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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

CATALOG

Stainless Steel Multi-Stage Centrifugal Pump

- BL/BLT 01 
- BW/BWJ 40 
- BW(J)E/BL(T)E 61 
- PL(D) 70 
- YS 75 
- BL(T)-A 96 
- BWI 108 



Company Profile

Established in 1984 and headquartered in Daxi Town, Wenling City, Zhejiang Province—a town with flourishing pump industry, Shimge Pump Industry (Zhejiang) Co., Ltd. is a limited liability company specialized in producing various kinds of pumps and control equipment. For over three decades, Shimge Pump Industry has been committed to technical researches, manufacturing and marketing of all kinds of pumps and control equipment, as well as providing first-class pumps and water treatment system solutions for the world.

Based on keen market insight, the company developed the "screw pump" in 1987, which filled the gap in the domestic market at that time. Due to its excellent quality, Shimge soon stood out in the industry, and started its journey as a legendary brand in China's pump industry. The company was once successfully listed in the A-share market in Shenzhen Stock Exchange on December 31, 2010 (stock code: 002532. According to the development strategy of the company, it was delisted in the form of asset reorganization and completed privatization in July 2020`). Currently, the company has 6 major brands, 12 product series with more than 2,000 specifications, and 8 holding subsidiaries, becoming a real leading brand in China's pump industry.



Shimge's production base in HangZhou, Zhejiang Province



Shimge's production base in SanChiku, Wenling, 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



High Quality Production

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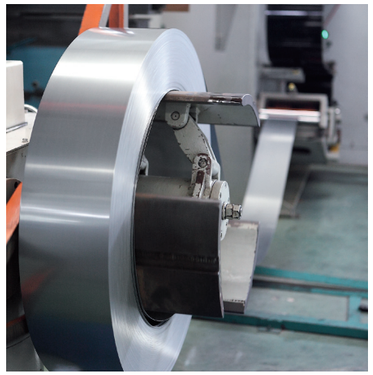
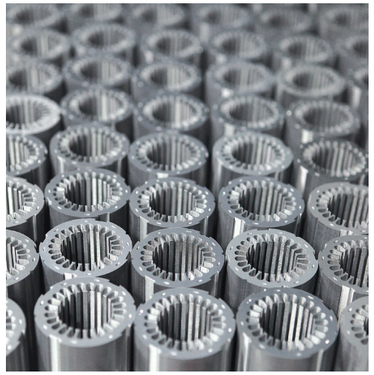
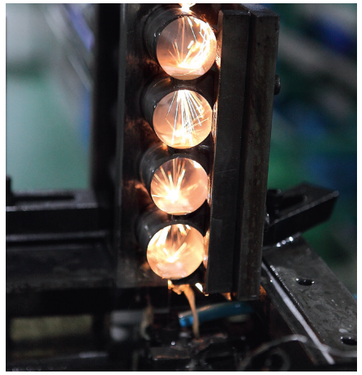
Shimge sticks on the comprehensive innovation on R&D and production process which commits to improve the production process and efficiency.







On one hand, we strengthen the professional skill of workers by sustaining training, and on the other, we put into the robot automatic production machine instead of manual work. By those ways, we have not only reduced the manufacturing cost, but also improved the product quality and stability.



Strict Quality Control

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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.





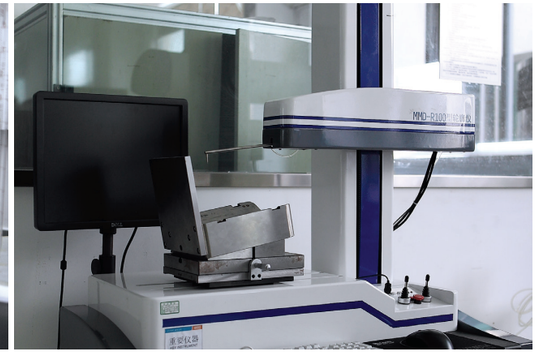












SHIMGE has equipped an industry-leading physicochemical testing center, and its delivery performance inspection platform has reached a precision of grade B (grade 1) in the evaluation conducted by an authoritative agency. In addition, its products have passed GS, CE and UL certification, and met the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

Vertical Multi-Stage Centrifugal Pumps



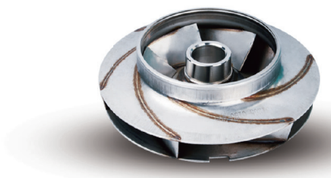
BL(T)



High-efficiency standard motor, Japan NSK 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.

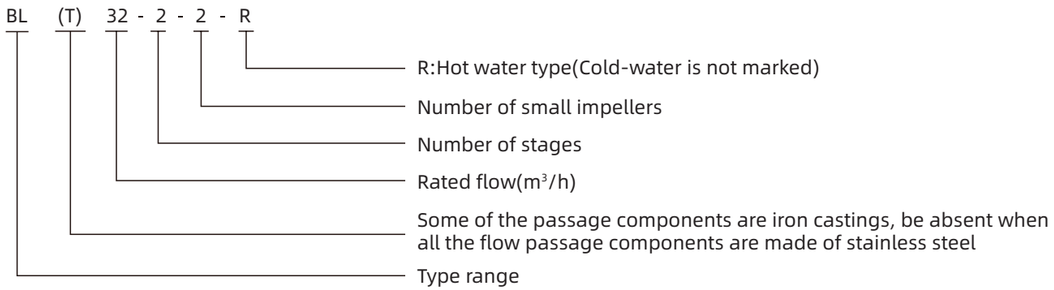


The pump core parts are designed to be multilevel interlocking, fastening nut locked, component system interlock assembly industry, to minimize the gap between the impeller per level, improve the efficiency of the impeller water conservancy, and ensure the stability, reliablity and efficiency of the 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℃ ~68℃ hot water type:0℃ ~120℃,
◎ Ambient temperature:+40℃ ,
◎ Max ambient pressure:1.0MPa,
◎ 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 buildins,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 sys tems	●	○
Separators	●	○
Swimming baths	●	●
Irrigation		
Field irrigation(flooding)	●	●
Sprinkler irrigation	●	●
Drip-feed irrigation	●	●

