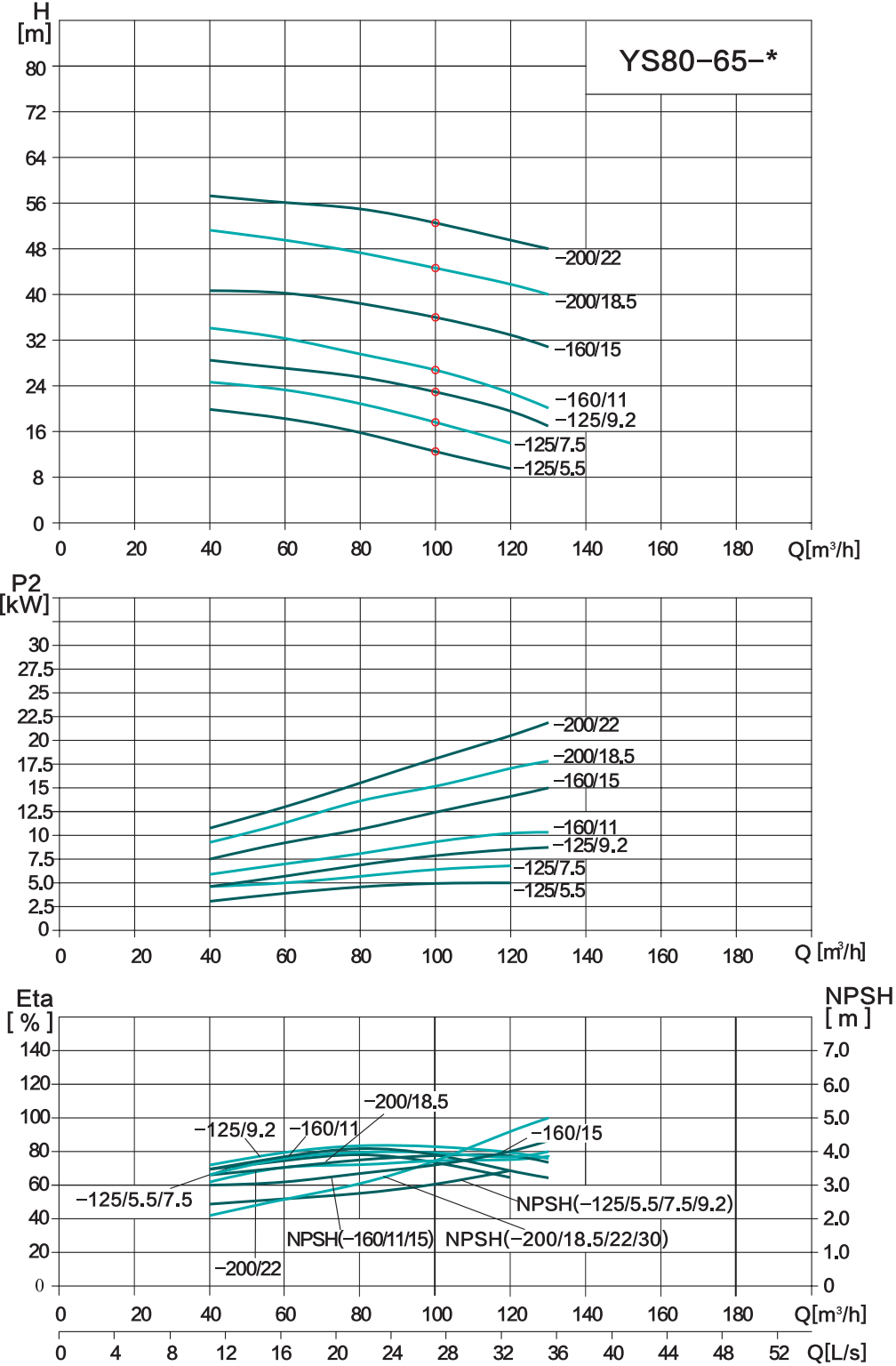


Dimensions and Weight

Pump model	Dimensions											Weight (kg)
	a	a1	L	L1	L2	L3	L4	H	H1	H2	H3	
YS65-50-125/3	86	11	525	550	490	330	290	304	172	338	196	39
YS65-50-125/4	86	11	514	550	490	330	290	322	172	338	214	44
YS65-50-160/5.5	100	10	700	660	580	370	330	408	200	380	258	78
YS65-20-200/7.5	100	10	700	660	580	370	330	363	200	380	258	82
YS65-20-200/9.2	100	10	738	660	580	370	330	363	200	380	258	85
YS65-50-200/11	100	10	853	810	730	420	380	455	200	380	315	161
YS65-50-200/15	100	10	853	810	730	420	380	455	200	380	315	171
YS65-50-200/18.5	100	10	898	810	730	420	380	455	200	380	315	188

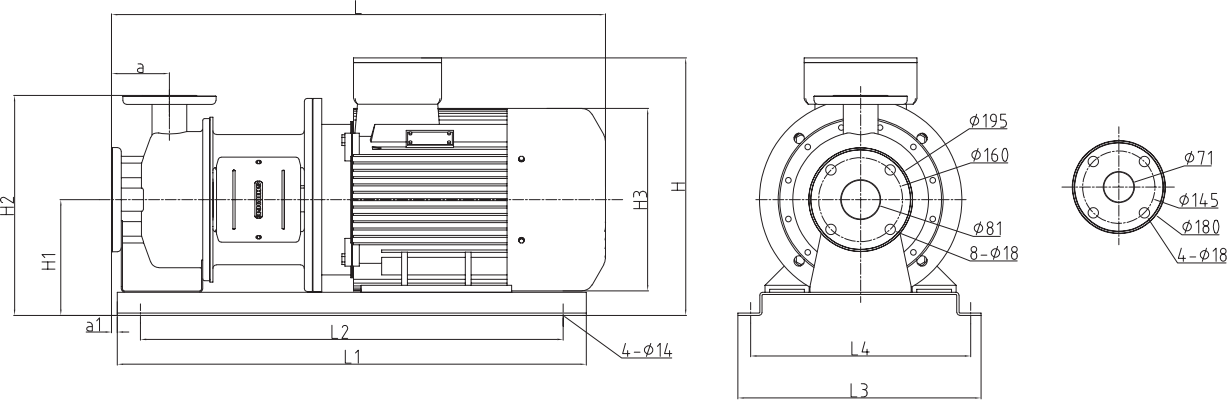
Note: The dimensions of the single phase motor and explosion-proof motor are subject to change. You can consult SHIMGE for more details.

YS80-65-*



Performance Table

Model	Power (kW)	Q (m³/h)	40	50	60	70	80	90	100	110	120	130
YS80-65-125/5.5	5.5	H(m)	19.3	18.7	18	17	15.8	14.8	13	11.4	9.7	/
YS80-65-125/7.5	7.5		24.5	23.8	23.1	22.2	21	19.6	18	16.2	14.1	/
YS80-65-125/9.2	9.2		28.1	27.8	27.3	26.6	25.7	24.3	23	21.8	20.1	18.3
YS80-65-160/11	11		33.9	33	32.2	31.3	29.9	28.8	27	25.1	22.9	20.7
YS80-65-160/15	15		41.8	41.1	40.4	39.5	38.6	37.6	36	34.8	33	31
YS80-65-200/18.5	18.5		51	50.5	49.6	48.7	47.6	46.3	45	43.5	42.2	40.2
YS80-65-200/22	22		57.7	57.2	56.8	55.9	55.1	54	53	51.6	49.7	48.2

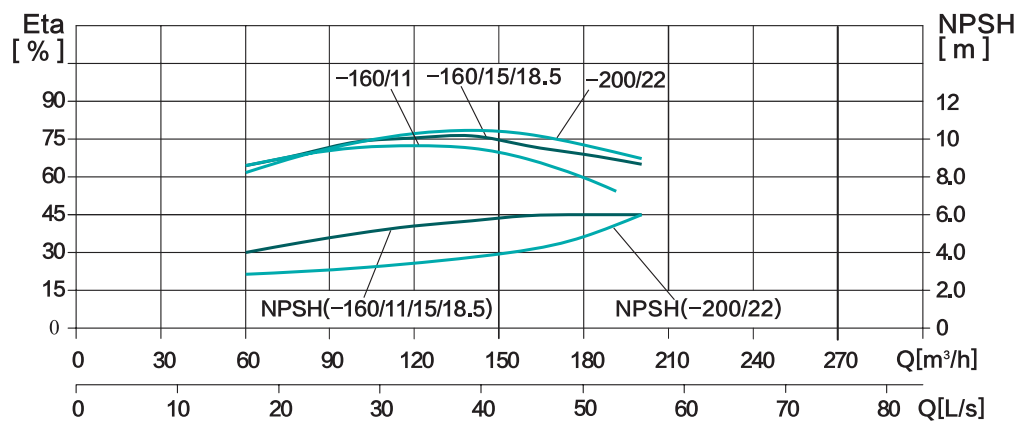
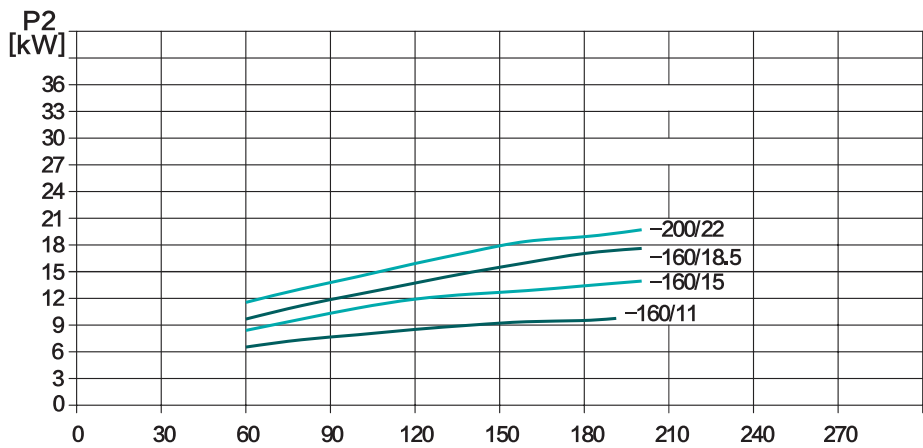
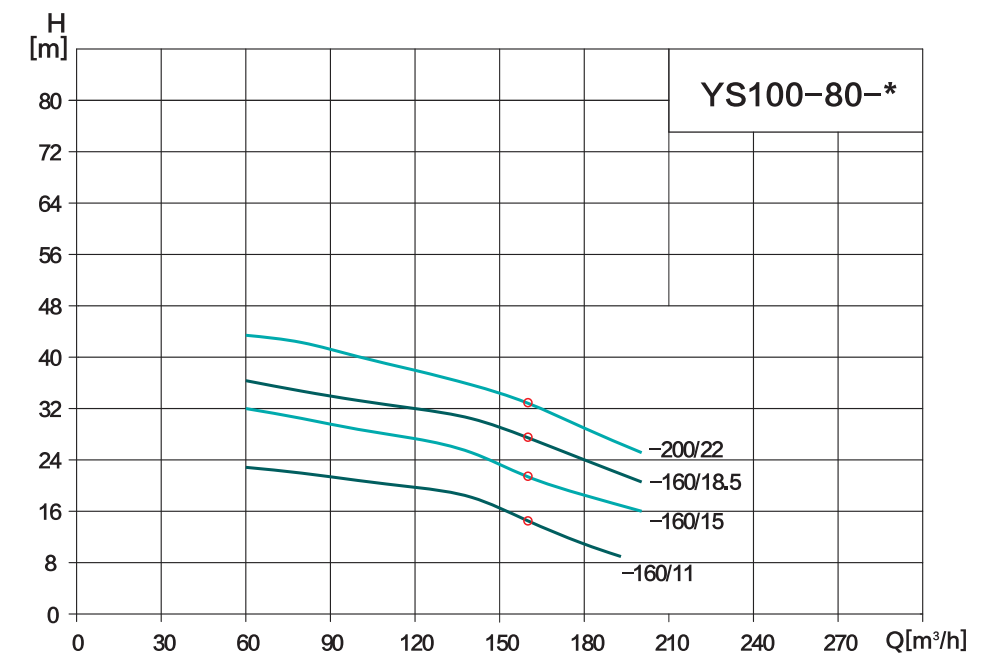


Dimensions and Weight

Pump model	Dimensions											Weight (kg)
	A	a	H	H1	h	L	L2	L3	L4	L5	L6	
YS80-65-125/5.5	100	10	700	660	580	370	330	408	200	380	258	79
YS80-65-125/7.5	100	10	700	660	580	370	330	408	200	380	258	83
YS80-65-125/9.2	100	10	738	660	580	370	330	408	200	380	258	87
YS80-65-160/11	100	10	853	810	730	420	380	455	200	400	315	163
YS80-65-160/15	100	10	853	810	730	420	380	455	200	400	315	173
YS80-65-200/18.5	100	10	898	810	730	420	380	455	200	425	315	190
YS80-65-200/22	100	20	933	890	810	450	415	490	220	445	355	220

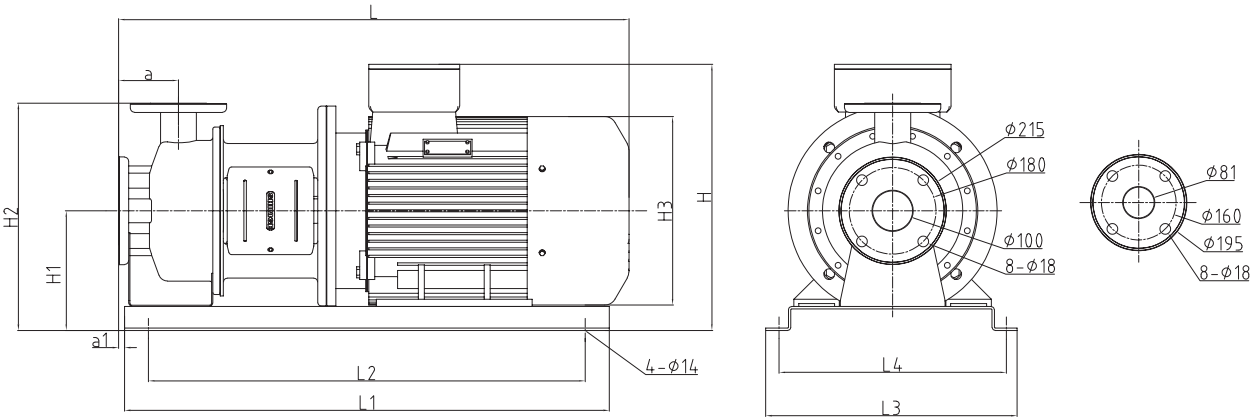
Note: The dimensions of the single phase motor and explosion-proof motor are subject to change. You can consult SHIMGE for more details.

YS100-80-*



Performance Table

Model	Power (kW)	Q (m³/h)	60	80	100	120	140	160	180	192	200
YS100-80-160/11	11	H(m)	23.8	22.7	21.1	19.7	17.6	15	11.8	9.7	/
YS100-80-160/15	15		32.3	30.8	29.1	27.2	25.1	22	18.8	/	16.1
YS100-80-160/18.5	18.5		36.2	35.2	33.8	32.7	31	28	24.8	/	21.5
YS100-80-200/22	22		43.5	42	39.7	38.3	35.9	33	29	/	24.9



Dimensions and Weight

Pump model	Dimensions											Weight (kg)
	a	a1	L	L1	L2	L3	L4	H	H1	H2	H3	
YS100-80-160/11	125	10	883	850	770	420	380	455	200	425	315	163
YS100-80-160/15	125	10	883	850	770	420	380	455	200	425	315	173
YS100-80-160/18.5	125	10	928	850	770	420	380	455	200	425	315	185
YS100-80-200/22	125	10	963	890	810	450	415	490	220	470	355	223

Note: The dimensions of the single phase motor and explosion-proof motor are subject to change. You can consult SHIMGE for more details.

Packing Sizes & Weight

Model	Dim.(mm)(L*W*H)	G.W.(kg)
YS50-32-160/1.5	540×310×350	32
YS50-32-160/2.2	540×310×350	34
YS50-32-200/3	580×360×440	50
YS50-32-200/4	600×360×440	52
YS50-32-200/5.5	830×440×550	87
YS65-40-125/1.5	540×310×350	28
YS65-40-125/2.2	540×310×320	30
YS65-40-125/3	570×330×320	43
YS65-40-160/4	590×360×320	50
YS65-40-200/5.5	830×440×550	88
YS65-40-200/7.5	830×440×550	92
YS65-40-200/11	980×490×590	175
YS65-50-125/3	570×360×390	44
YS65-50-125/4	590×360×390	53
YS65-50-160/5.5	830×440×550	88
YS65-50-200/7.5	830×440×550	92
YS65-50-200/9.2	830×440×550	95
YS65-50-200/11	980×490×590	175
YS65-50-200/15	980×490×590	185
YS65-50-200/18.5	1020×490×590	202
YS80-65-125/5.5	830×440×550	87
YS80-65-125/7.5	830×440×550	91
YS80-65-125/9.2	830×440×550	95
YS80-65-160/11	980×490×590	177
YS80-65-160/15	980×490×590	187
YS80-65-200/18.5	1020×490×590	204
YS80-65-200/22	1060×530×630	235
YS100-80-160/11	1030×450×590	177
YS100-80-160/15	1030×450×590	187
YS100-80-160/18.5	1050×450×590	199
YS100-80-200/22	1150×525×600	313

The BLA series light stainless steel vertical multistage centrifugal pumps



BL(T)-A

Model Instruction

BL 32 - 2 - 2-A

The matching motor is a permanent magnet motor

Number of small impellers

Number of stages

Rated flow rate (m³/h)

Light stainless steel vertical multistage centrifugal pump

Overview Of The Product

The BLA series light stainless steel vertical multistage centrifugal pumps are non-self-priming vertical multistage centrifugal pumps designed and manufactured by absorbing advanced technology both at home and abroad, and adopt IE5 permanent magnet variable frequency motor and alloy mechanical seal, which are easy to replace. The flow passage parts of the BLA pump are all made of stainless steel, and some flow passage parts of the BLTA pumps are made of cast iron, so they are applicable to lightly corrosive media. After the products are put on the market, they are deeply favored by users for their high efficiency, energy saving, reliable quality, and wide range of use.