Certificate

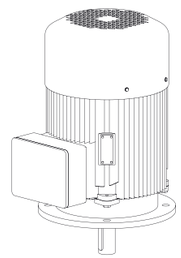
CE

Electric Motor

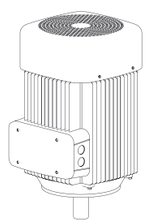
◎ Full-enclosed and ventilating two-pole standard motor
◎ Protection class: IP55
◎ Insulation class: F
◎ Standard voltage Single phase 220V-50Hz Three phase:220/380V-50Hz

Energy Efficiency Standard (IEC60034)

	Standard	Specific	
Power(kW)	Efficiency(2P, IE2)	Efficiency(2P,IE3)	motor structure
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	
11	89.4	91.2	IMV1
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	



IM V1



IM V18

Calculation Of minimum Inlet Pressure

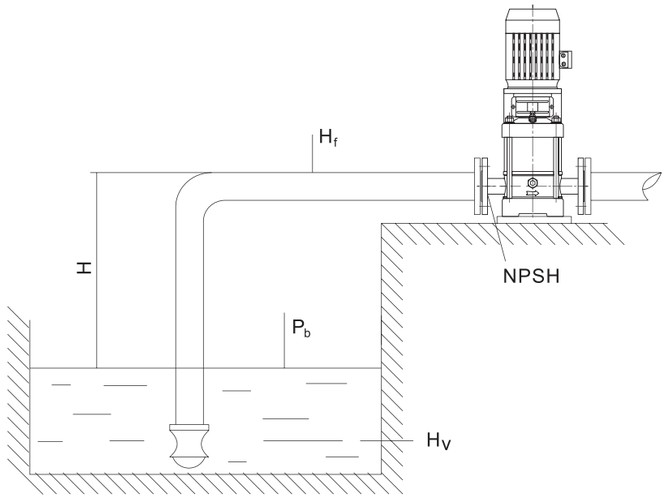
If the pressure in pump is lower than the vapour pressure of medium, cavitation will occur, which will affect the performance of pump. To avoid the cavitation and ensure the pump inlet has a minimum pressure, maximum suction head should be calculated as following:

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

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 figure4 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.**



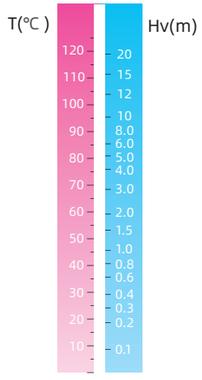


Fig. 2

Selection Of Pumps

- **Duty point of the pump.**
- **Dimensional data such as pressure loss as aresult 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.**
- **Pressure loss as a result of height differences.**
- **Friction loss in the pipework(Hf) (Refer to Fig.1) It may.**
- **Best efficiency at the estimated duty point.**
- **NPSH value.**
- **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.

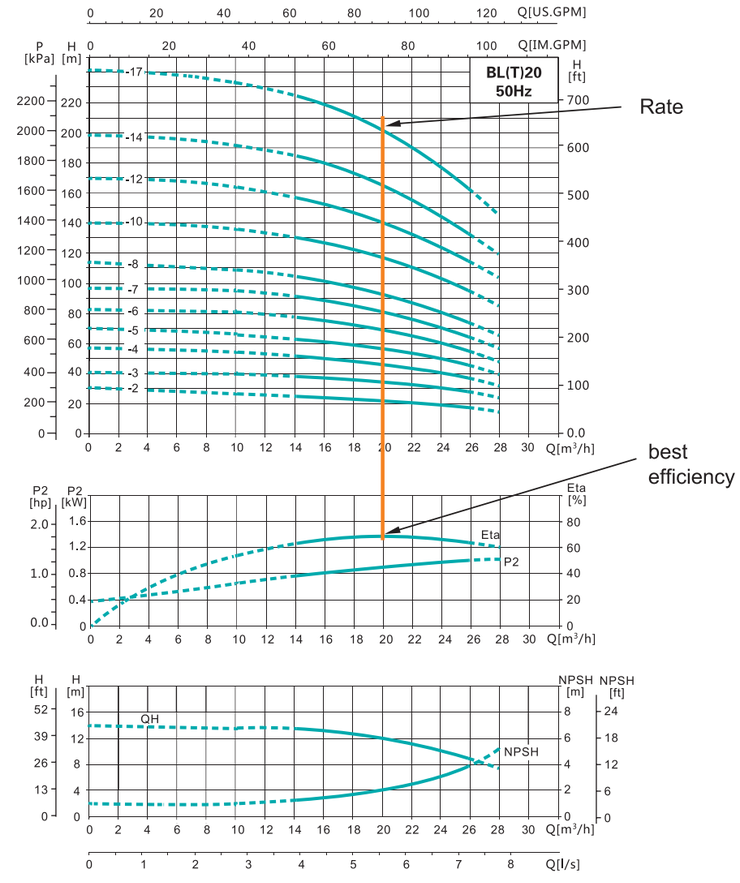
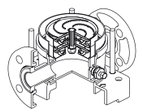


Fig. 3

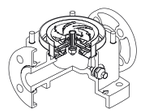
■ Pump material:

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

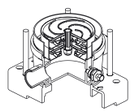
Loose round flange
Pipe thread
Oval flange
Round flange



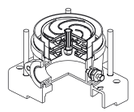
BL Standard:
Loose round flange



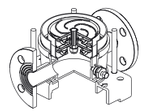
BLT Standard:
Loose round flange



Pipe thread
BL2、4

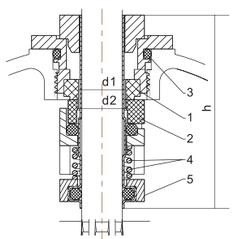


Oval flange
BL2、4

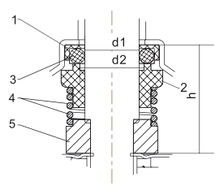


DIN flange

■ Commonly used mechanical seal configuration tables



NJK



NDA

Serial No.	Configuration	Configuration description	Applicable working conditions	Configuration situation
1	A:W(FC)	resin impregnated graphite dynamic ring A,hard alloy static ring W,fluororubber F,Structural parts stainless steel C	1. Normal working condition of cold water at 0°C~68°C, containing no particle, with oil allowed. 2. Normal working condition of hot water at 68° C~90° C, containing no particle, with oil allowed	Conventional
2	S:S(EC)	silicon carbide dynamic ring S, silicon carbide static ring S,EPDM E,Structural parts stainless steel C	1. Working condition of hot water at 90° C~120° C, containing a small number of particles but no oil.	Conventional
3	S:S(FC)	silicon carbide dynamic ring S, silicon carbide static ring S,fluororubber F,Structural parts stainless steel C	1. Acid medium PH=5-7. 2. Alkaline medium PH=5-7. 3. Working condition of hot water at 68° C~90° C, containing a small number of particles and oil. 4. Oil products.	Customized
4	W:W(EC)	hard alloy dynamic ring W, hard alloy static ring W, EPDM E,Structural parts stainless steel C	1. Frozen water below 0° C. 2 Alkaline medium with crystals. 3. Medium containing a lot of particles. 4. Working condition with the pressure higher than 2MPa.	Customized

Mechanical seal type	Pump model	d1	d2	d3
NJK	BL(T)2/4	12	12	55
	BL(T)8/12/16/20	16	16	57.5
	BL(T)32/45/64/90	22	22	72
NDA	BW(J)2/4	12.7	16	32
	BW(J)8/16	17.4	20	33.5

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	6

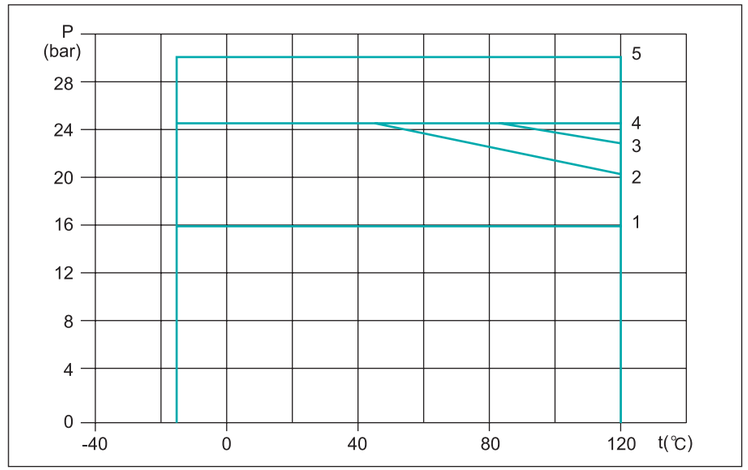
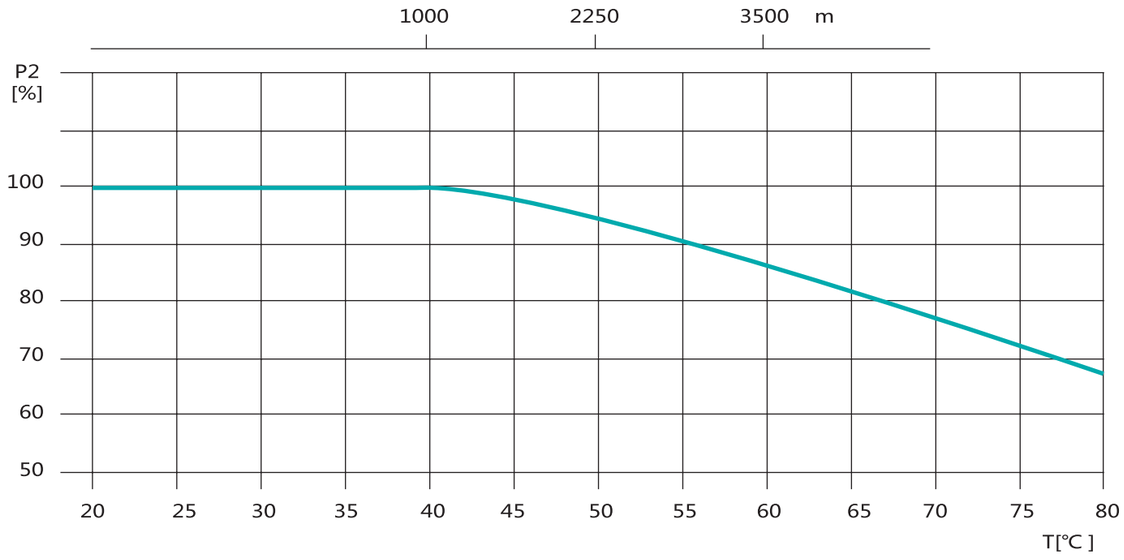