Application

- ⦿ Temperature range of medium: Normal type 0 ~ +68°C , hot water type 68°C ~ +120°C
- ⦿ Maximum ambient temperature: +40°C
- ⦿ Maximum working pressure: 1.0 Mpa
- ⦿ When the density or viscosity of the transmission medium exceeds that of water, it is necessary to select a driving motor of high-power.
- ⦿ pH: 6.5 to 8.5

Applications Fields

- ⦿ Pressurized water supply
- ⦿ Water treatment system
- ⦿ Industrial liquid transportation
- ⦿ Farmland irrigation

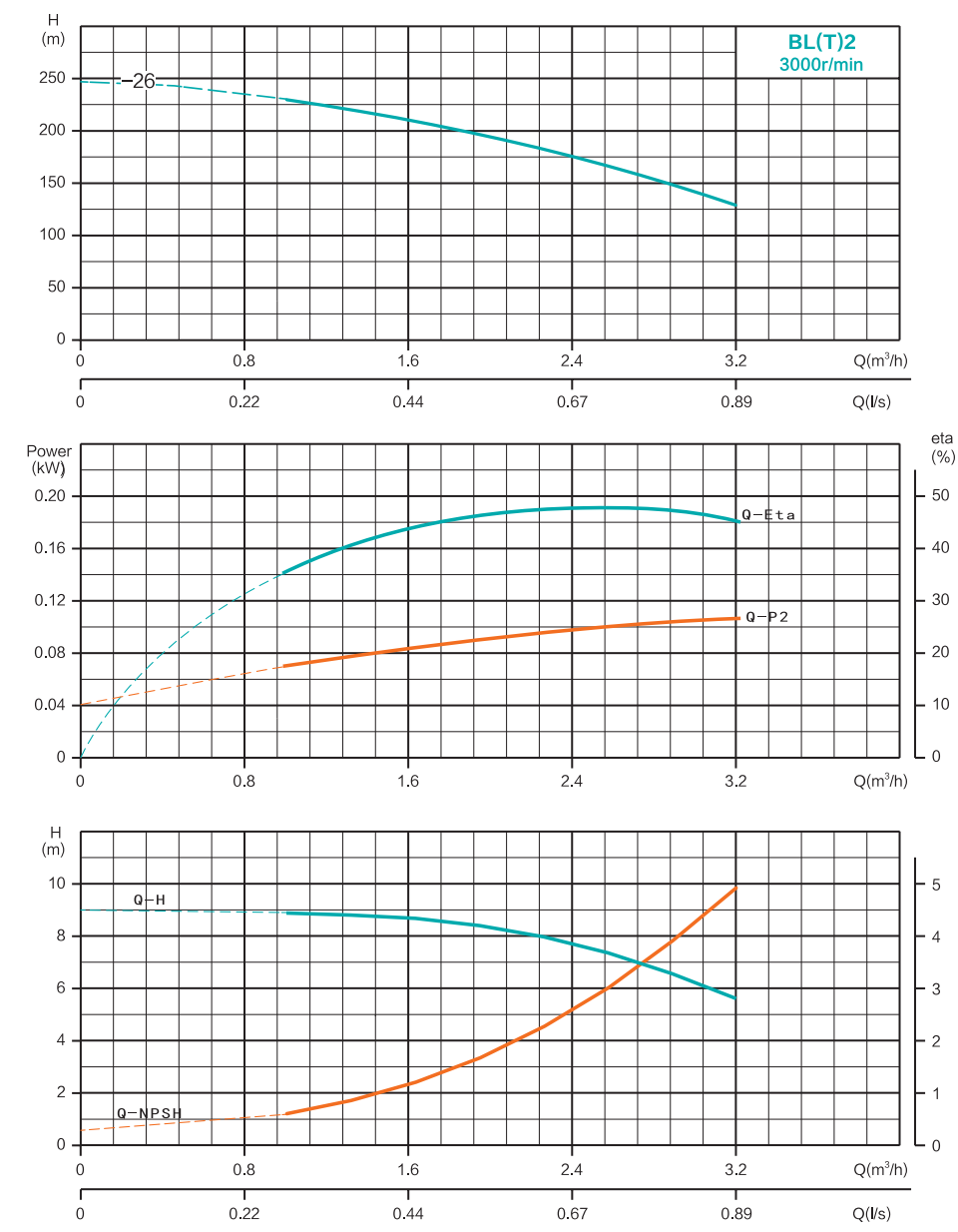
Certificate



Optional Available On Request

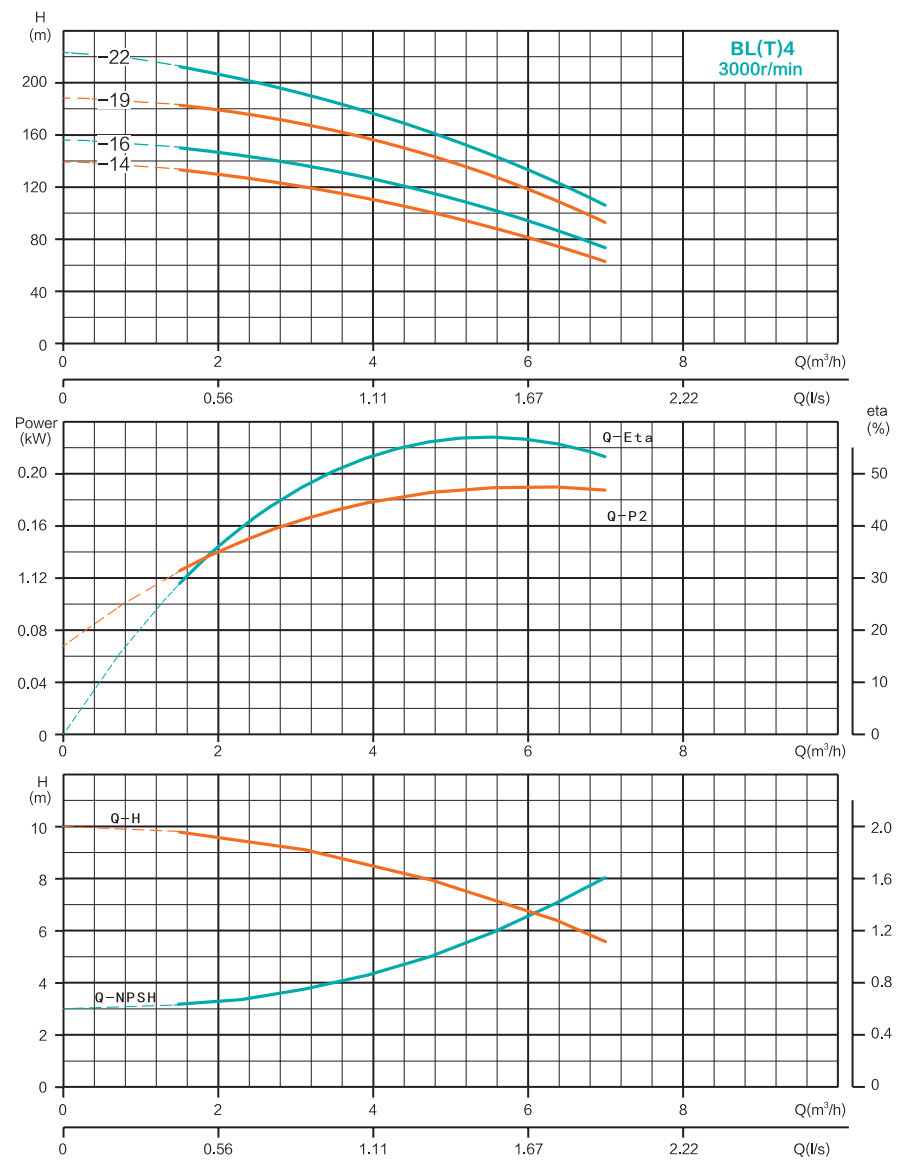
- ⦿ Insulation class: F
- ⦿ Standard voltage (50Hz): Single phase 220v
- ⦿ Three phase: 380v or 220v

Performance curve



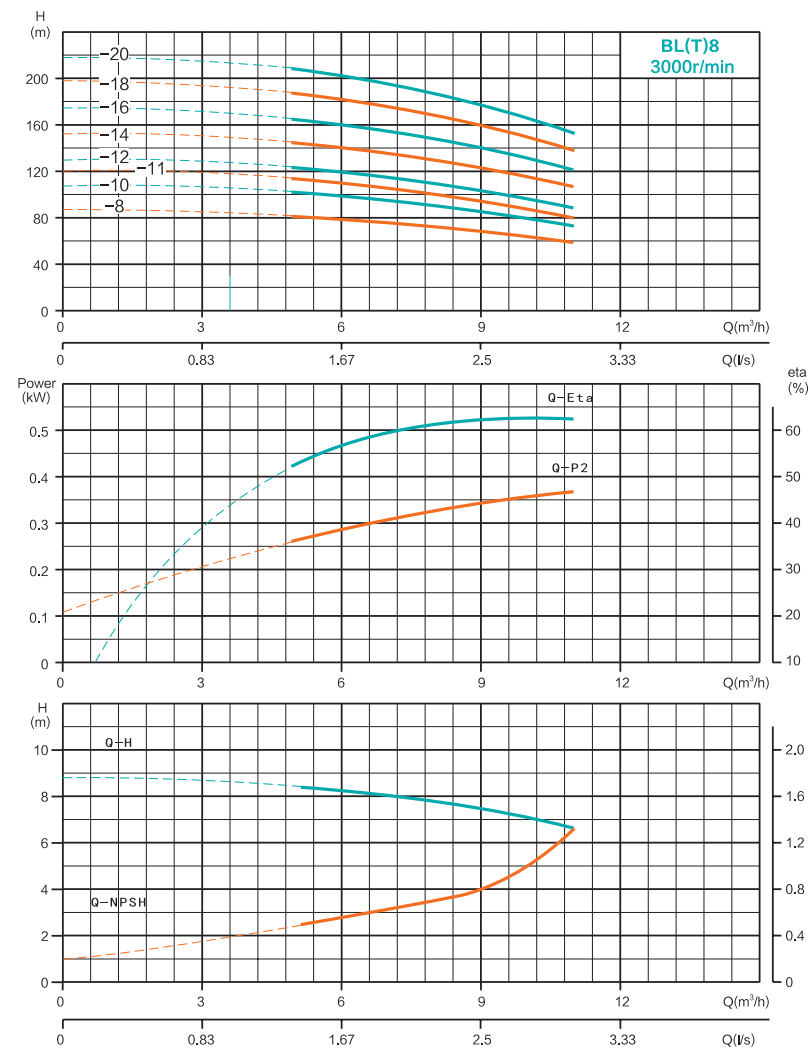
Model	Flow (m³/h)	Head(m)	Power(kW)	Maximum pressure(bar)
BL2-26A	2	198	3	23.2
BLT2-26A	2	198	3	23.2

Performance curve



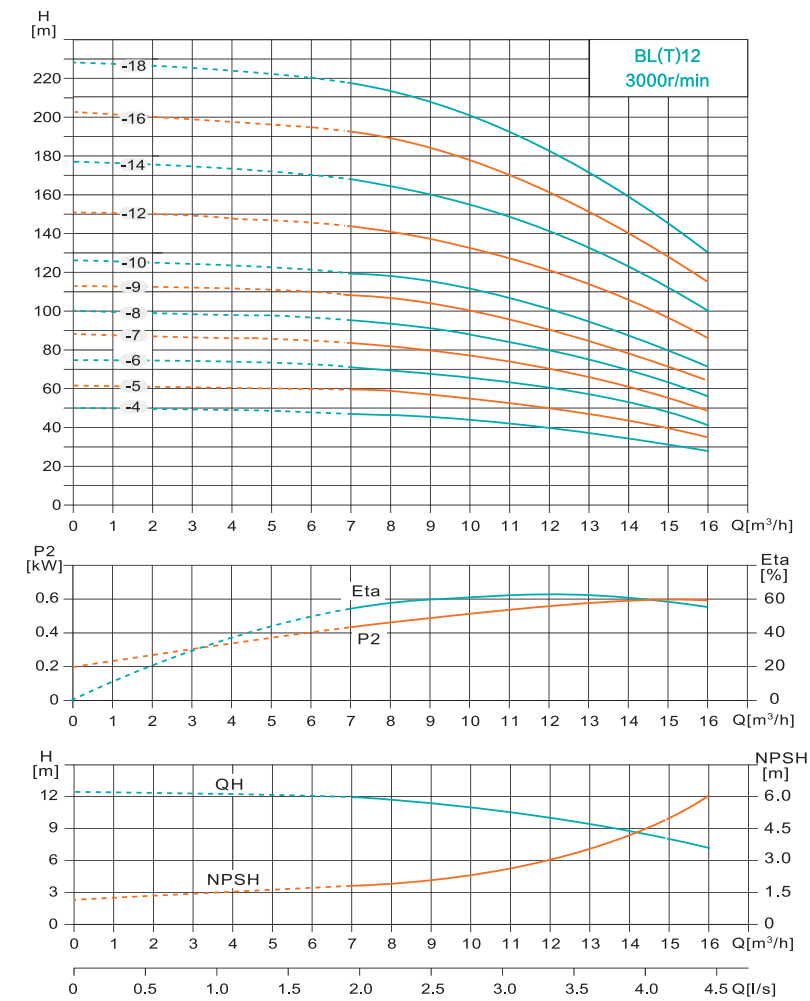
Model	Flow (m³/h)	Head(m)	Power(kW)	Maximum pressure(bar)
BL4-14A	4	112	3	13.6
BLT4-14A	4	112	3	13.6
BL4-16A	4	129	3	15.2
BLT4-16A	4	129	3	15.2
BL4-19A	4	153	4	18.3
BLT4-19A	4	153	4	18.3
BL4-22A	4	178	4	21.1
BLT4-22A	4	178	4	21.1

Performance curve



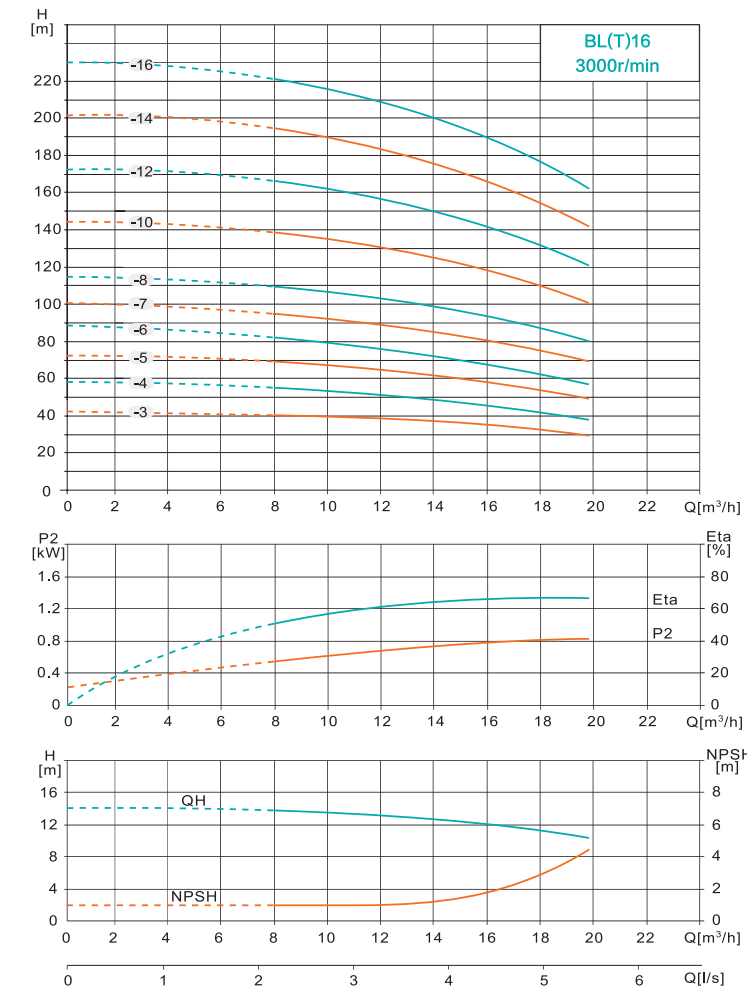
Model	Flow(m³/h)	Head(m)	Power(kW)	Maximum pressure(bar)
BL8-8A	8	73	3	8.3
BLT8-8A	8	73	3	8.3
BL8-10A	8	92	4	10.4
BLT8-10A	8	92	4	10.4
BL8-11A	8	101	4	11.4
BLT8-11A	8	101	4	11.4
BL8-12A	8	111	4	12.4
BLT8-12A	8	111	4	12.4
BL8-14A	8	130	5.5	14.5
BLT8-14A	8	130	5.5	14.5
BL8-16A	8	148	5.5	16.6
BLT8-16A	8	148	5.5	16.6
BL8-18A	8	167	7.5	18.7
BLT8-18A	8	167	7.5	18.7
BL8-20A	8	186	7.5	20.8
BLT8-20A	8	186	7.5	20.8

Performance curve



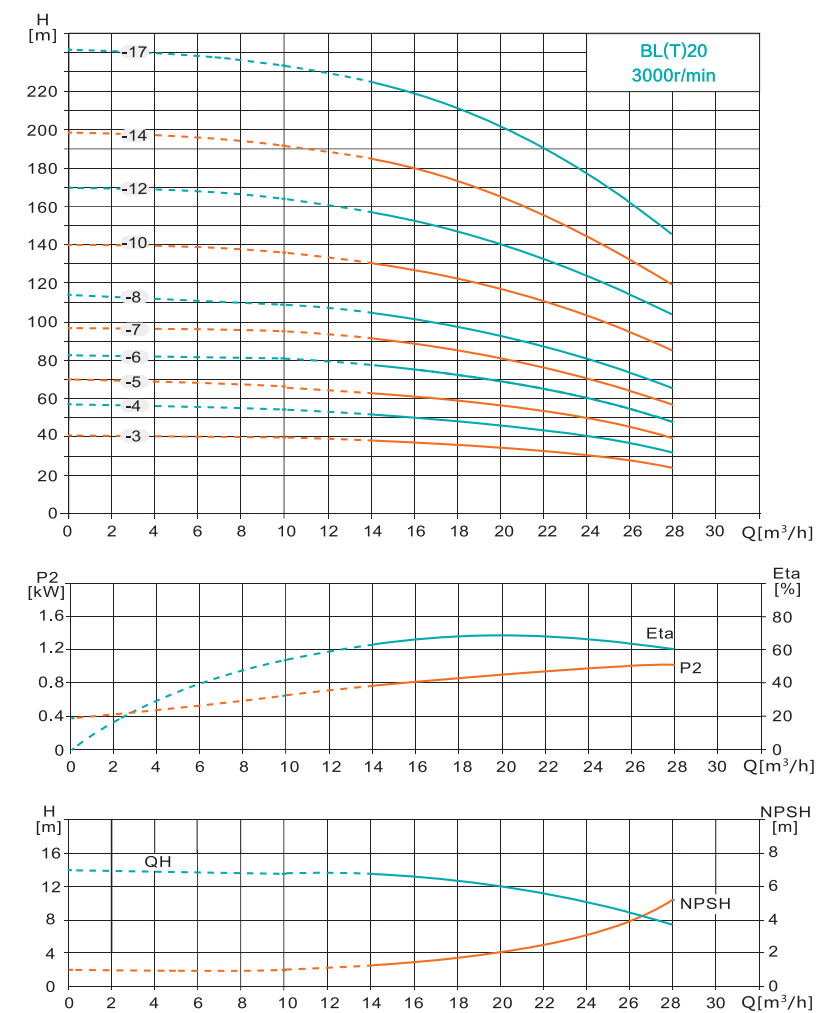
Model	Flow(m³/h)	Head(m)	Power(kW)	Maximum pressure(bar)
BL12-4A	12	40	3	4.7
BLT12-4A	12	40	3	4.7
BL12-5A	12	50	3	5.95
BLT12-5A	12	50	3	5.95
BL12-6A	12	60	4	7.15
BLT12-6A	12	60	4	7.15
BL12-7A	12	70	5.5	8.35
BLT12-7A	12	70	5.5	8.35
BL12-8A	12	80	5.5	9.55
BLT12-8A	12	80	5.5	9.55
BL12-9A	12	91	5.5	10.8
BLT12-9A	12	91	5.5	10.8
BL12-10A	12	101	7.5	12
BLT12-10A	12	101	7.5	12
BL12-12A	12	121	7.5	14.35
BLT12-12A	12	121	7.5	14.35
BL12-14A	12	141	11	16.8
BLT12-14A	12	141	11	16.8
BL12-16A	12	162	11	19.25
BLT12-16A	12	162	11	19.25
BL12-18A	12	183	11	21.7
BLT12-18A	12	183	11	21.7