Fig. 4

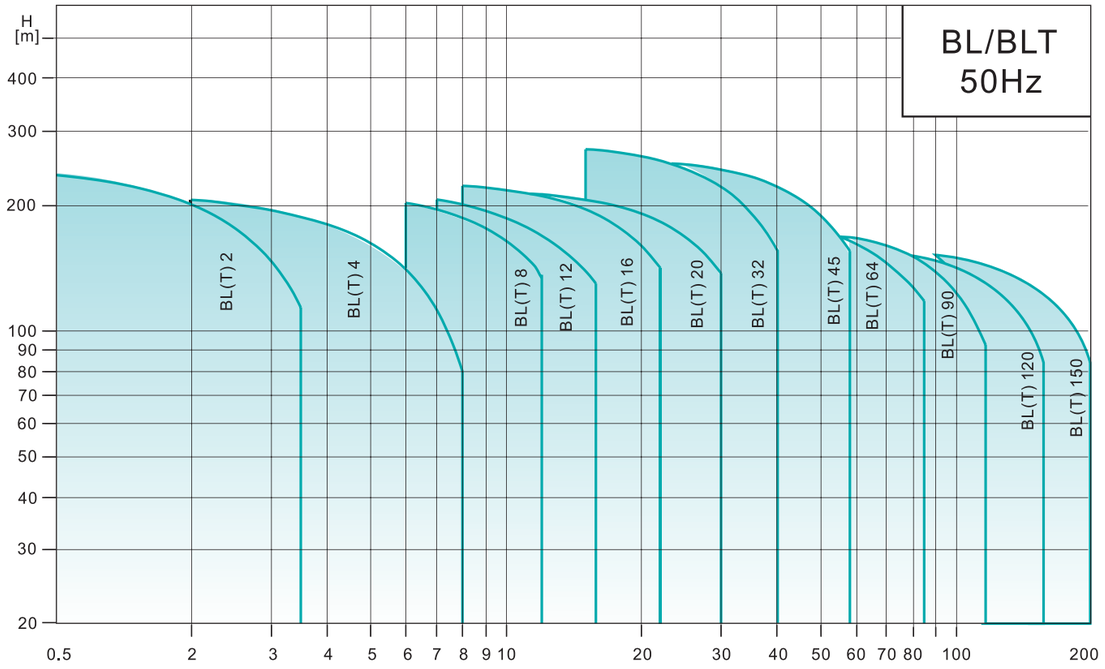
The limits of pressure and temperature are shown in the following fig.4,the pressure and temperature must be in the shown in the fig. 4.

Maximum Ambient Temperature

When the pump is operating in the place where ambient temperature is higher than 40℃ 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.

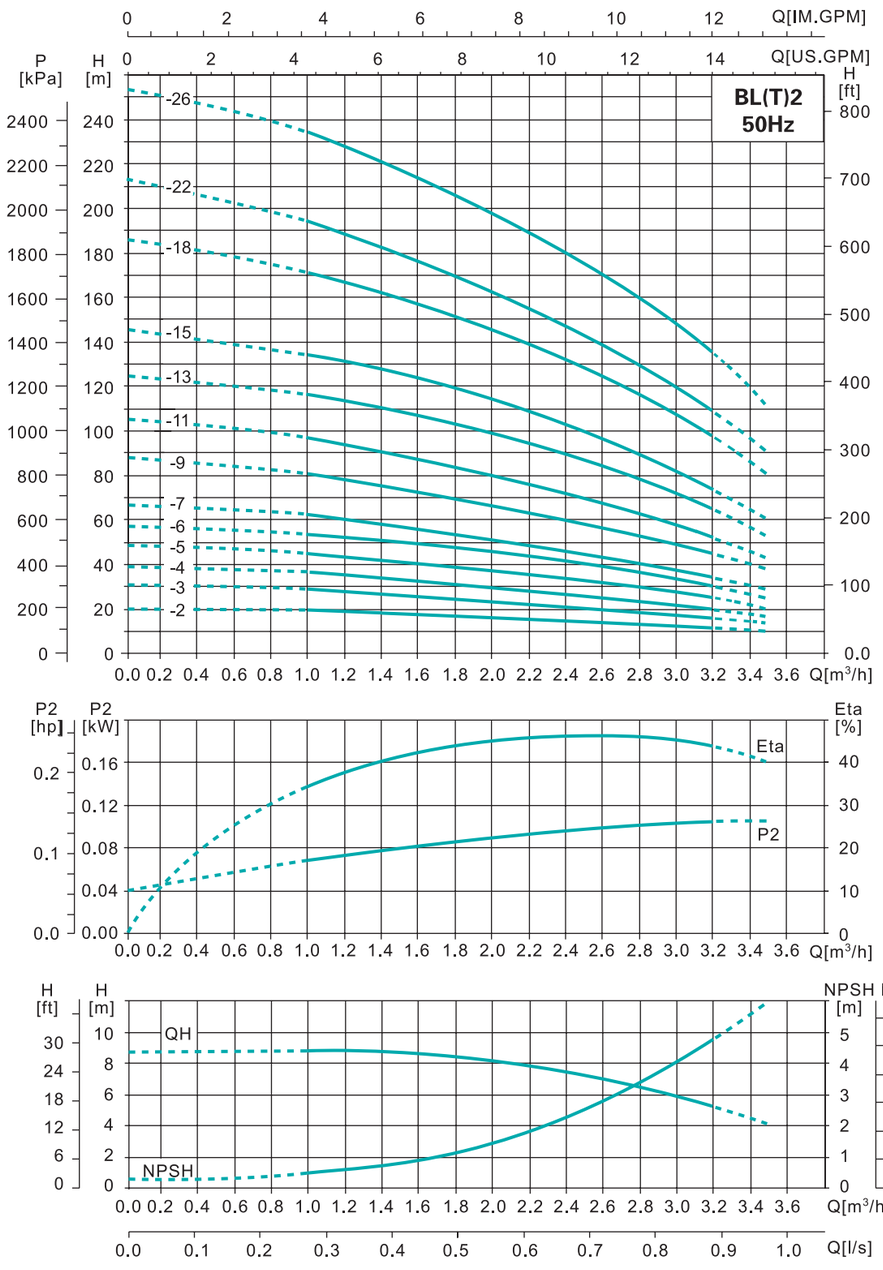


Performance Range



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
Rated Flow (m³/h)	2	4	8	12	16	20	32	45	64	90	120	150
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
Max.Pressure (bar)	23	21	21	22	22	23	27	28	22	16	17	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
Max.Efficiency (%)	45	57	62	63	66	67	70	74	75	76	75	76
DIN Flange	DN25	DN32	DN40	DN50	DN50	DN50	DN65	DN80	DN100	DN100	DN125	DN125
Pipe Thread	R_2 1¼	R ₂ 1¼	Rc2,on request									
Oval flange	G1orG11/4											
Tamperature Range	Standard Type0~+68℃ Hot Water Type 0~+120℃											

Performance Curve - BL(T)2



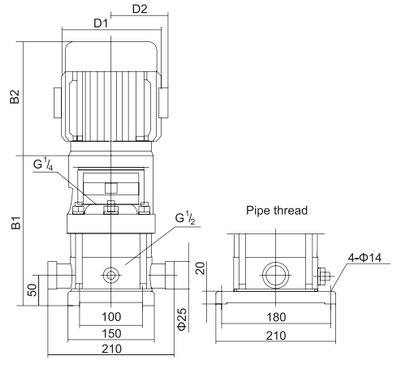
It is recommended to be used within lift range.

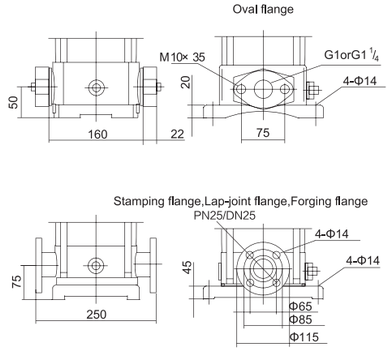
Performance Table

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	32mm (1 1/4')	H(m)	18	17	16	15	13	12	10	10~18
BL(T)2-3	0.37	0.5			27	26	24	22	20	18	15	15~27
BL(T)2-4	0.55	0.75			36	35	33	30	26	24	20	20~36
BL(T)2-5	0.55	0.75			45	43	40	37	33	30	24	24~45
BL(T)2-6	0.75	1			53	52	50	45	40	36	30	30~53
BL(T)2-7	0.75	1			63	61	57	52	47	41	35	35~63
BL(T)2-9	1.1	1.5			80	78	73	67	61	54	45	45~80
BL(T)2-11	1.1	1.5			98	95	89	82	73	64	54	54~98
BL(T)2-13	1.5	2			116	114	106	98	89	78	65	65~116
BL(T)2-15	1.5	2			134	130	123	112	100	90	73	73~134
BL(T)2-18	2.2	3			161	157	148	136	121	108	91	91~161
BL(T)2-22	2.2	3			197	192	180	165	148	130	110	110~197
BL(T)2-26	3	4			232	228	214	198	179	158	130	130~232