Performance curve



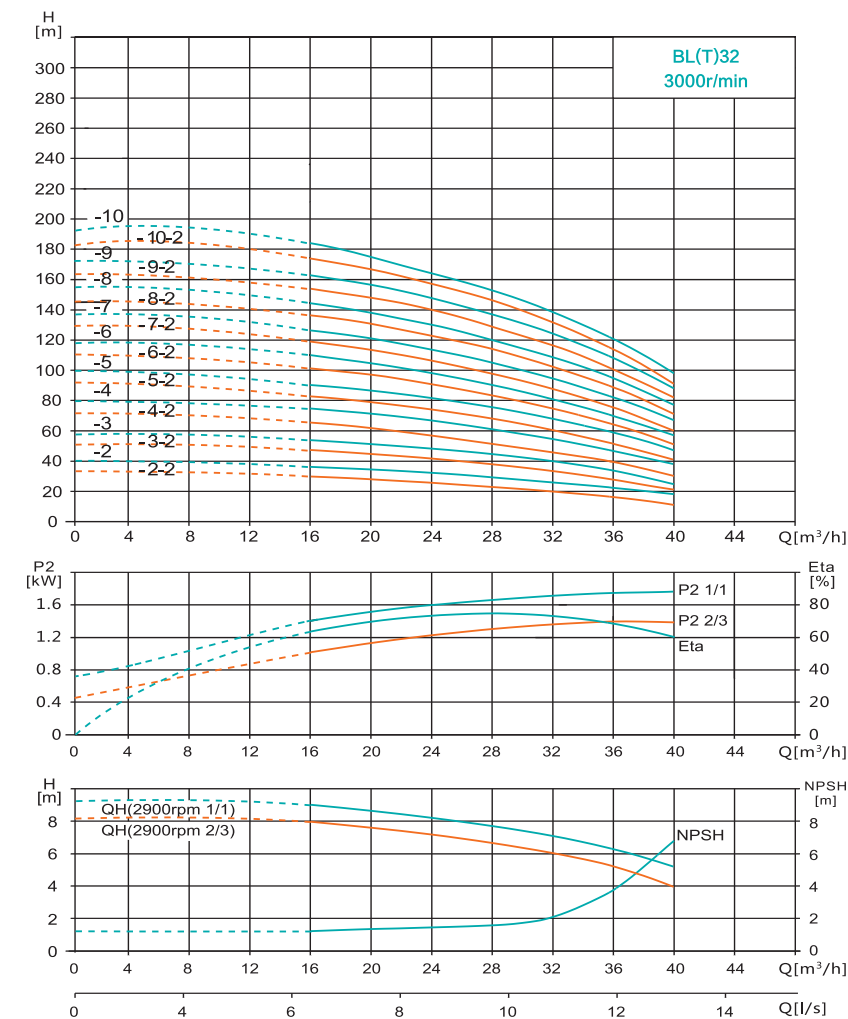
Model	Flow(m³/h)	Head(m)	Power(kW)	Maximum pressure(bar)
BL16-3A	16	34	3	4.1
BLT16-3A	16	34	3	4.1
BL16-4A	16	46	4	5.4
BLT16-4A	16	46	4	5.4
BL16-5A	16	58	5.5	6.8
BLT16-5A	16	58	5.5	6.8
BL16-6A	16	70	5.5	8.2
BLT16-6A	16	70	5.5	8.2
BL16-7A	16	82	7.5	9.6
BLT16-7A	16	82	7.5	9.6
BL16-8A	16	94	7.5	11
BLT16-8A	16	94	7.5	11
BL16-10A	16	118	11	13.8
BLT16-10A	16	118	11	13.8
BL16-12A	16	141	11	16.6
BLT16-12A	16	141	11	16.6
BL16-14A	16	166	15	19.4
BLT16-14A	16	166	15	19.4
BL16-16A	16	189	15	22.2
BLT16-16A	16	189	15	22.2

Performance curve



Model	Flow(m³/h)	Head(m)	Power(kW)	Maximum pressure(bar)
BL20-3A	20	35	4	3.9
BLT20-3A	20	35	4	3.9
BL20-4A	20	47	5.5	5.2
BLT20-4A	20	47	5.5	5.2
BL20-5A	20	58	5.5	6.4
BLT20-5A	20	58	5.5	6.4
BL20-6A	20	70	7.5	7.7
BLT20-6A	20	70	7.5	7.7
BL20-7A	20	82	7.5	9.1
BLT20-7A	20	82	7.5	9.1
BL20-8A	20	94	11	10.5
BLT20-8A	20	94	11	10.5
BL20-10A	20	118	11	13.1
BLT20-10A	20	118	11	13.1
BL20-12A	20	142	15	15.8
BLT20-12A	20	142	15	15.8
BL20-14A	20	166	15	18.5
BLT20-14A	20	166	15	18.5
BL20-17A	20	202	18.5	22.5
BLT20-17A	20	202	18.5	22.5

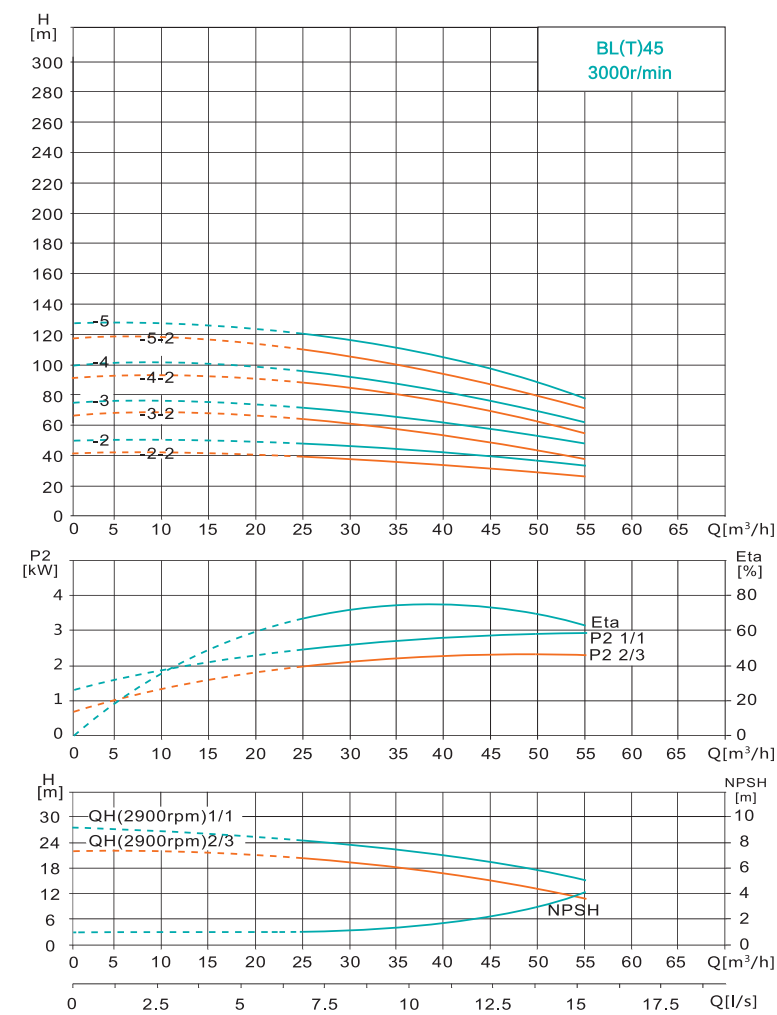
Performance curve



Model	Flow (m³/h)	Head (m)	Power (kW)	Maximum pressure(bar)
BL32-2-2A	32	20	3	2.9
BLT32-2-2A	32	20	3	2.9
BL32-2A	32	27	4	3.6
BLT32-2A	32	27	4	3.6
BL32-3-2A	32	33	5.5	4.7
BLT32-3-2A	32	33	5.5	4.7
BL32-3A	32	40	5.5	5.4
BLT32-3A	32	40	5.5	5.4
BL32-4-2A	32	46	7.5	6.5
BLT32-4-2A	32	46	7.5	6.5
BL32-4A	32	53	7.5	7.2
BLT32-4A	32	53	7.5	7.2
BL32-5-2A	32	60	11	8.3
BLT32-5-2A	32	60	11	8.3
BL32-5A	32	67	11	9
BLT32-5A	32	67	11	9
BL32-6-2A	32	74	11	10.1
BLT32-6-2A	32	74	11	10.1

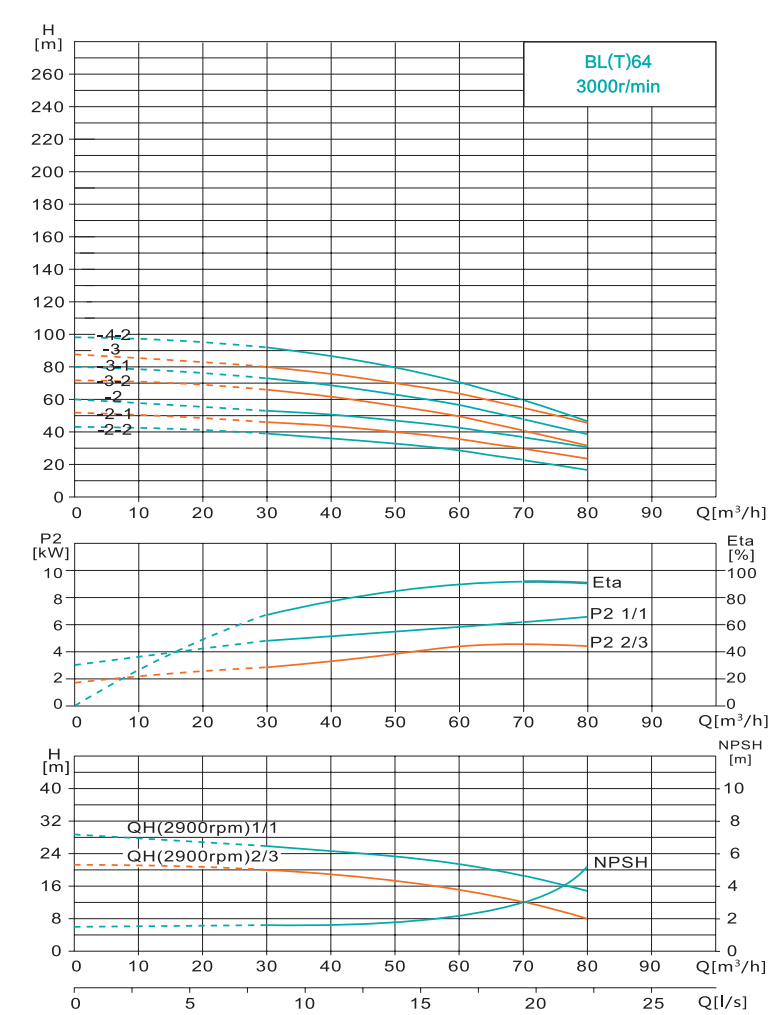
Model	Flow (m³/h)	Head (m)	Power (kW)	Maximum pressure(bar)
BL32-6A	32	81	11	10.8
BLT32-6A	32	81	11	10.8
BL32-7-2A	32	88	15	11.9
BLT32-7-2A	32	88	15	11.9
BL32-7A	32	95	15	12.6
BLT32-7A	32	95	15	12.6
BL32-8-2A	32	102	15	13.6
BLT32-8-2A	32	102	15	13.6
BL32-8A	32	109	15	14.4
BLT32-8A	32	109	15	14.4
BL32-9-2A	32	117	18.5	15.4
BLT32-9-2A	32	117	18.5	15.4
BL32-9A	32	124	18.5	16.2
BLT32-9A	32	124	18.5	16.2
BL32-10-2A	32	131	18.5	17.5
BLT32-10-2A	32	131	18.5	17.5
BL32-10A	32	138	18.5	18.2
BLT32-10A	32	138	18.5	18.2

Performance curve



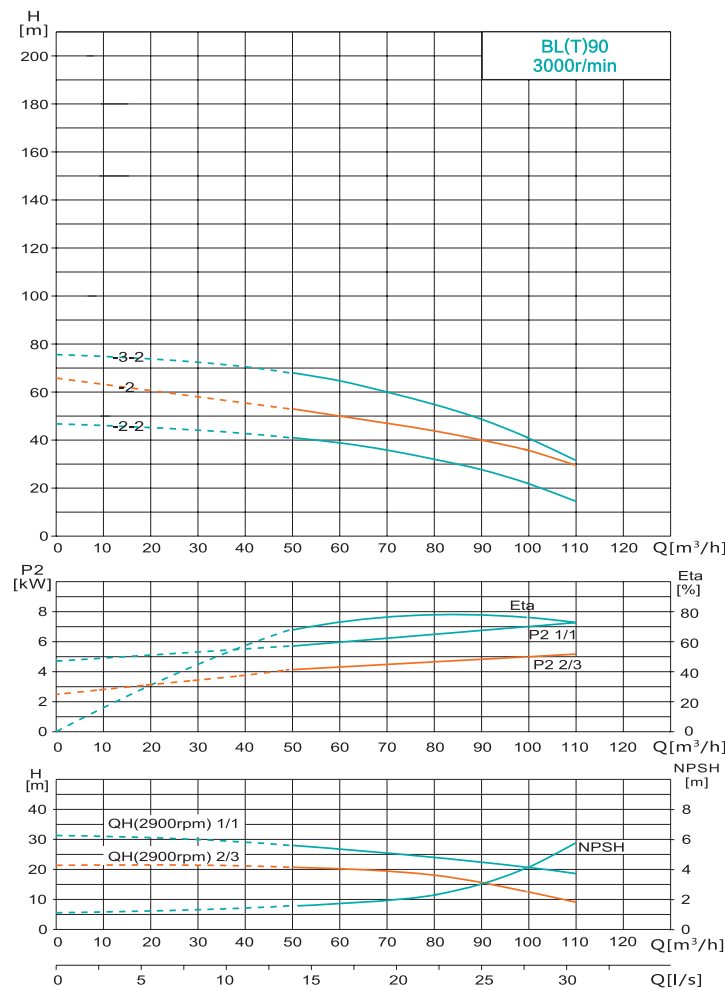
Model	Flow(m³/h)	Head(m)	Power(kW)	Maximum pressure(bar)
BL45-2-2A	45	30	5.5	4
BLT45-2-2A	45	30	5.5	4
BL45-2A	45	39	7.5	4.8
BLT45-2A	45	39	7.5	4.8
BL45-3-2A	45	50	11	6.3
BLT45-3-2A	45	50	11	6.3
BL45-3A	45	58	11	7.1
BLT45-3A	45	58	11	7.1
BL45-4-2A	45	69	15	8.7
BLT45-4-2A	45	69	15	8.7
BL45-4A	45	78	15	9.5
BLT45-4A	45	78	15	9.5
BL45-5-2A	45	88	18.5	11.1
BLT45-5-2A	45	88	18.5	11.1
BL45-5A	45	97	18.5	11.9
BLT45-5A	45	97	18.5	11.9

Performance curve



Model	Flow(m³/h)	Head(m)	Power(kW)	Maximum pressure(bar)
BL64-2-2A	64	26	7.5	3.9
BLT64-2-2A	64	26	7.5	3.9
BL64-2-1A	64	33	11	4.6
BLT64-2-1A	64	33	11	4.6
BL64-2A	64	40	11	5.3
BLT64-2A	64	40	11	5.3
BL64-3-2A	64	46	15	6.6
BLT64-3-2A	64	46	15	6.6
BL64-3-1A	64	53	15	7.3
BLT64-3-1A	64	53	15	7.3
BL64-3A	64	60	18.5	8
BLT64-3A	64	60	18.5	8
BL64-4-2A	64	66	18.5	9.2
BLT64-4-2A	64	66	18.5	9.2

Performance curve



Model	Flow(m³/h)	Head(m)	Power(kW)	Maximum pressure(bar)
BL90-2-2A	90	28	11	4.1
BLT90-2-2A	90	28	11	4.1
BL90-2A	90	40	15	5.3
BLT90-2A	90	40	15	5.3
BL90-3-2A	90	49	18.5	6.8
BLT90-3-2A	90	49	18.5	6.8

Packing Sizes & Weight

Model	Dim.(mm)(L*W*H)	BL G.W.(kg)	BLT G.W.(kg)
BL(T)2-26A	1150×390×320	66	70
BL(T)4-14A	1060×390×320	62	73
BL(T)4-16A	1110×390×320	64	76
BL(T)4-19A	1190×410×320	67	88
BL(T)4-22A	1270×410×320	69	92
BL(T)8-8A	1000×370×360	72	78
BL(T)8-10A	1060×400×420	76	89
BL(T)8-11A	1100×400×420	77	90
BL(T)8-12A	1160×410×420	86	100
BL(T)8-14A	1220×410×420	91	120
BL(T)8-16A	1280×410×420	94	123
BL(T)8-18A	1350×410×420	97	130
BL(T)8-20A	1410×410×420	100	133
BL(T)12-4A	900×380×360	64	75
BL(T)12-5A	900×380×360	66	76
BL(T)12-6A	950×380×360	67	85
BL(T)12-7A	1030×400×420	71	111
BL(T)12-8A	1030×400×420	73	113
BL(T)12-9A	1060×400×420	74	114
BL(T)12-10A	1100×400×420	77	120
BL(T)12-12A	1160×410×420	81	122
BL(T)12-14A	1370×500×500	112	131
BL(T)12-16A	1420×500×500	116	134
BL(T)12-18A	1490×500×500	120	137
BL(T)16-3A	900×380×360	68	75
BL(T)16-4A	950×380×360	69	84
BL(T)16-5A	1030×400×420	80	110
BL(T)16-6A	1060×400×420	82	113
BL(T)16-7A	1100×400×420	83	120
BL(T)16-8A	1160×410×420	84	121
BL(T)16-10A	1370×500×500	123	130
BL(T)16-12A	1460×500×500	127	134
BL(T)16-14A	1550×500×500	150	156
BL(T)16-16A	1640×500×500	155	160
BL(T)20-3A	900×380×360	67	83
BL(T)20-4A	950×380×360	78	109
BL(T)20-5A	1030×400×420	80	111
BL(T)20-6A	1060×400×420	81	118
BL(T)20-7A	1100×400×420	82	119

Packing Sizes & Weight

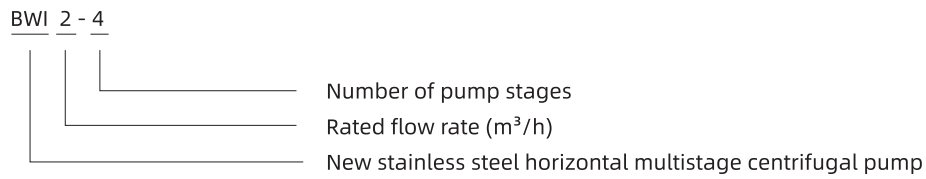
Model	Dim.(mm)(L*W*H)	BL G.W.(kg)	BLT G.W.(kg)
BL(T)20-8A	1280×500×500	118	126
BL(T)20-10A	1370×500×500	123	131
BL(T)20-12A	1460×500×500	144	152
BL(T)20-14A	1550×500×500	149	157
BL(T)20-17A	1710×500×500	154	162
BL(T)32-2-2A	1060×390×470	101	113
BL(T)32-2A	1060×390×470	101	113
BL(T)32-3-2A	1150×420×470	103	131
BL(T)32-3A	1150×420×470	103	131
BL(T)32-4-2A	1220×420×470	104	137
BL(T)32-4A	1220×420×470	104	137
BL(T)32-5-2A	1510×500×500	142	148
BL(T)32-5A	1510×500×500	142	148
BL(T)32-6-2A	1510×500×500	146	151
BL(T)32-6A	1510×500×500	146	151
BL(T)32-7-2A	1550×500×500	168	174
BL(T)32-7A	1550×500×500	168	174
BL(T)32-8-2A	1550×500×500	171	177
BL(T)32-8A	1550×500×500	171	177
BL(T)32-9-2A	1830×500×500	173	179
BL(T)32-9A	1830×500×500	173	179
BL(T)32-10-2A	1830×500×500	176	182
BL(T)32-10A	1830×500×500	176	182
BL(T)45-2-2A	1140×440×500	111	145
BL(T)45-2A	1140×440×500	111	145
BL(T)45-3-2A	1440×500×500	144	155
BL(T)45-3A	1440×500×500	144	155
BL(T)45-4-2A	1440×500×500	165	175
BL(T)45-4A	1440×500×500	165	175
BL(T)45-5-2A	1550×500×500	169	180
BL(T)45-5A	1550×500×500	169	180
BL(T)64-2-2A	1100×440×500	133	163
BL(T)64-2-1A	1440×500×500	150	153
BL(T)64-2A	1440×500×500	150	153
BL(T)64-3-2A	1510×520×520	171	174
BL(T)64-3-1A	1510×520×520	171	174
BL(T)64-3A	1490×520×520	169	172
BL(T)64-4-2A	1490×520×520	173	177
BL(T)90-2-2A	1440×500×500	151	163
BL(T)90-2A	1440×500×500	168	180
BL(T)90-3-2A	1490×520×520	171	182

BWI series new light stainless steel horizontal multistage centrifugal pump



BWI

Model Instruction



Overview Of The Product

BWI series new light stainless steel horizontal multistage centrifugal pump is a multi-purpose non-self-priming horizontal multistage centrifugal pump. This series of products has the characteristics of high efficiency, low noise and stable operation. The whole is compact, easy to install, easy to use and maintain. The overflow part is made of high-quality 304 stainless steel stamping and welding.