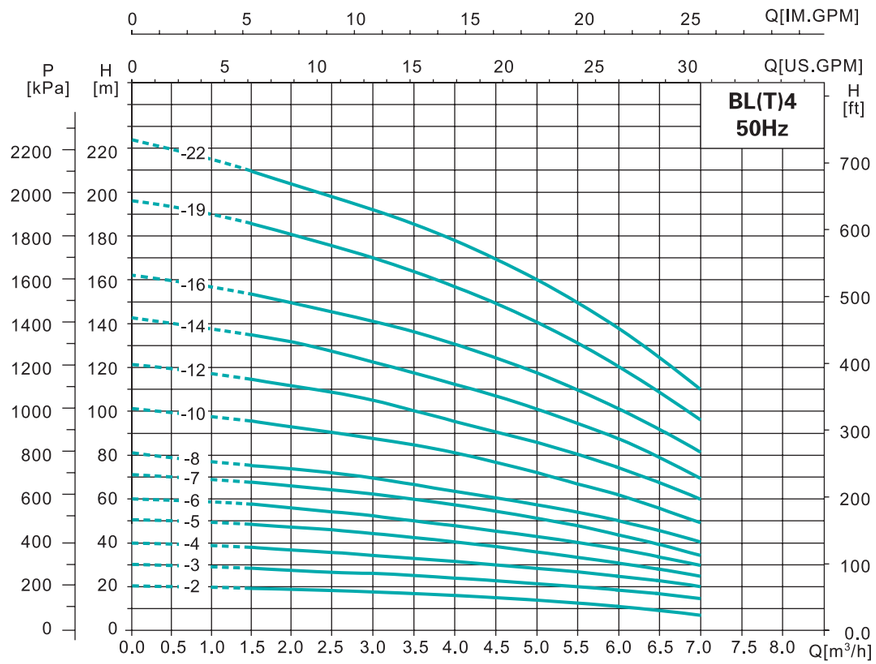
Dimensions

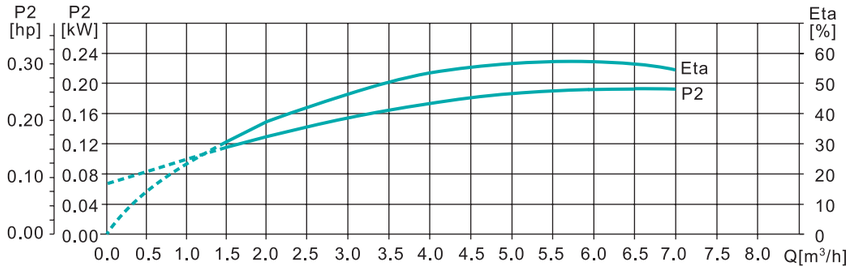
Model	Dim.(mm)					N.W.(kg)	
	B1	B2	B1+B2	D1	D2	BL	BLT
BL(T)2-2	278	220	498	135	86	21	26
BL(T)2-3	278	220	498	135	86	21	26
BL(T)2-4	296	220	516	135	86	23	28
BL(T)2-5	314	220	534	135	86	23	28
BL(T)2-6	340	255	595	148	96	27	31
BL(T)2-7	358	255	613	148	96	27	32
BL(T)2-9	394	255	649	148	96	30	34
BL(T)2-11	430	255	685	148	96	31	35
BL(T)2-13	479	300	779	166	115	34	39
BL(T)2-15	515	300	815	166	115	35	40
BL(T)2-18	569	300	869	166	115	39	44
BL(T)2-22	641	300	941	166	115	41	46
BL(T)2-26	722	325	1047	191	128	49	54

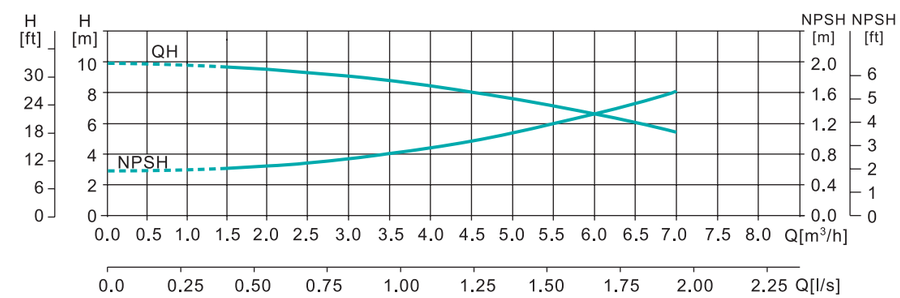




Performance Curve - BL(T) 4







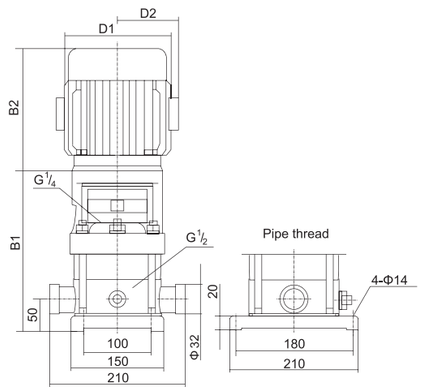
It is recommended to be used within lift range.

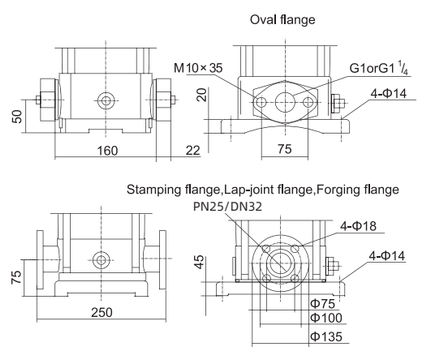
Performance Table

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	32mm (1 1/4')	H(m)	19	18	17	15	13	10	8	8~19
BL(T)4-3	0.55	0.75			28	27	26	24	20	18	13	13~28
BL(T)4-4	0.75	1			38	36	34	32	27	24	19	19~38
BL(T)4-5	1.1	1.5			47	45	43	40	34	31	23	23~47
BL(T)4-6	1.1	1.5			56	54	52	48	41	37	28	28~56
BL(T)4-7	1.5	2			66	63	61	56	48	43	33	33~66
BL(T)4-8	1.5	2			74	72	70	64	55	50	38	38~74
BL(T)4-10	2.2	3			96	90	87	81	71	62	48	48~96
BL(T)4-12	2.2	3			114	108	104	95	85	75	58	58~114
BL(T)4-14	3	4			136	126	122	112	101	89	68	68~136
BL(T)4-16	3	4			152	144	140	129	115	101	78	78~152
BL(T)4-19	4	5.5			183	171	168	153	137	122	93	93~183
BL(T)4-22	4	5.5			211	200	192	178	160	138	108	108~211