Application Limits

- ◎ Thin, clean, non-combustible, and non-explosive liquid containing no solid particle or fiber
- ◎ Applicable to deliver tap water, alkaline mineral water, softened water or mildly-corrosive medium
- ◎ The use of a large-power motor must be considered when the density or viscosity of the medium delivered is higher than that of water.
- ◎ Medium temperature: 0°C ~ +68°C for normal temperature type; 68°C ~ +120°C for hot water type
- ◎ Ambient temperature: -15°C ~ +40°C ; maximum operating pressure: 1.0MPa

Applications Fields

- ◎ Air conditioning system
- ◎ Filling machinery
- ◎ Environmental engineering
- ◎ Water supply and pressurization system
- ◎ Fertilization and metering system
- ◎ Cooling system
- ◎ Industrial cleaning
- ◎ Aquaculture
- ◎ Water treatment system application
- ◎ Supporting use of chiller

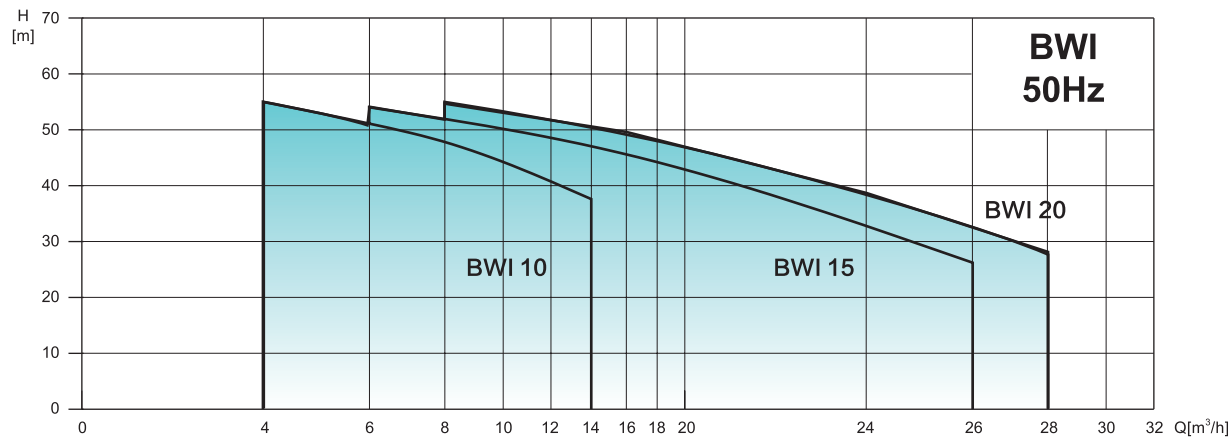
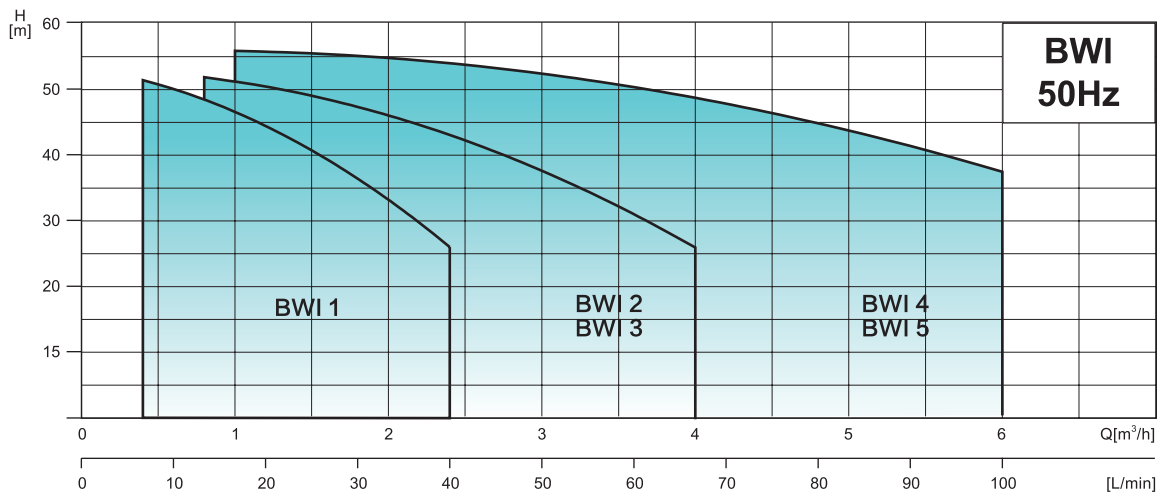
Certificate



Optional Available On Request

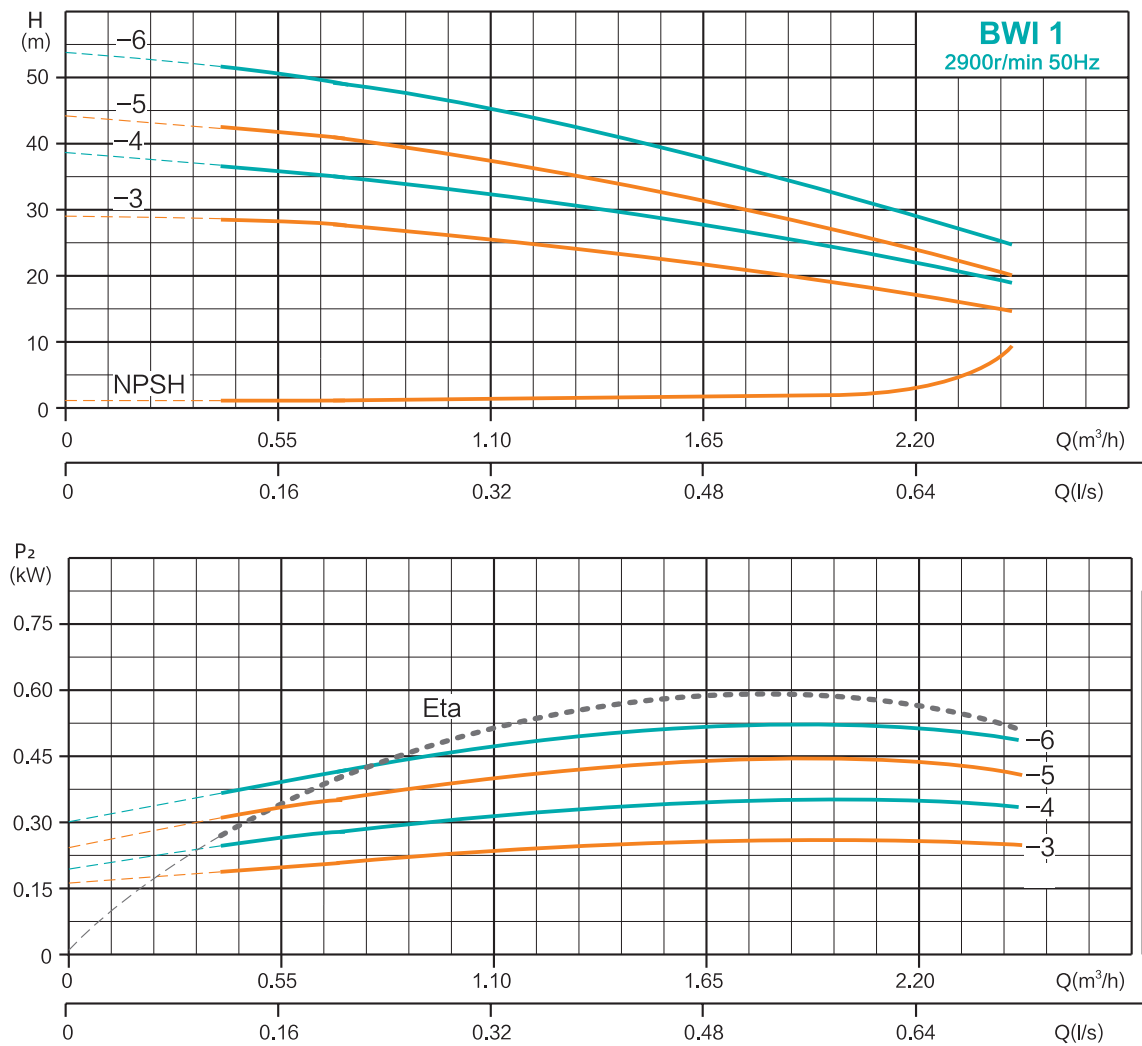
- ◎ Protection class: IP55
- ◎ Insulation class: F
- ◎ Working method: S1
- ◎ Voltage level: 220V/50Hz, 380V/50Hz

Performance Curve



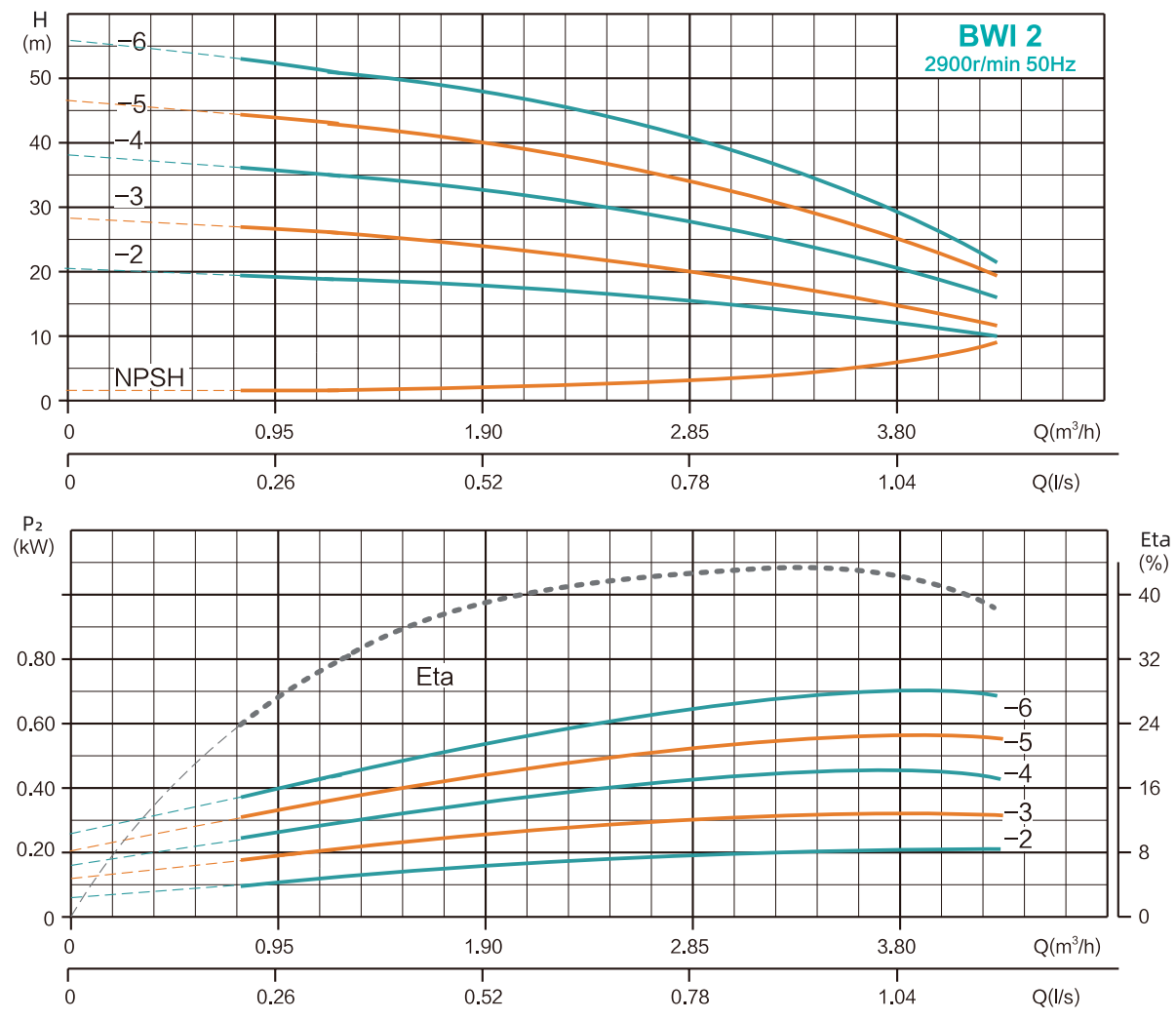
Model	Rated flow (m³/h)	Flow range (m³/h)	Maximum pressure (bar)	Motor power (kW)	Maximum efficiency (%)	Temperature range (°C)	Inlet	Outlet
BWI 1	1	0.4-2.4	5.1	0.25-0.37	28	0°C ~ +68°C	G1	G1
BWI 2	2	0.8-4	5.6	0.25-0.75	39		G1	G1
BWI 3	3	0.8-4	5.6	0.25-0.75	49		G1	G1
BWI 4	4	1-6	5.6	0.37-1.3	52		G1 1/4	G1
BWI 5	5	1-6	5.6	0.37-1.3	56		G1 1/4	G1
BWI 10	10	5-14	10	0.55-1.8	68		G1 1/2	G1 1/2
BWI 15	15	8-24	10	0.75-3	66		G2	G2
BWI 20	20	10-29	10	1.1-4	68		G2	G2

BWI 1 Performance Curve



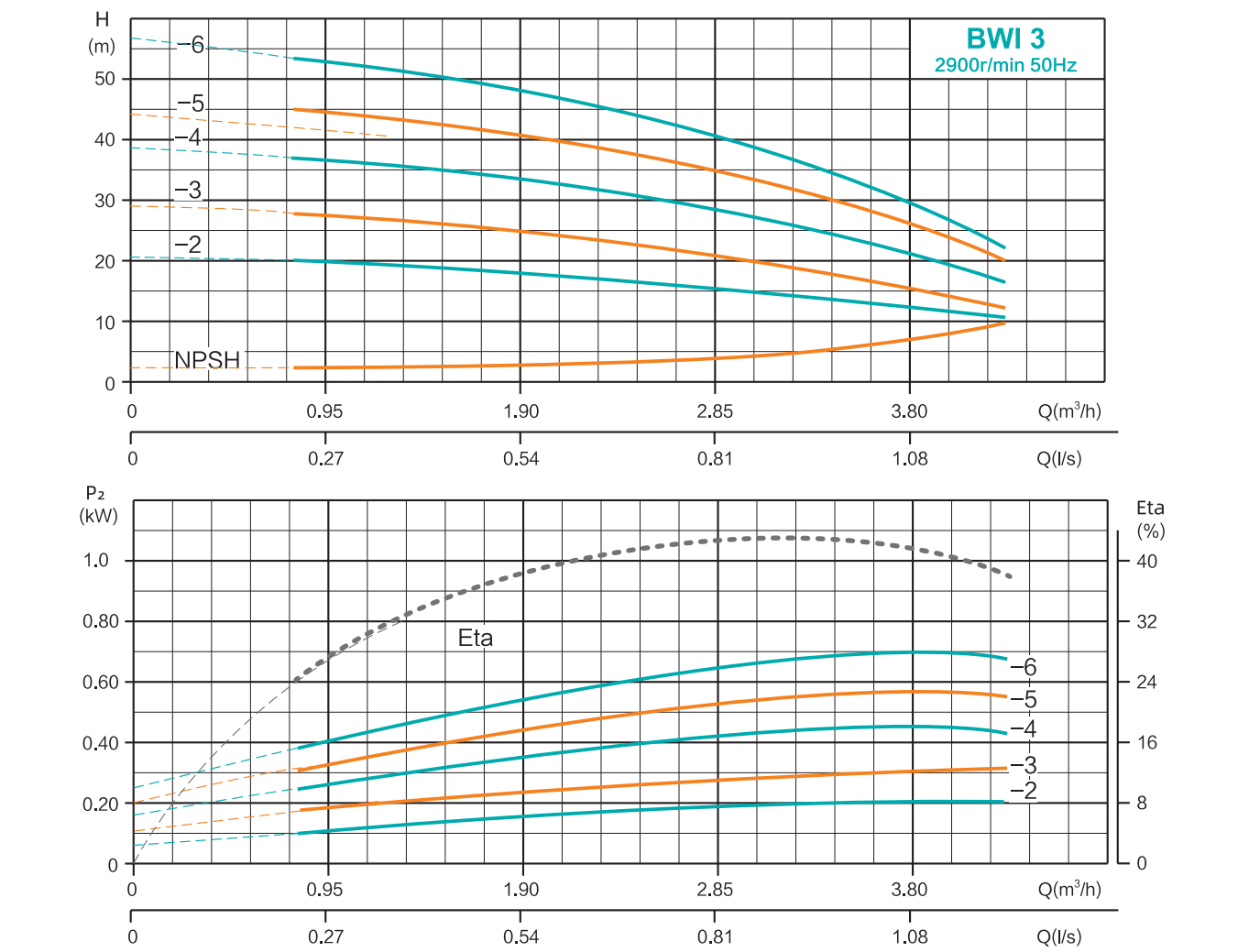
Model	Power	Q (m³/h)	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.0	2.2	2.4
BWI 1-3	0.25	H(m)	29	28.5	26	25	24.5	23.5	22	21	19	17	16
BWI 1-4	0.37		37	36	35	33	32	30	28	27	26	22	20
BWI 1-5	0.37		43	42	41	38	36	34	32	29	27	25	22
BWI 1-6	0.37		51	50	49	46	44	42	40	36	32	30	26

BWI 2 Performance Curve



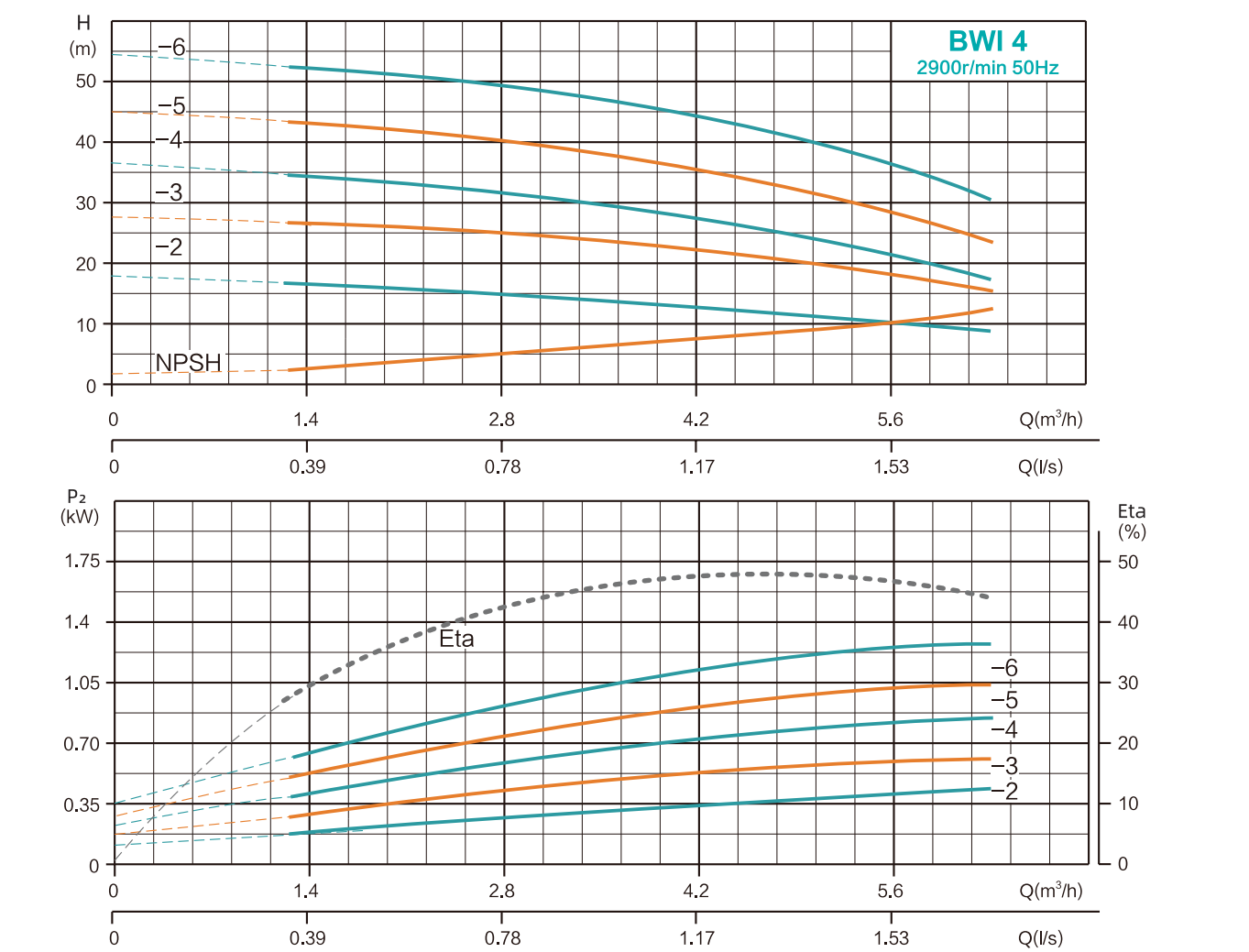
Model	Power	Q (m³/h)	0.8	1.2	1.6	2.0	2.4	2.8	3.2	3.6	4.0
BWI 2-2	0.25	H(m)	18.5	17.5	17	16	15	14	12	11	9.5
BWI 2-3	0.37		26	25	24	23	22	21	19	16	14
BWI 2-4	0.55		35	34	33	31	30	28	26	22	19
BWI 2-5	0.55		43	42	41	39	37	35	32	27.5	23
BWI 2-6	0.75		52	50.5	47	46	44	40	35	30.5	26

BWI 3 Performance Curve



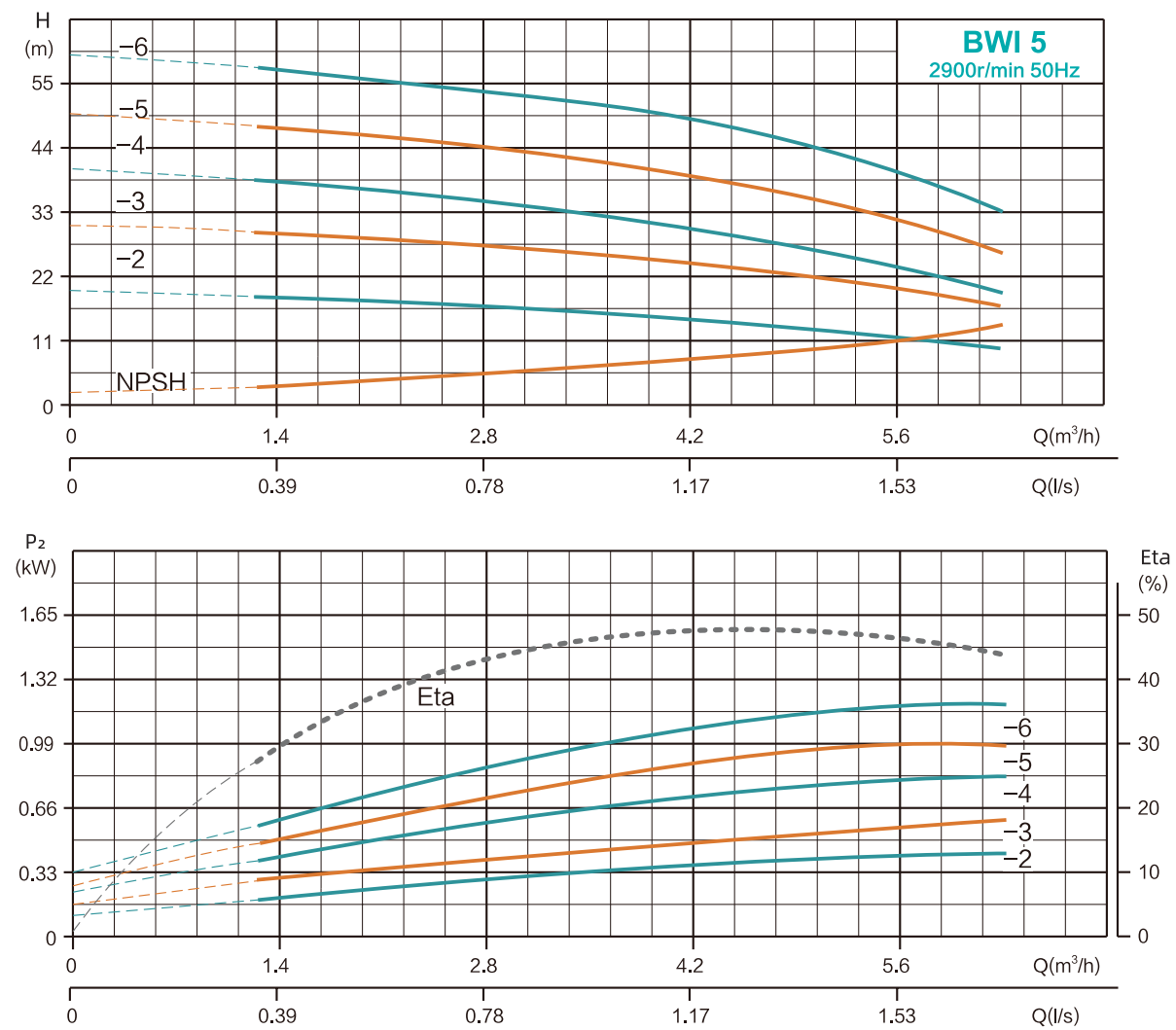
Model	Power	Q (m³/h)	0.8	1.2	1.6	2.0	2.4	2.8	3.0	3.2	3.6	4.0
BWI 3-2	0.25	H(m)	18.5	17.5	17	16	15	14	13	12	11	9.5
BWI 3-3	0.37		26	25	24	23	22	21	20	19	16	14
BWI 3-4	0.55		35	34	33	31	30	28	27	26	22	19
BWI 3-5	0.55		43	42	41	39	37	35	33	32	27.5	23
BWI 3-6	0.75		52	50.5	47	46	44	40	37	35	30.5	26

BWI 4 Performance Curve



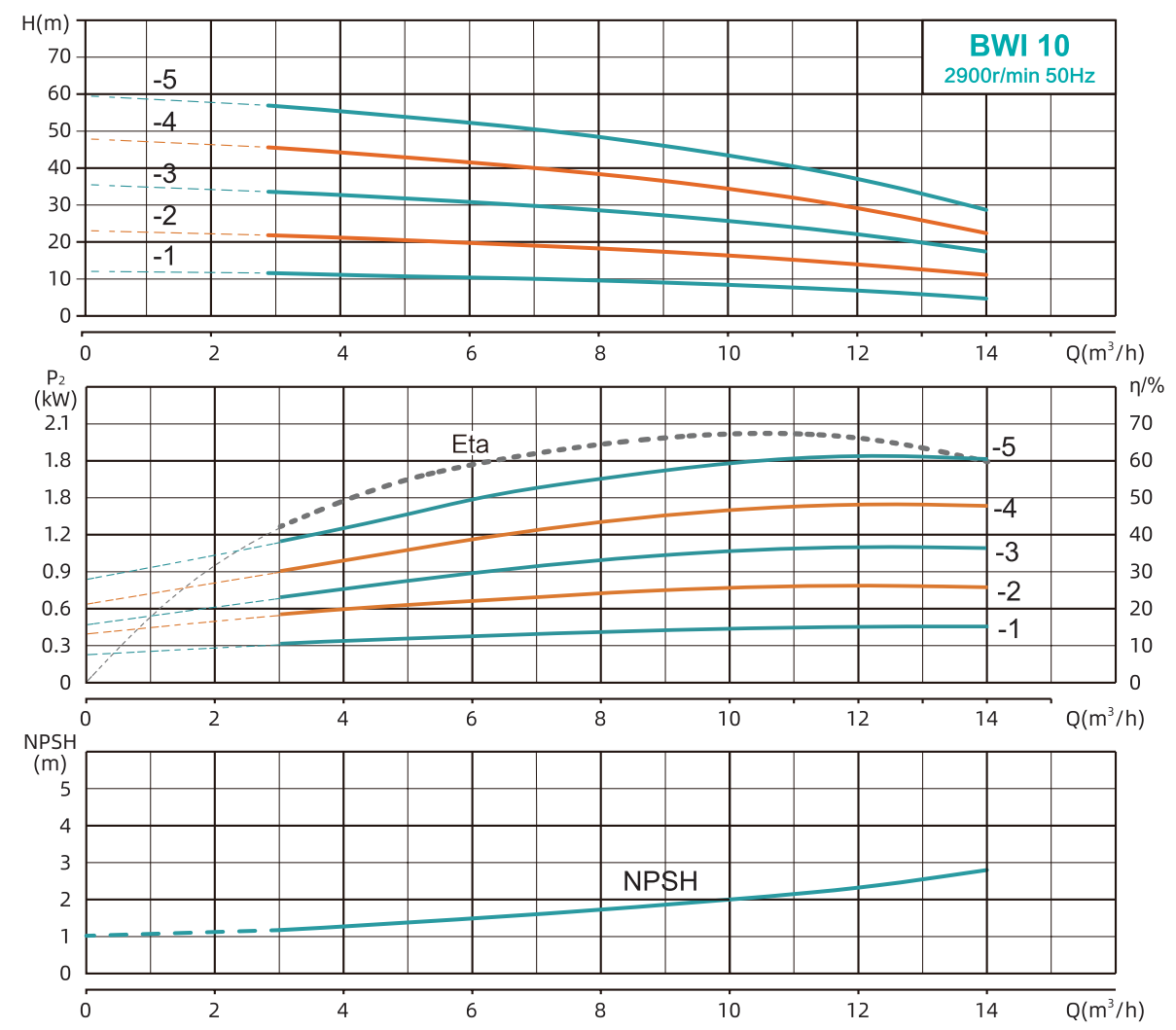
Model	Power	Q (m³/h)	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0
BWI 4-2	0.37	H(m)	18.5	18	17.5	17	16	15.5	15	13.5	13	11	10
BWI 4-3	0.55		29	28.5	28	27	26.5	25.5	25	23	22	20	18
BWI 4-4	0.75		38	37	36	34	33.5	32	30	28	27	24	20
BWI 4-5	1.0		47	46	45	44	42.5	41	40	36	35	32	27
BWI 4-6	1.3		56.5	55	54	53	52.5	51	49	45	44	42	36

BWI 5 Performance Curve



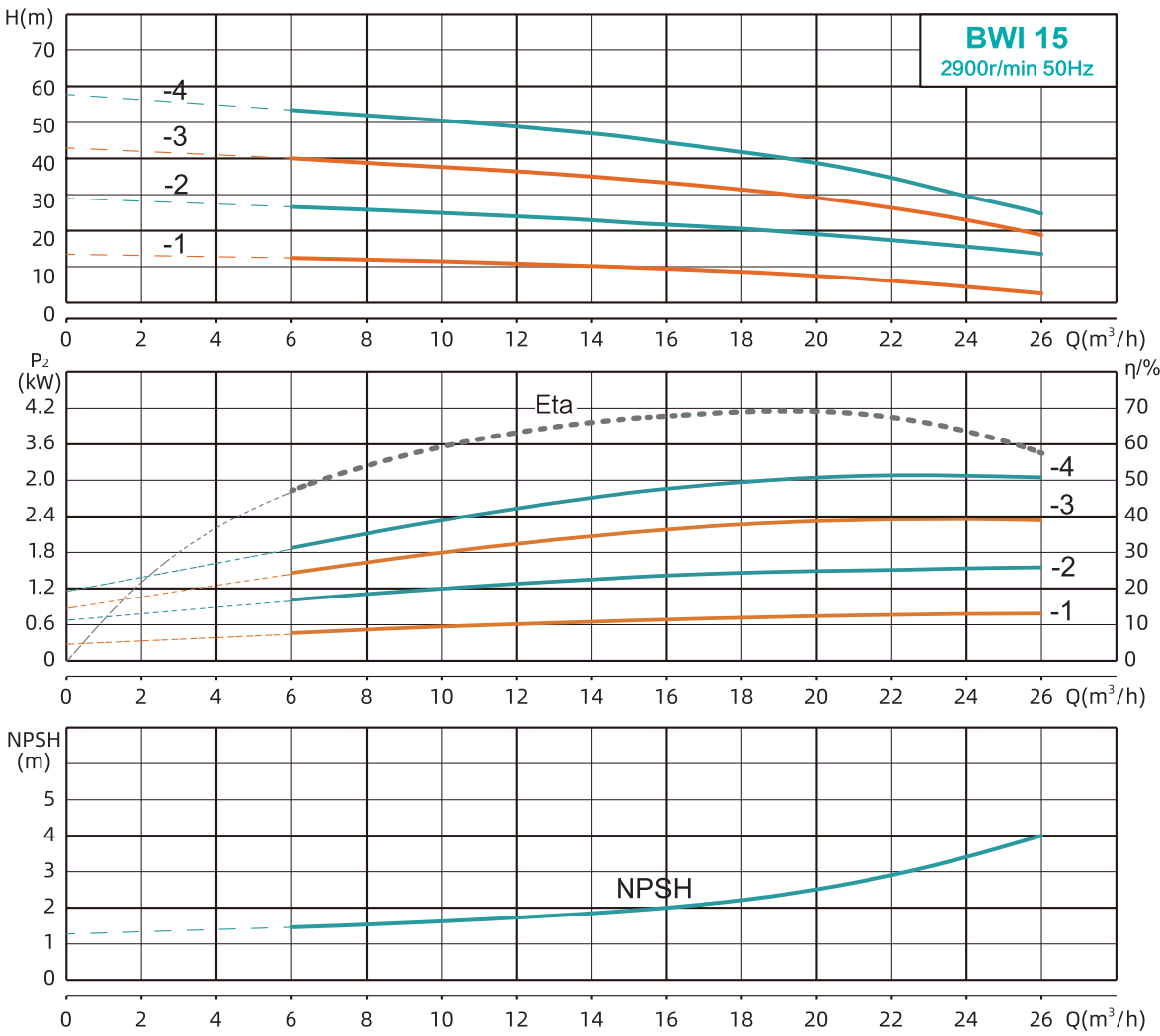
Model	Power	Q (m³/h)	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0
BWI 5-2	0.37	H(m)	18.5	18	17.5	17	16	15.5	15	13.5	13	11	10
BWI 5-3	0.55		29	28.5	28	27	26.5	25.5	25	23	22	20	18
BWI 5-4	0.75		38	37	36	34	33.5	32	30	28	27	24	20
BWI 5-5	1.0		47	46	45	44	42.5	41	40	36	35	32	27
BWI 5-6	1.3		56.5	55	54	53	52.5	51	49	45	44	42	36

BWI 10 Performance Curve



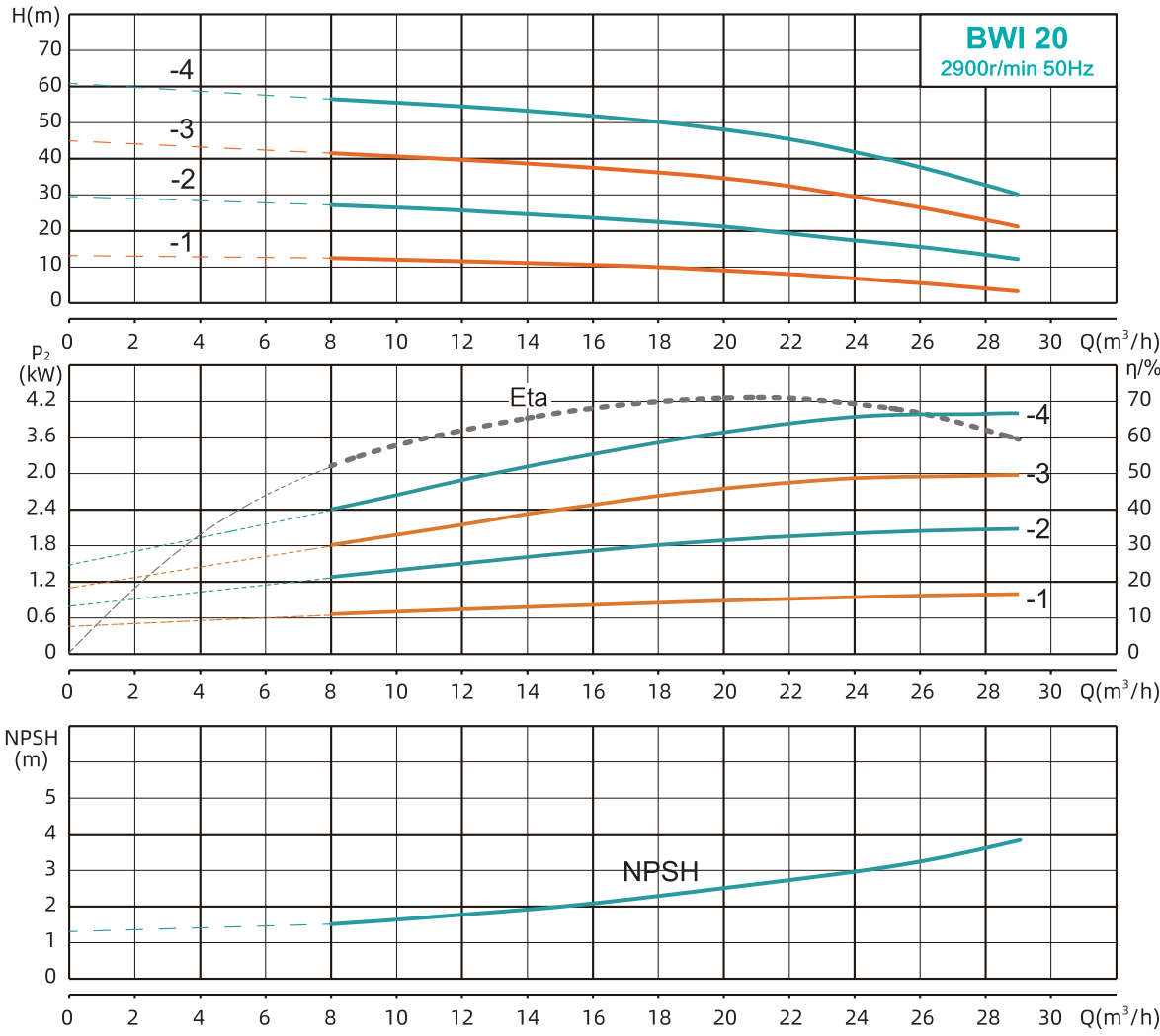
Model	Power	Q (m³/h)	0	5	6	8	10	12	14
BWI 10-1	0.55	H(m)	12	11	10.5	9.5	8	7	4.5
BWI 10-2	0.75		23	20.5	19.5	18	16.5	14	11
BWI 10-3	1.1		34.5	32	31	28.5	25.5	22	17.5
BWI 10-4	1.5		48	43	41.5	38	34	29	22.5
BWI 10-5	1.8		59.5	53.5	52	48.5	43	37.3	28.5