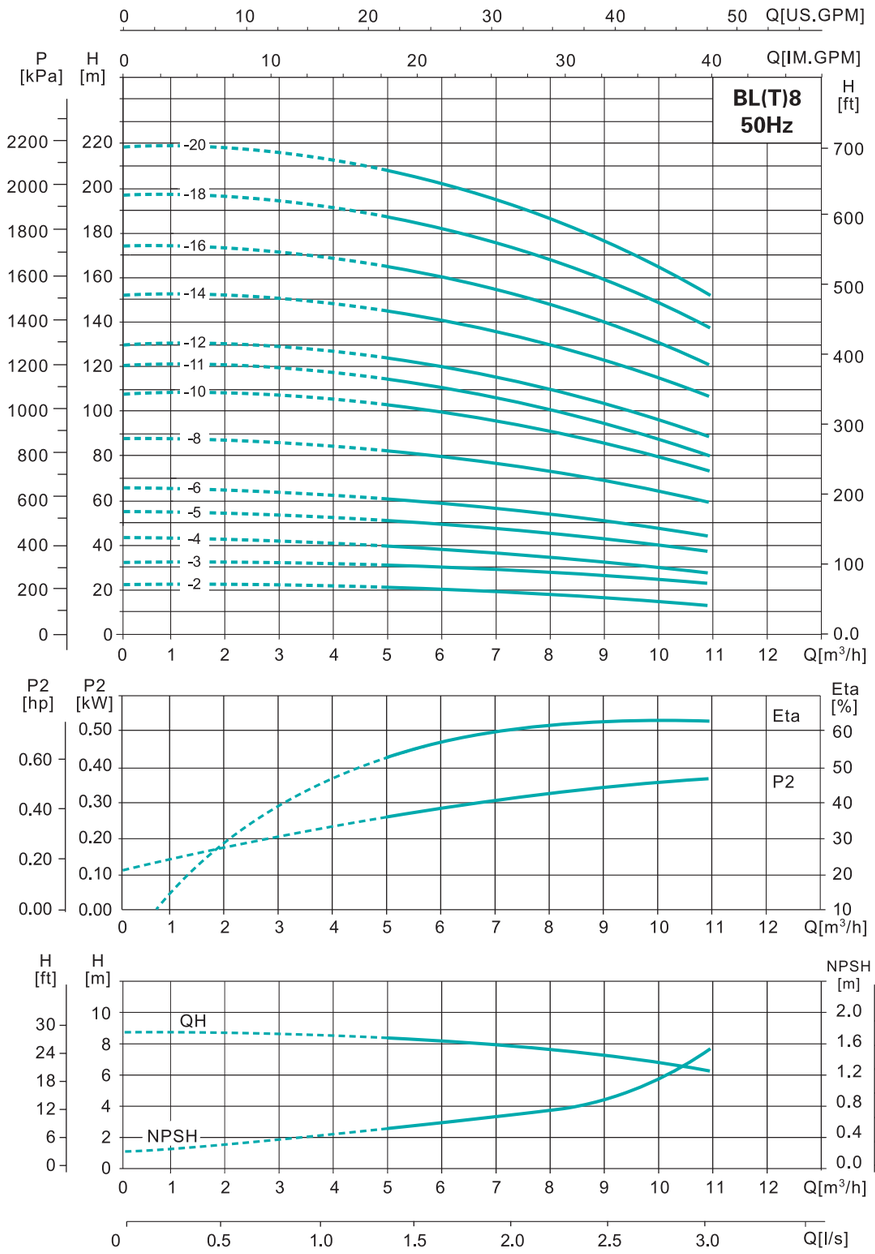
Dimensions

Model	Dim.(mm)					N.W.(kg)	
	B1	B2	B1+B2	D1	D2	BL	BLT
BL(T)4-2	278	220	498	135	86	21	26
BL(T)4-3	305	220	525	135	86	23	28
BL(T)4-4	340	255	595	148	96	27	32
BL(T)4-5	367	255	622	148	96	29	34
BL(T)4-6	394	255	649	148	96	29	34
BL(T)4-7	434	300	734	166	115	33	38
BL(T)4-8	461	300	761	166	115	33	39
BL(T)4-10	515	300	815	166	115	37	42
BL(T)4-12	569	300	869	166	115	38	44
BL(T)4-14	632	325	957	191	128	46	51
BL(T)4-16	686	325	1011	191	128	47	52
BL(T)4-19	767	355	1122	212	140	56	61
BL(T)4-22	848	355	1203	212	140	58	62





Performance Curve - BL(T) 8



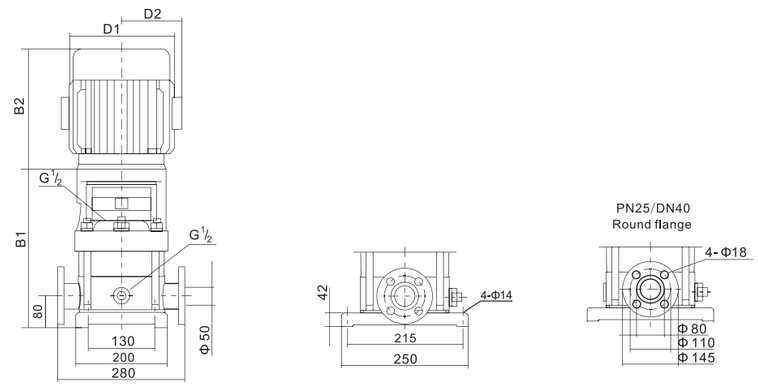
It is recommended to be used within lift range.