BWI 15 Performance Curve



Model	Power	Q (m³/h)	0	6	8	10	12	15	18	20	22	24	26
BWI 15-1	0.75	H(m)	13.5	12.5	12	11.5	10.8	10	8.5	7.5	6	4.5	3
BWI 15-2	1.8		29	26.5	25.8	24.8	24	22.5	20.5	18.7	16.8	15.4	14
BWI 15-3	2.2		43	40	38.5	37.5	36.5	34	31.4	29	26.4	23	19.5
BWI 15-4	3		57.5	53.3	51.5	50.5	48.5	46	42	38	34.5	29.3	24.5

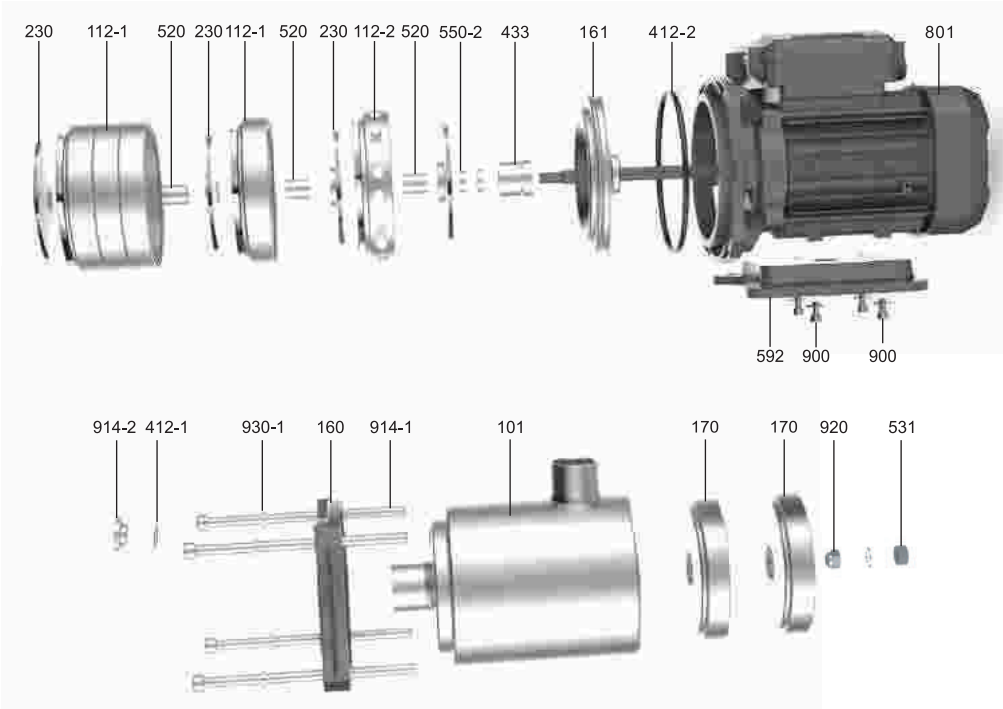
BWI 20 Performance Curve



Model	Power	Q (m³/h)	0	10	12	14	16	18	20	22	24	26	29
BWI 20-1	1.1	H(m)	13.5	12	11.5	11.1	10.5	10	9.5	8	6.8	5.5	3.2
BWI 20-2	2.2		30	27	26	25	25.5	24	23	20.3	18.5	18	13
BWI 20-3	3		45	40.5	39.5	38.5	37.5	36.2	35	32.4	29.3	26.3	21
BWI 20-4	4		60.5	55.5	54.5	53.2	51.8	50	47	45.2	42	37.3	30

Components

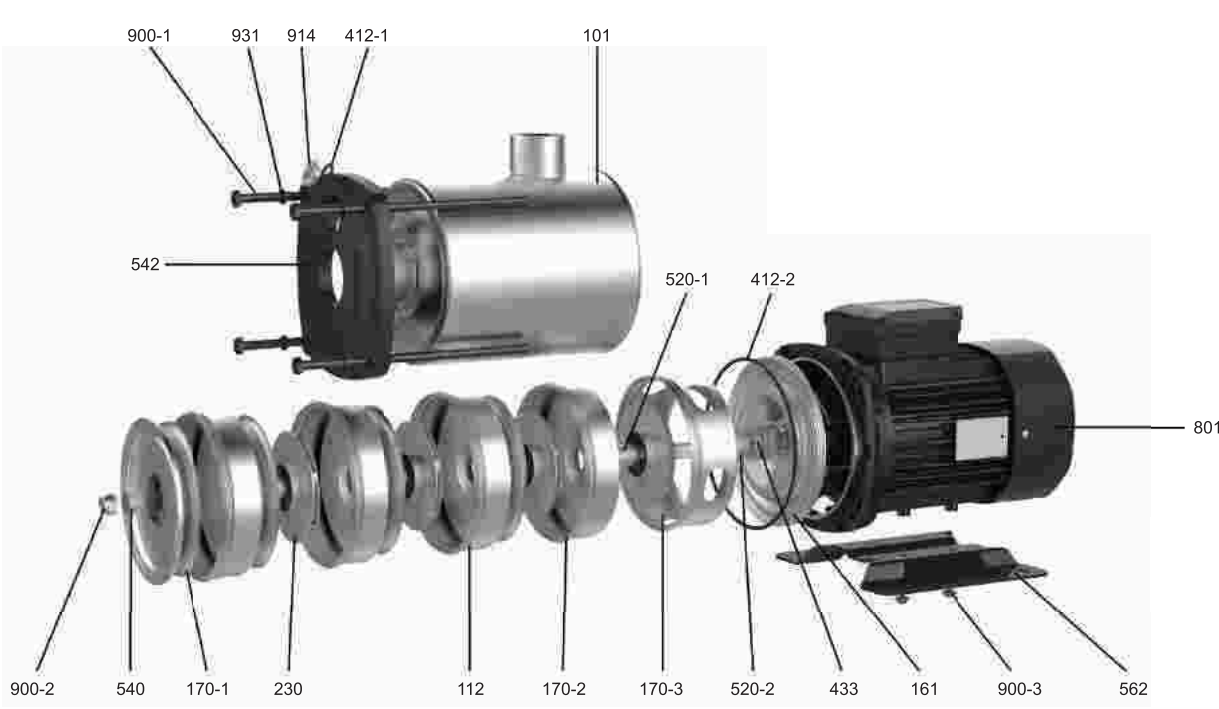
BWI 1/2/3/4/5



No.	Component	No.	Component
101	Pressure cylinder	520	Oblong sleeve
112-1	Chamber	531	Bushing
112-2	Outlet chamber	550-2	Adjusting washer
160	Platen	592	Base plate
161	COVER AS-FRONT	801	Electric machinery
170	Inlet chamber	900	Hexagon flange bolt
230	Impeller	914-1	Hexagon socket head cap screw
412-1	O-ring	914-2	Hexagon socket plug
412-2	O-ring	920	Non-metallic insert hex lock nut
433	Shaft seal	930-1	Standard spring washer

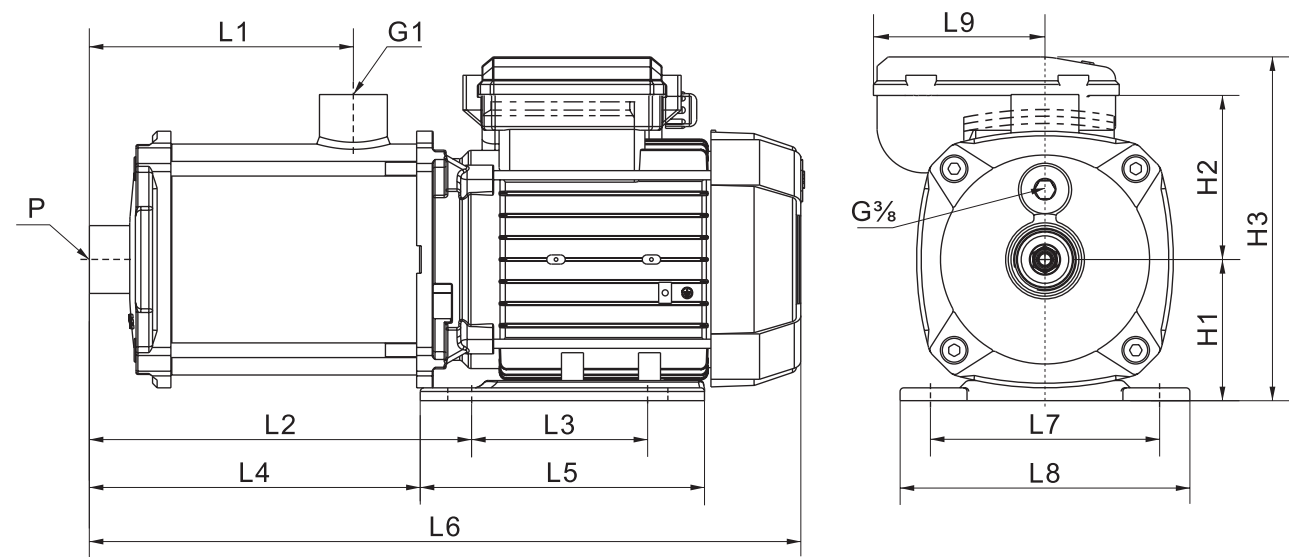
Components

BWI 10/15/20



No.	Component	No.	Component
101	Pressure Cylinder	520-4	Locking Shaft Sleeve
112-2	Guide Vane	540	Liner
161-2	Front Cover Assembly	542	Pressure Plate
170	Inlet Guide Vane	562	Base
171	Outlet Guide Vane	801	Motor
170-3	Outlet Guide Vane	900	Hexagonal Head Bolt
230	Impeller	900-1	1 Type I Non-metallic Fitting Locking Nut
412-2	O-ring Seal $\phi 160 \times 3.55$	900-3	Hexagonal Flange Face Bolt M5x10
412-1	O-ring Seal $\phi 12.5 \times 2.65$	914	Hexagon Plug
433	Mechanical Seal	931	Double Spring Self-locking Washer
520	Long Oval Bushing		

Packing Sizes & Weight



Model	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	L7 (mm)	L8 (mm)	L9 (mm)	H1 (mm)	H2 (mm)	H3(mm)		P	Weight (kg)	
												Single-phase	Three phase		Single-phase	Three phase
BWI 1-3	72	131	96	115	136	305	125	158	93.5	75	90	174	174	G1	6.5	6.5
BWI 1-4	90	149	96	133	136	323	125	158	93.5	75	90	174	174	G1	7.5	7
BWI 1-5	108	167	96	151	136	341	125	158	93.5	75	90	174	174	G1	8	8
BWI 1-6	144	203	96	187	136	377	125	158	93.5	75	90	174	174	G1	8	8.5

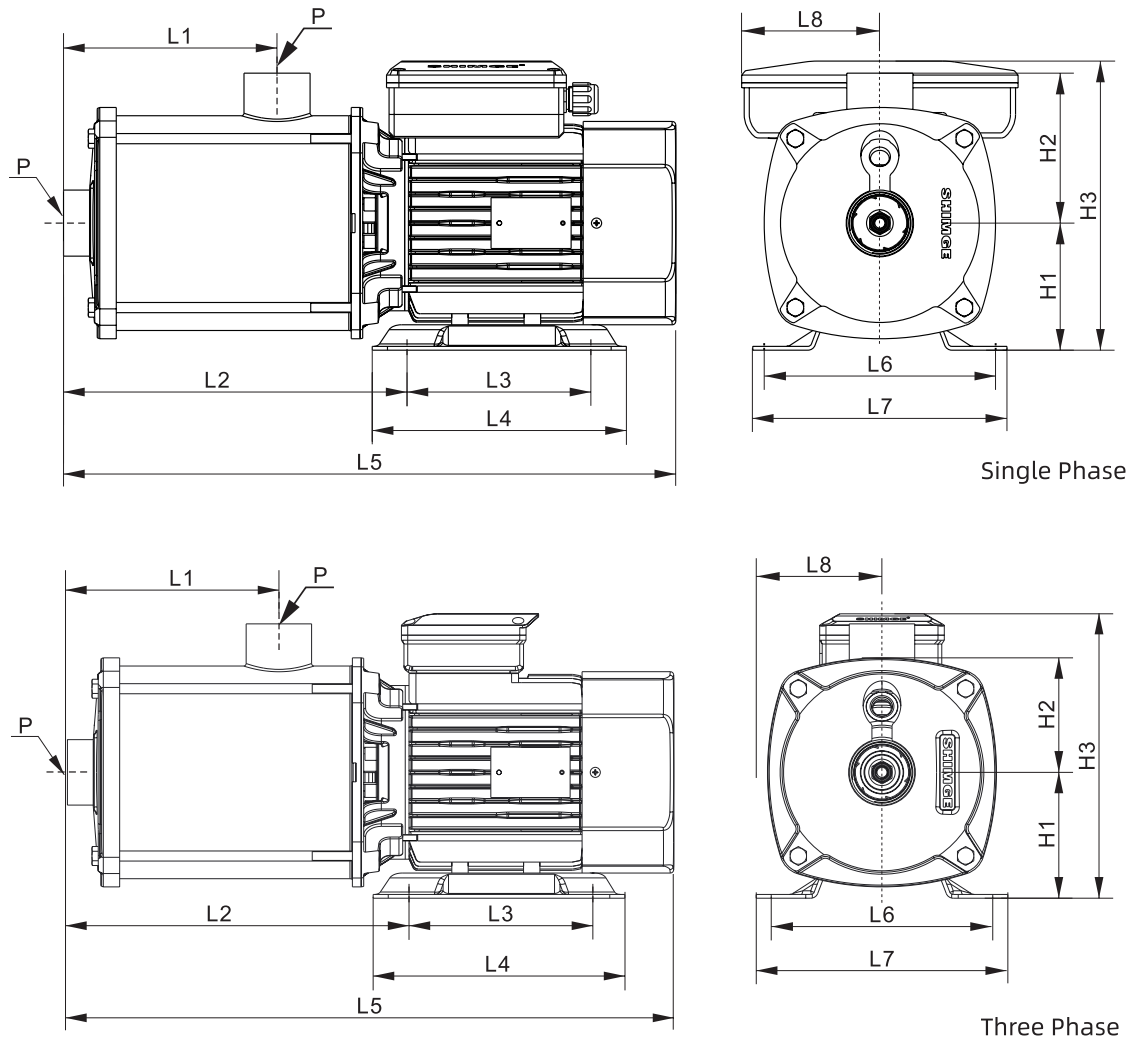
Model	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	L7 (mm)	L8 (mm)	L9 (mm)	H1 (mm)	H2 (mm)	H3(mm)		P	Weight (kg)	
												Single-phase	Three phase		Single-phase	Three phase
BWI 2-2	72	131	96	115	136	305	125	158	93.5	75	90	174	174	G1	6.5	6
BWI 2-3	72	131	96	115	136	305	125	158	93.5	75	90	174	174	G1	7	7
BWI 2-4	90	154	96	126	155	334	125	158	93.5	75	90	197	188	G1	9	9.5
BWI 2-5	108	172	96	144	155	352	125	158	93.5	75	90	197	188	G1	9.5	9.5
BWI 2-6	144	208	96	180	155	388	125	158	93.5	75	90	197	188	G1	11.5	11.5

Model	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	L7 (mm)	L8 (mm)	L9 (mm)	H1 (mm)	H2 (mm)	H3(mm)		P	Weight (kg)	
												Single-phase	Three phase		Single-phase	Three phase
BWI 3-2	72	131	96	115	136	305	125	158	93.5	75	90	174	174	G1	6.5	6.5
BWI 3-3	72	131	96	115	136	305	125	158	93.5	75	90	174	174	G1	7	7
BWI 3-4	90	154	96	126	155	334	125	158	93.5	75	90	197	188	G1	9	9.5
BWI 3-5	108	172	96	144	155	352	125	158	93.5	75	90	197	188	G1	9.5	9.5
BWI 3-6	144	208	96	180	155	388	125	158	93.5	75	90	197	188	G1	11	11

Model	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	L7 (mm)	L8 (mm)	L9 (mm)	H1 (mm)	H2 (mm)	H3(mm)		P	Weight (kg)	
												Single-phase	Three phase		Single-phase	Three phase
BWI 4-2	72	131	96	115	136	305	125	158	93.5	75	90	174	174	G11/4	7	6.5
BWI 4-3	72	136	96	108	155	316	125	158	93.5	75	90	197	188	G11/4	9	9
BWI 4-4	90	154	96	126	155	334	125	158	93.5	75	90	197	188	G11/4	10	10.5
BWI 4-5	108	207	125	179	175	396	140	178	102	90	90	238	215	G1 1/4	13	12.5
BWI 4-6	144	243	125	215	175	432	140	178	102	90	90	238	215	G11/4	15	14.5

Model	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	L7 (mm)	L8 (mm)	L9 (mm)	H1 (mm)	H2 (mm)	H3(mm)		P	Weight (kg)	
												Single-phase	Three phase		Single-phase	Three phase
BWI 5-2	72	131	96	115	136	305	125	158	93.5	75	90	174	174	G11/4	6.5	7
BWI 5-3	72	136	96	108	155	316	125	158	93.5	75	90	197	188	G1 1/4	9	9
BWI 5-4	90	154	96	126	155	334	125	158	93.5	75	90	197	188	G11/4	10.5	10.5
BWI 5-5	108	207	125	179	175	396	140	178	102	90	90	238	215	G11/4	12.5	12.5
BWI 5-6	144	243	125	215	175	432	140	178	102	90	90	238	215	G11/4	15.5	14.5

Packing Sizes & Weight



Model	L1 (mm)	L2 (mm)		L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	L7 (mm)	L8 (mm)		H1 (mm)	H2 (mm)	H3(mm)		P	Weight (kg)
		Single-phase	Three phase						Single-phase	Three phase			Single-phase	Three phase		
BWI10-1	78	169	169	96	140	356	125	158	109	91	100	118	218	218	G1½	12
BWI10-2	78	169	169	96	140	356	125	158	109	91	100	118	218	218	G1½	14
BWI10-3	108	217	217	140	200	418	125	158	109	100	100	118	227	226	G1½	15.5
BWI10-4	138	249	264	140	200	448	160	200	109	100	100	118	227	226	G1½	18.5
BWI10-5	168	281	281	140	200	478	160	200	109	100	100	118	227	226	G1½	25/ 21

Model	L1 (mm)	L2 (mm)		L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	L7 (mm)	L8 (mm)		H1 (mm)	H2 (mm)	H3(mm)		P	Weight (kg)
		Single-phase	Three phase						Single-phase	Three phase			Single-phase	Three phase		
BWI15-1	93	190	190	96	140	377	125	158	109	91	100	118	218	218	G2	13.5/13
BWI15-2	93	206	206	140	200	407	160	200	109	100	100	118	227	226	G2	18
BWI15-3	138	/	248	140	180	483	160	200	/	100	100	118	/	239	G2	23
BWI15-4	298	/	304	140	180	572	190	230	/	100	112	118	/	261	G2	28

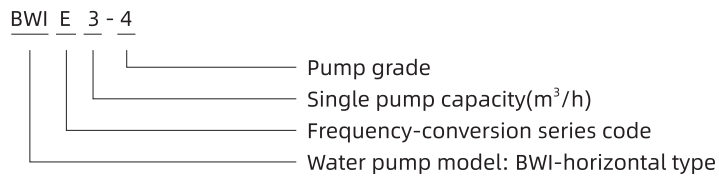
Model	L1 (mm)	L2 (mm)		L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	L7 (mm)	L8 (mm)		H1 (mm)	H2 (mm)	H3(mm)		P	Weight (kg)
		Single-phase	Three phase						Single-phase	Three phase			Single-phase	Three phase		
BWI20-1	93	206	207	96	140	407	125	158	109	100	100	118	227	226	G2	15
BWI20-2	93	200	200	140	200	438	160	200	/	100	100	118	/	226	G2	22
BWI20-3	138	/	254	140	180	527	190	230	/	100	112	118	/	261	G2	28
BWI20-4	298	/	288	140	180	572	190	230	/	100	112	118	/	261	G2	32

BWIE series fully integrated intelligent variable frequency pump



BWIE

Model Instruction



Overview Of The Product

BWIE series fully integrated intelligent variable frequency pump integrates the water pump, frequency converter controller, and pressure tank, enhancing water supply equipment. It adopts the innovative PIS style with a brand-new appearance that is dynamic, smooth, cohesive, and distinctive. This pump is equipped with artificial intelligence and automatic adjustment capabilities, meeting the demand for constant pressure variable frequency water supply. It ensures that the pressure in the water supply network and the overall system remains in the optimal energy-saving state.

Application Limits

- ⊙ Medium temperature: normal temperature type 0°C ~68°C , hot water type 0°C ~120°C
- ⊙ pH:5~9
- ⊙ Maximum operating pressure: 1.0MPa
- ⊙ Ambient temperature: -15°C ~40°C

Applications Fields

- ⊙ Air conditioning system
- ⊙ Filling machinery
- ⊙ Environmental engineering
- ⊙ Water supply and pressurization system
- ⊙ Fertilization and metering system
- ⊙ Cooling system
- ⊙ Industrial cleaning
- ⊙ Aquaculture
- ⊙ Water treatment system application
- ⊙ Supporting use of chiller

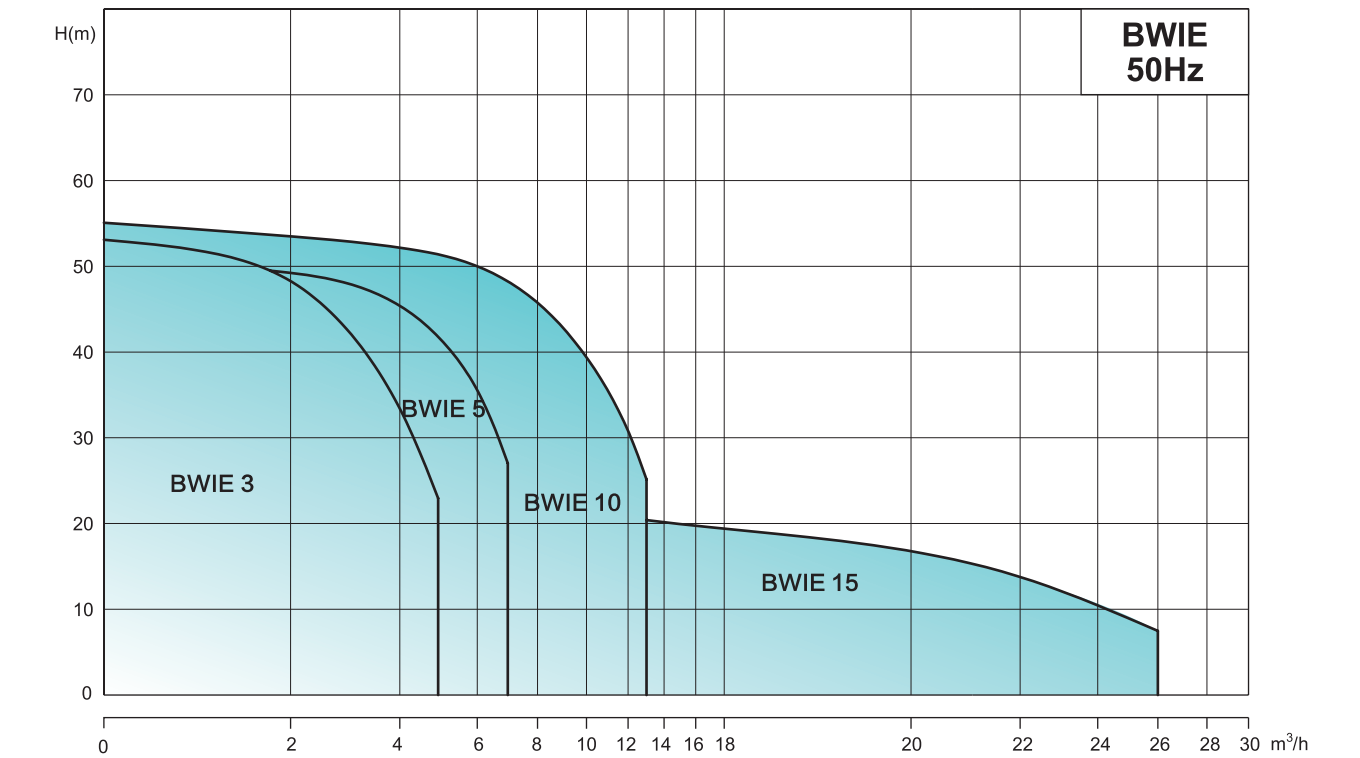
Certificate



Optional Available On Request

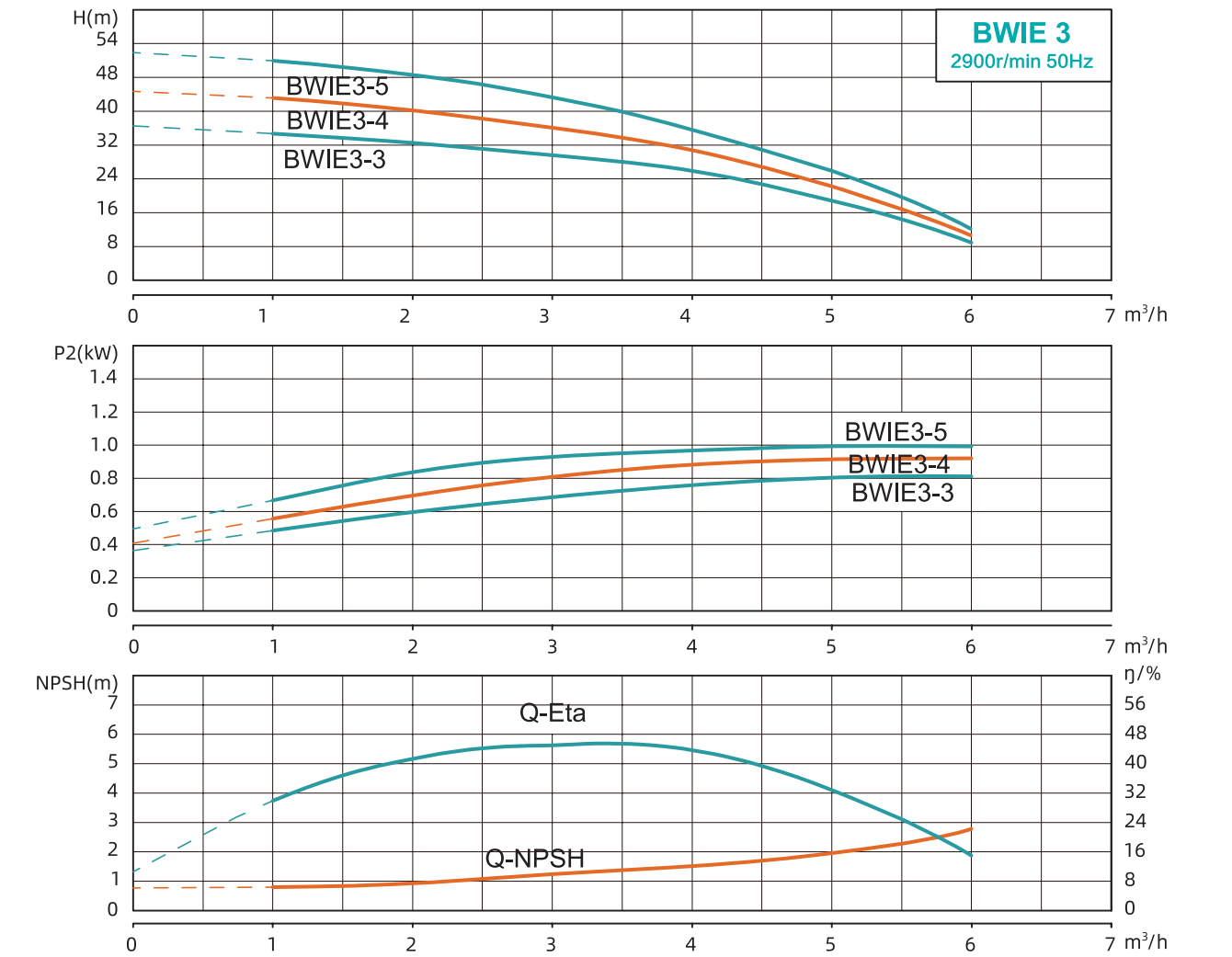
- ⊙ Protection class: IP55
- ⊙ Insulation class: F
- ⊙ Working method: S1
- ⊙ Voltage level: 220V/50Hz, 240V/50Hz

Performance Range



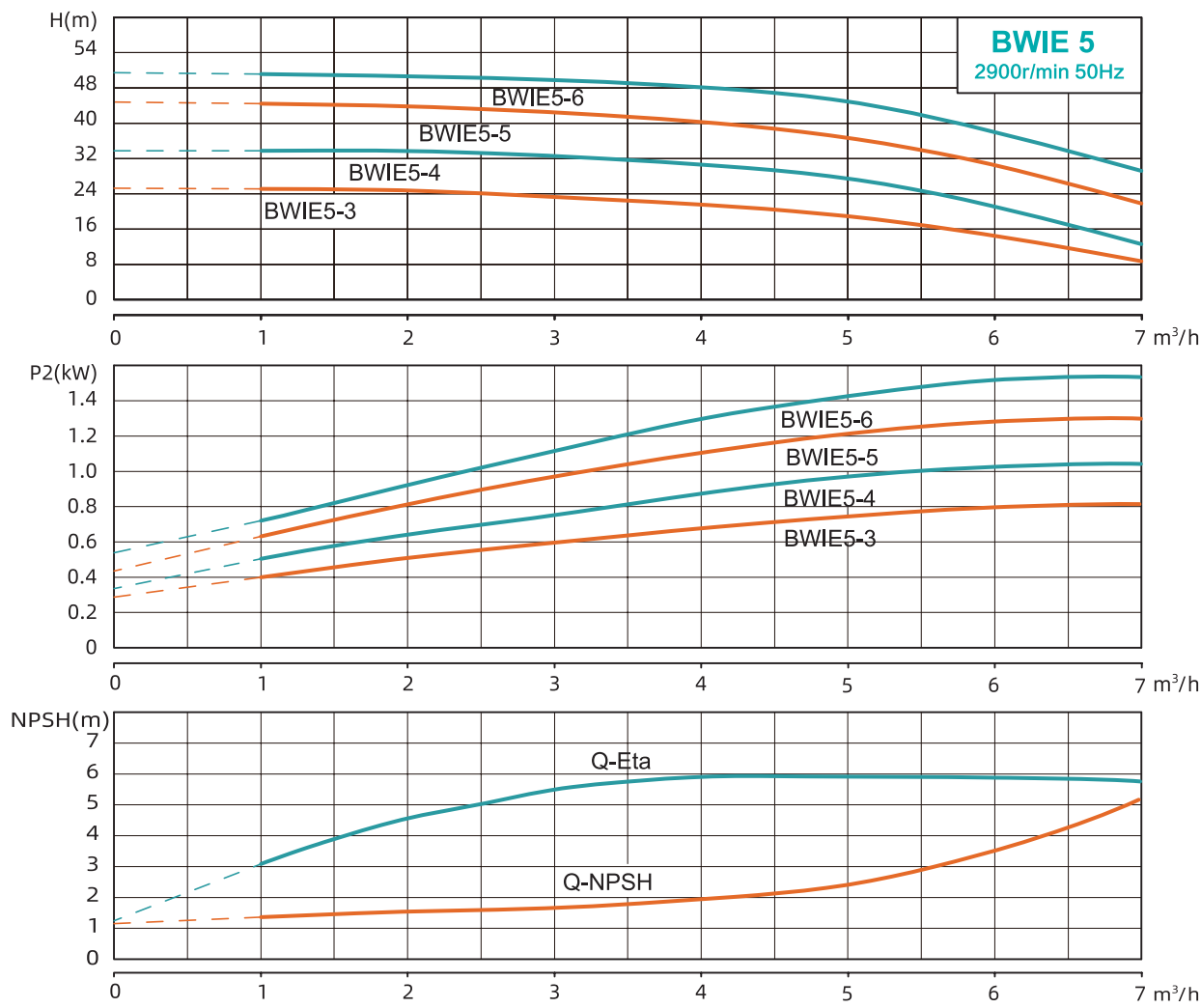
Model	Rated Voltage (V)	Rotation Speed (r/min)	Power (kW)	Rated Head (m)	Head Range (m)	Max. Head (m)	Rated Flow (m³/h)	Max. Flow (m³/h)	Packing Dim. (L*W*H) (mm)	N.W (kg)	Inlet-Outlet
BWIE3-4	220	2900	0.55	28	32-17	35	3	6	470x230x560	13	G1-G1
BWIE3-5	220		0.55	35	41-21	43	3	6	470x230x560	13.5	G1-G1
BWIE3-6	220		0.75	42	48-24	53	3	6	590x230x560	15	G1-G1
BWIE5-3	220		0.55	18.5	24-15	26	5	7.5	470x230x560	12.5	G1 ¹ / ₄ -G1
BWIE5-4	220		0.75	26	33-20	34	5	7.5	470x230x560	14	G1 ¹ / ₄ -G1
BWIE5-5	220		1.1	35	43-26	44.5	5	8	510x260x620	18	G1 ¹ / ₄ -G1
BWIE5-6	220		1.3	35	48-33	51	5	8.2	560x260x620	20	G1 ¹ / ₄ -G1
BWIE10-2	220		0.75	12.5	18-10	21	10	13.5	510x260x620	16	G1 ¹ / ₂ -G1 ¹ / ₂
BWIE10-3	220		1.1	21	30-17	34	10	14	510x260x620	21	G1 ¹ / ₂ -G1 ¹ / ₂
BWIE10-4	220		1.5	30	40-22	45	10	14	560x260x620	23	G1 ¹ / ₂ -G1 ¹ / ₂
BWIE10-5	220		1.8	39	51-28	57	10	14	560x260x620	25	G1 ¹ / ₂ -G1 ¹ / ₂
BWIE15-2	220		1.8	19.5	23-14	27	15	26	510x260x620	23	G2-G2

BWIE 3 Performance Curve



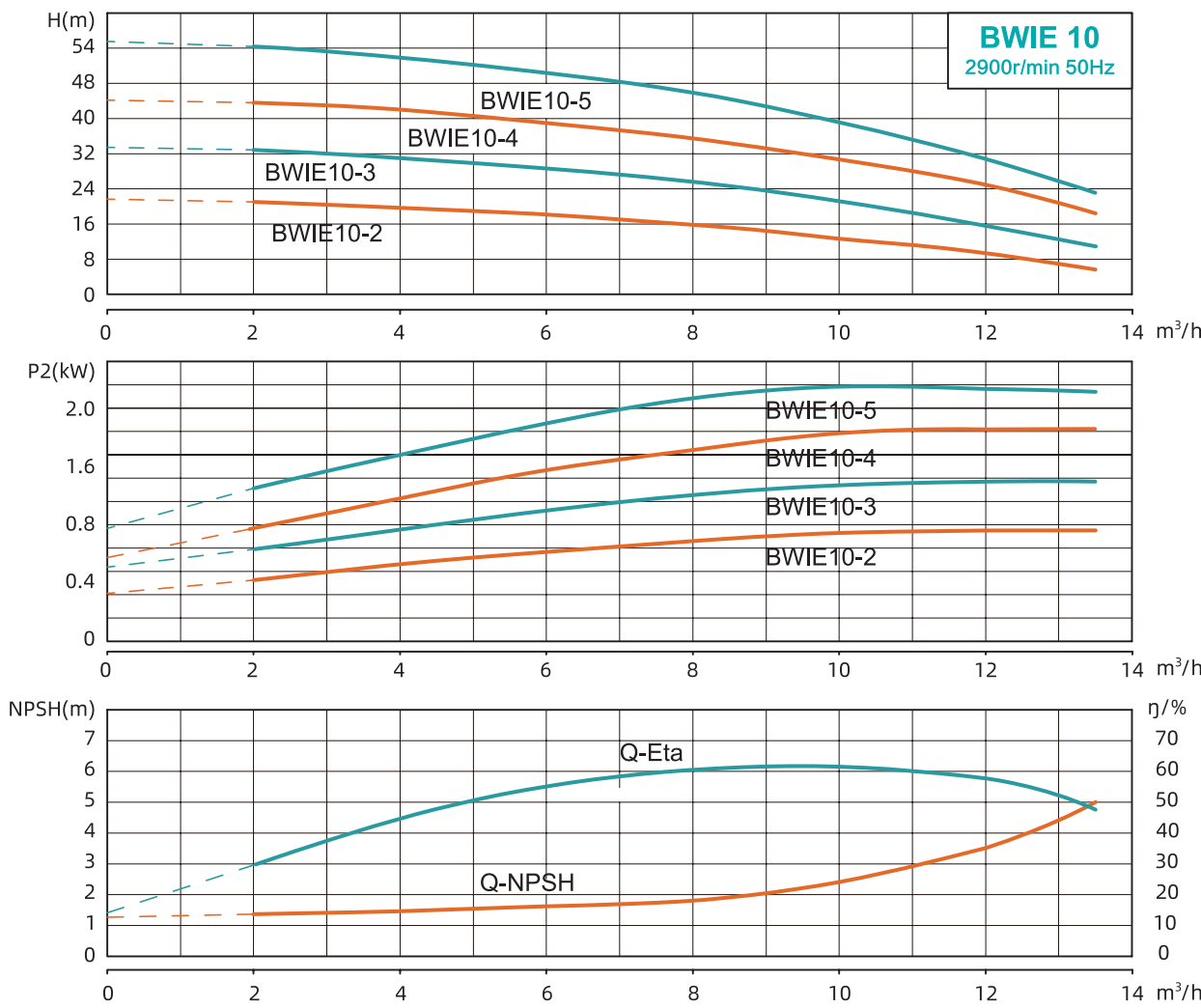
Model	Power	Q (m³/h)	0	1	2	3	4	5	6
BWIE3-4	0.55	H(m)	35.6	34.6	32	28.5	24.2	17.7	8.2
BWIE3-5	0.55		44	43.1	40.2	36.1	30.8	22.2	10.3
BWIE3-6	0.75		53.8	51.9	48.1	43.9	35	24.2	12.1

BWIE 5 Performance Curve



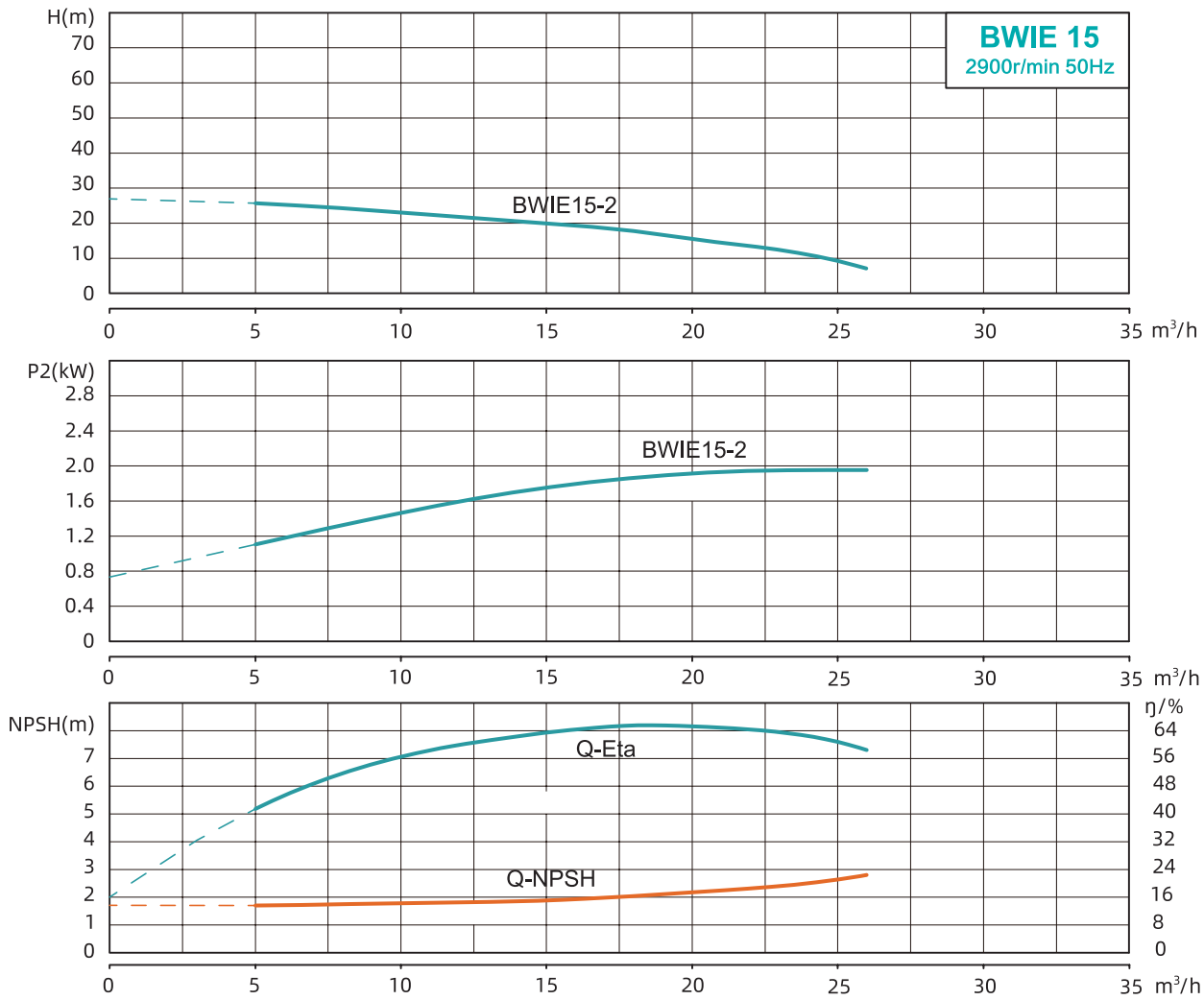
Model	Power	Q (m³/h)	0	1	2	3	4	5	6	7
BWIE5-3	0.55	H(m)	25.8	25.5	25.2	24	22.4	19.7	15.4	10.2
BWIE5-4	0.75		33.8	33.8	33.7	32.6	30.6	27.5	20	12.6
BWIE5-5	1.1		43.6	43.6	43.4	42.7	40.4	37	30.7	22.4
BWIE5-6	1.3		50.1	50.1	50	49.8	48.4	44.9	37.3	27.8

BWIE 10 Performance Curve



Model	Power	Q (m³/h)	0	2	4	6	8	10	12	13.5
BWIE10-2	0.75	H(m)	19.4	20.2	19.7	18.2	15.8	12.7	9.1	5.8
BWIE10-3	1.1		33.2	33.2	31.5	29.2	26.4	22.4	17.2	11
BWIE10-4	1.5		44.5	43.3	42.2	39.7	35.9	31.2	25.3	17.6
BWIE10-5	1.8		56.4	56.3	53.9	50.5	46.2	39.6	30.8	20.6

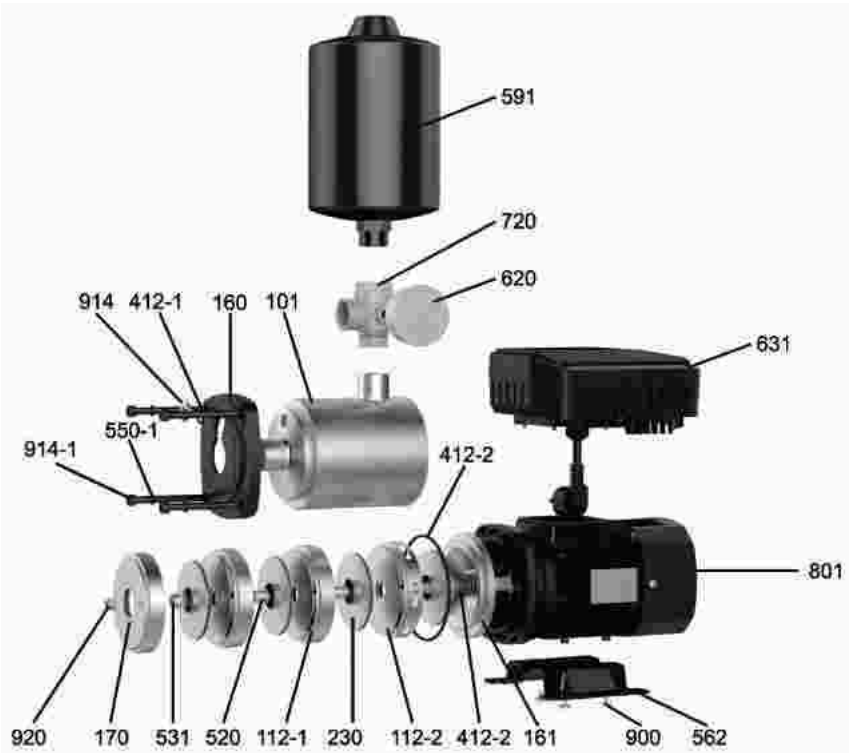
BWIE 5 Performance Curve



Model	Power	Q (m³/h)	0	5	10	15	18	20	24	26
BWIE15-2	1.8	H(m)	26.9	25.7	23	19.9	17.8	15.5	11	8

Components

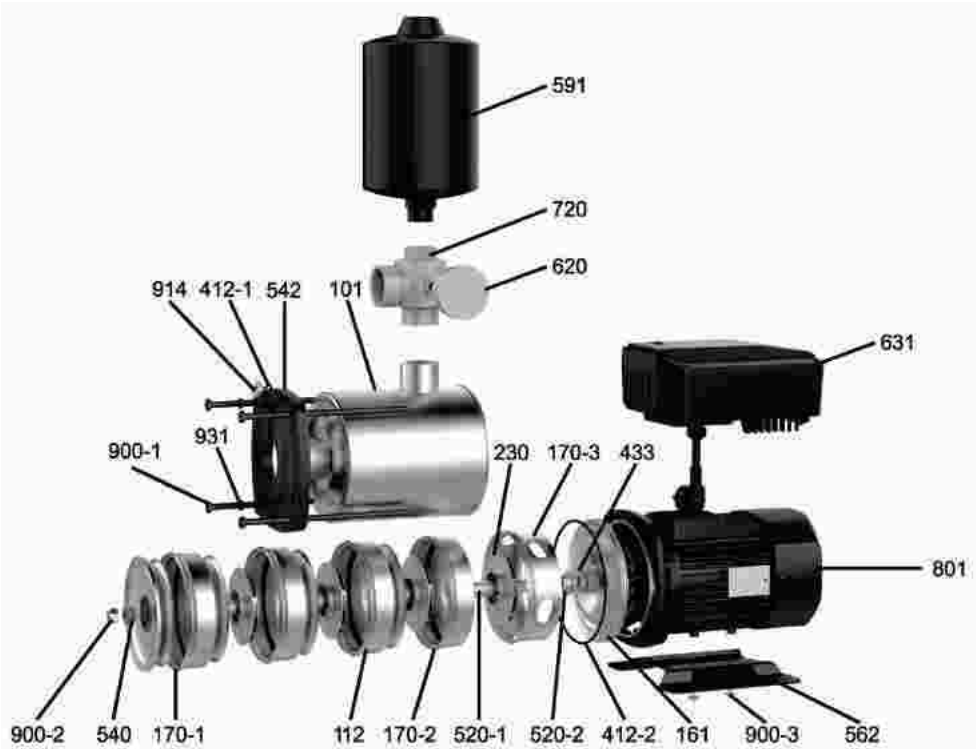
BWIE 3/5



No.	Component	No.	Component
101	Pressure Cylinder	550-1	Standard Spring Washer 8
112-1	Guide Vane	550-2	Adjusting Washer
112-2	Outlet Guide Vane	591	Pressure Tank
160	Pressure Plate	562	Base
161	Front Cover Assembly	620	Pressure Gauge
170	Inlet Guide Vane	631	Variable Frequency Drive (Inverter)
230	Impeller	720	Cross Fitting
412-1	O-ring Seal	801	Motor
412-2	O-ring Seal	900	Hexagon Flange Face Bolt
433	Mechanical Seal	914-1	Hexagon Socket Cap Screw
520	Long Bushing	914-2	Hexagon Socket Plug
531	Lining Bushing	920	Type I Non-metallic Insert Hexagon Lock Nut

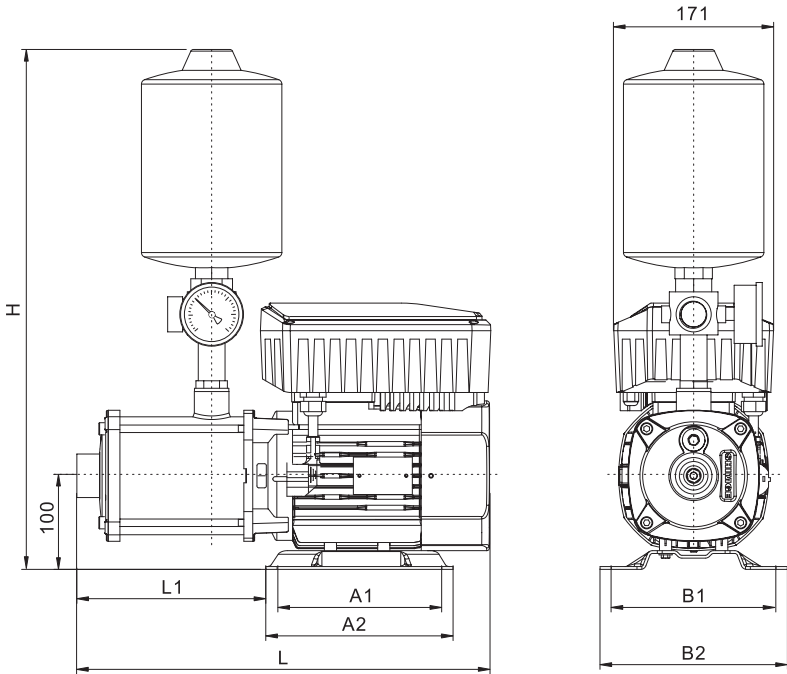
Components

BWIE 10/15



No.	Component	No.	Component
101	Pressure Cylinder	542	Platen
112-2	Outlet Guide Vane	562	Base
161-2	Front Cover Assembly	591	Pressure Tank
170	Inlet Deflector	620	Pressure Gauge
171	Final Stage Deflector	631	Frequency Changer
170-3	Outlet Deflector	720	Cross Fitting
230	Impeller	801	Motor
412-2	O-Ring	900	Hexagon Flange Face Bolt
412-1	O-Ring	900-1	I Prevailing Torque Type Hexagon Nuts
433	Shaft Seal	900-3	Hexagon Flange Bolt M5×10
520	Long Bushing	914	Hexagonal Socket Plug
520-4	Locking Shaft Sleeve	931	Double Spring Self-locking Washer
540	Bush		

Packing Sizes & Weight



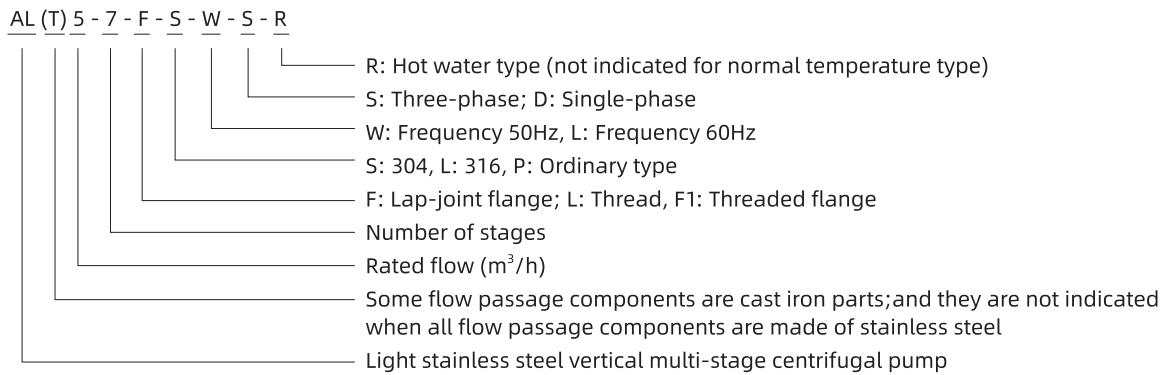
Model	L (mm)	L1 (mm)	B1 (mm)	B2 (mm)	A1 (mm)	A2 (mm)	H (mm)	P	G.W (Kg)
BWIE3-4	354	166.5	125	158	96	140	491	G1	13
BWIE3-5	372	184.5	125	158	96	140	491	G1	13.5
BWIE3-6	410	220.5	125	158	96	140	491	G1	15
BWIE5-3	369	148.5	125	158	96	140	491	G11/4	12.5
BWIE5-4	387	166.5	125	158	96	140	491	G11/4	14
BWIE5-5	405	196	160	200	140	200	556	G11/4	18
BWIE5-6	441	232	160	200	140	200	556	G11/4	20
BWIE10-2	388	172	125	158	96	140	544	G11/2	16
BWIE10-3	418	219	160	200	140	200	544	G11/2	21
BWIE10-4	448	249	160	200	140	200	544	G11/2	23
BWIE10-5	478	277	160	200	140	200	544	G11/2	25
BWIE15-2	407	203	160	200	140	200	544	G2	23

AL(T) Stainless steel multi-stage centrifugal pump



AL(T)

Model Instruction



Overview Of The Product

AL/ALT series product is a kind of new-generation high-efficiency non-self-priming vertical multi-stage centrifugal pump newly self-developed by reference to European standards. By adopting brand-new industrial design, the energy efficiency index MEI of the product reaches 0.7 and above; the product adopts a good hydraulic model and advanced manufacturing process, flow passage components of the pump body are formed by stamping and welding of high-quality 304 stainless steel, and the shaft seal adopts hard alloy and fluororubber mechanical seal. The product can deliver a variety of media from tap water to industrial liquid, and is applicable to different ranges of temperature, flow, and pressure; the whole machine is compact in structure, low in noise, and small in volume, with significant energy-saving effects.

Applications Fields

- ◎ Pressurized water supply: Water delivery for filtration in water plants, pressurization of main pipe networks, water supply for high-rise buildings, and fire water supply
- ◎ Water treatment system: Ultrafiltration system, reverse osmosis system, distillation system, separator, and swimming pool water treatment system
- ◎ Industrial pressurization: High-pressure washing system, cleaning system, and process water system
- ◎ Delivery of industrial liquids: Cooling and air conditioning system, boiler water supply and condensing system, and lathe supporting system
- ◎ Irrigation: Farmland irrigation, spray irrigation, and trickle irrigation

Service Conditions

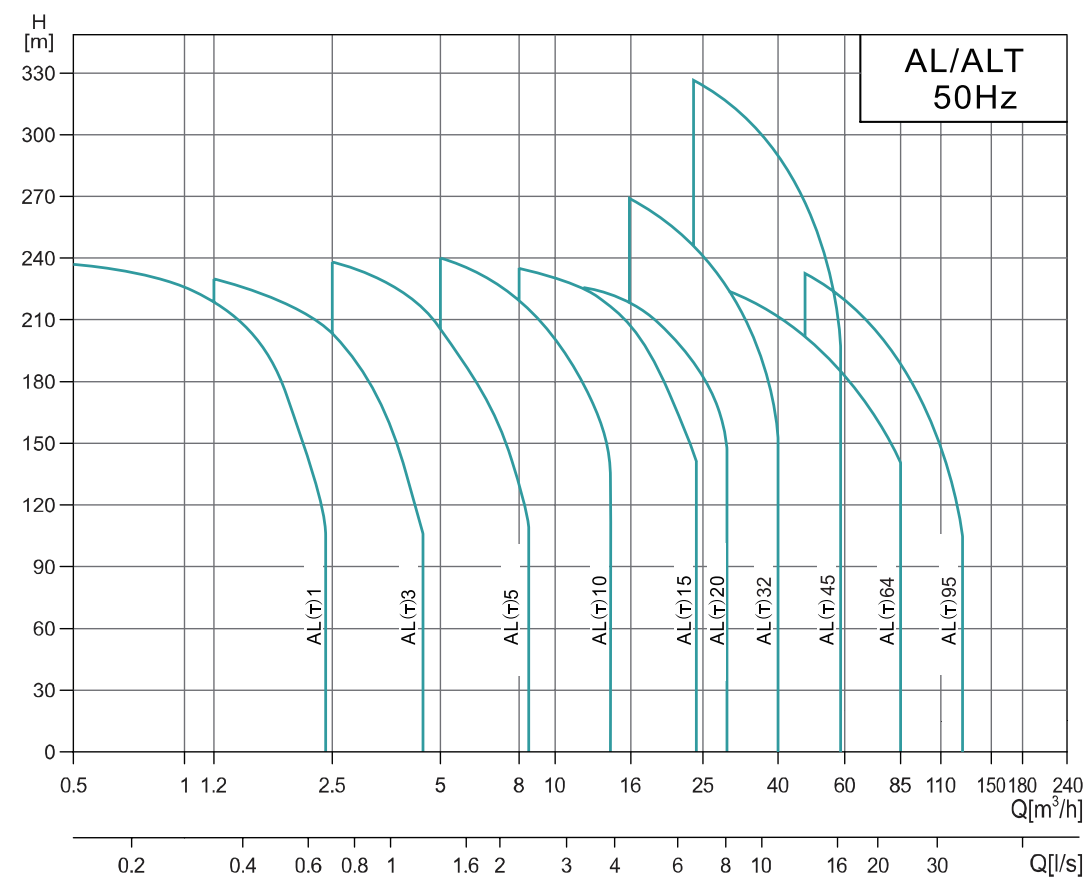
- ◎ Thin and clean liquid not containing solid particles of fiber
- ◎ The product can be applied to deliver the slightly corrosive medium
- ◎ Medium temperature: Normal temperature type: 0°C ~ +68°C , hot water type: 0°C ~ +120°C
- ◎ Ambient temperature: -15°C ~ +40°C
- ◎ Maximum ambient pressure: 1.0MPa
- ◎ When the density or viscosity of the delivered medium is greater than that of water, contact company personnel for selection

Selection of Motor

Fully-enclosed IE3 air-cooled standard motor NSK or SKF bearing

- ◎ Protection class: IP55
- ◎ Insulation class: F
- ◎ Working mode: S1
- ◎ Voltage level: 220V/50Hz, 380V/50Hz

AL(T) Performance Curve



Model	Rated Flow (m³/h)	Flow Range (m³/h)	Max. Pressure (bar)	Motor Power (kW)	Max. Efficiency (%)	Temperature Range (°C)	Flange Pressure	Flange	Pipe Thread
AL(T)1	1	0.5~2.4	24	0.37~2.2	48	Normal temperature type: 0°C ~68°C Hot water type: 0°C ~120°C	PN25	DN25	R ₂ 1¼
AL(T)3	3	1.2~4.4	23	0.37~3	58		PN25	DN25	R ₂ 1¼
AL(T)5	5	2.5~8.5	24	0.37~5.5	70		PN25	DN32	R ₂ 1¼
AL(T)10	10	5~14	24	0.75~11	72		PN25	DN40	Rc ₂
AL(T)15	15	8~24	24	1.1~15	73		PN25	DN50	Rc ₂
AL(T)20	20	10~29	23	1.1~18.5	73		PN25	DN50	Rc ₂
AL(T)32	32	16~40	25	1.5~30	78		PN25(40)	DN65	/
AL(T)45	45	22~58	25	3~45	79		PN25(40)	DN80	/
AL(T)64	64	30~85	25	4~45	80		PN16(25/40)	DN100	/
AL(T)95	95	48~124	25	5.5~55	81		PN16(25/40)	DN100	/

※ For detailed specifications, please refer to the AL(T) brochure.

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