Performance Table

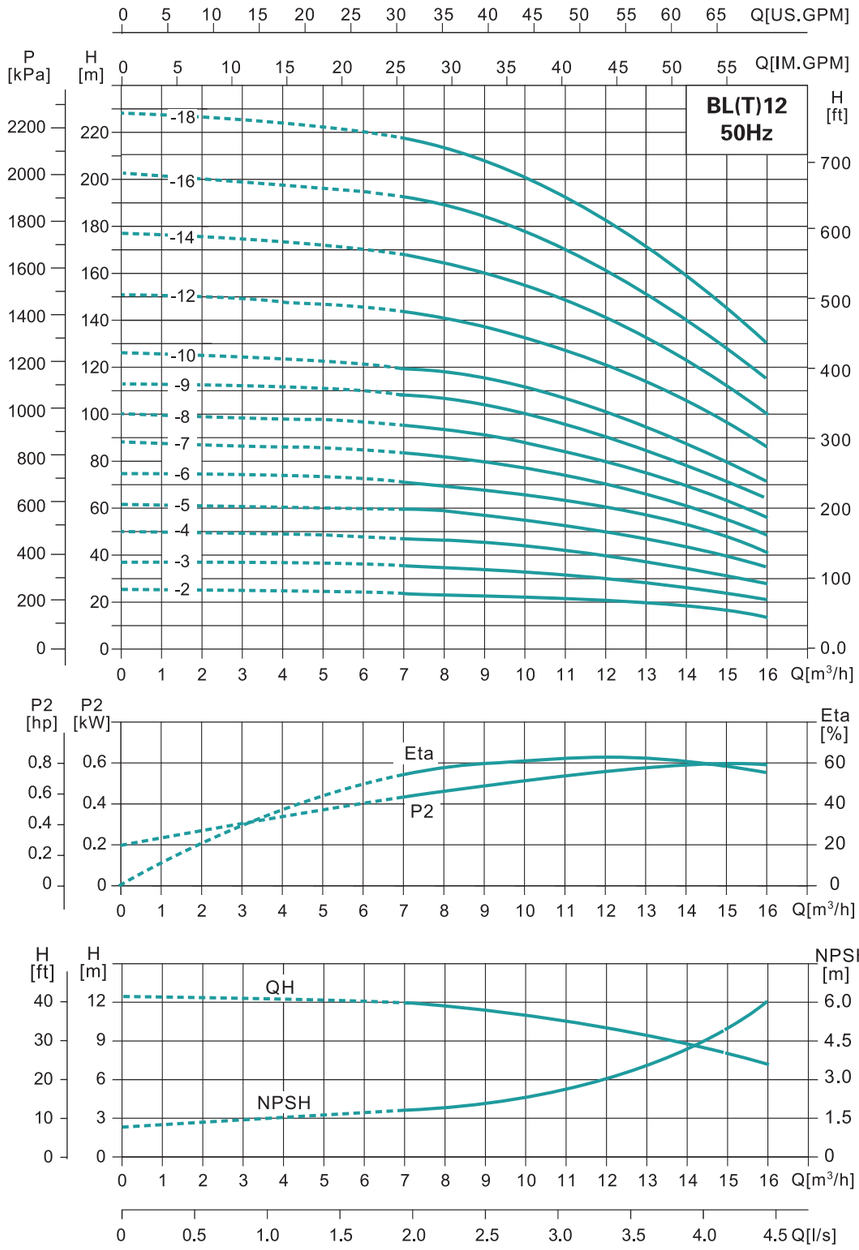
Model	Power		Caliber	Q (m³/h)	5	6	7	8	9	10	11	Head Range (m)
	kW	HP										
BL(T)8-2	0.75	1	50mm (2')	H(m)	20	19.5	19	18	17	16	14	14~20
BL(T)8-3	1.1	1.5			30	29.5	28.5	27	25	24	21	21~30
BL(T)8-4	1.5	2			41	39.5	38	36	34	32	28	28~41
BL(T)8-5	2.2	3			52	50	48	45	42	40	36	36~52
BL(T)8-6	2.2	3			62	60	57	54	51	48	43	43~62
BL(T)8-8	3	4			83	80	77	73	69	65	58	58~83
BL(T)8-10	4	5.5			104	100	97	92	87	81	73	73~104
BL(T)8-11	4	5.5			114	110	106	101	95	86	80	80~114
BL(T)8-12	4	5.5			124	120	116	111	104	92	87	87~124
BL(T)8-14	5.5	7.5			145	141	136	130	122	113	102	102~145
BL(T)8-16	5.5	7.5			166	161	156	148	139	130	118	118~166
BL(T)8-18	7.5	10			187	182	175	167	157	146	134	134~187
BL(T)8-20	7.5	10			208	202	195	186	175	163	150	150~208

Dimensions

Model	Dim.(mm)					N.W.(kg)	
	B1	B2	B1+B2	D1	D2	BL	BLT
BL(T)8-2	368	255	623	155	96	36	43
BL(T)8-3	400	255	655	155	96	39	45
BL(T)8-4	437	300	737	175	115	42	49
BL(T)8-5	469	300	769	175	115	46	53
BL(T)8-6	501	300	801	175	115	47	54
BL(T)8-8	575	325	900	191	128	56	62
BL(T)8-10	639	355	994	212	140	65	71
BL(T)8-11	671	355	1026	212	140	66	72
BL(T)8-12	703	355	1058	212	140	68	74
BL(T)8-14	791	430	1221	258	163	86	93
BL(T)8-16	855	430	1285	258	163	89	95
BL(T)8-18	919	430	1349	258	163	95	101
BL(T)8-20	983	430	1413	258	163	97	103



Performance Curve - BL(T) 12



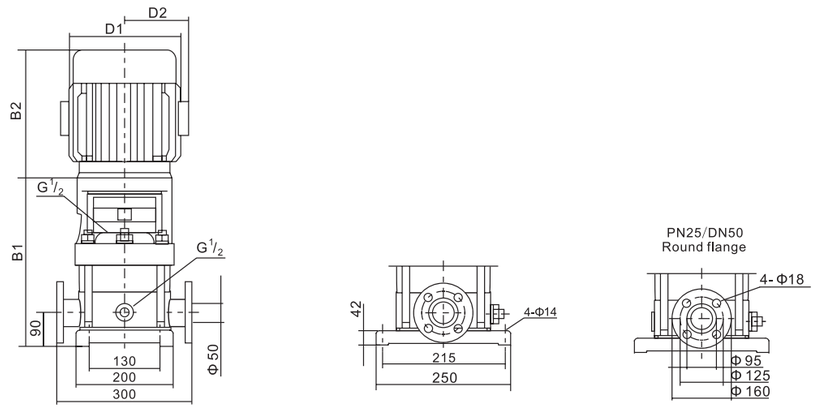
It is recommended to be used within lift range.

Performance Table

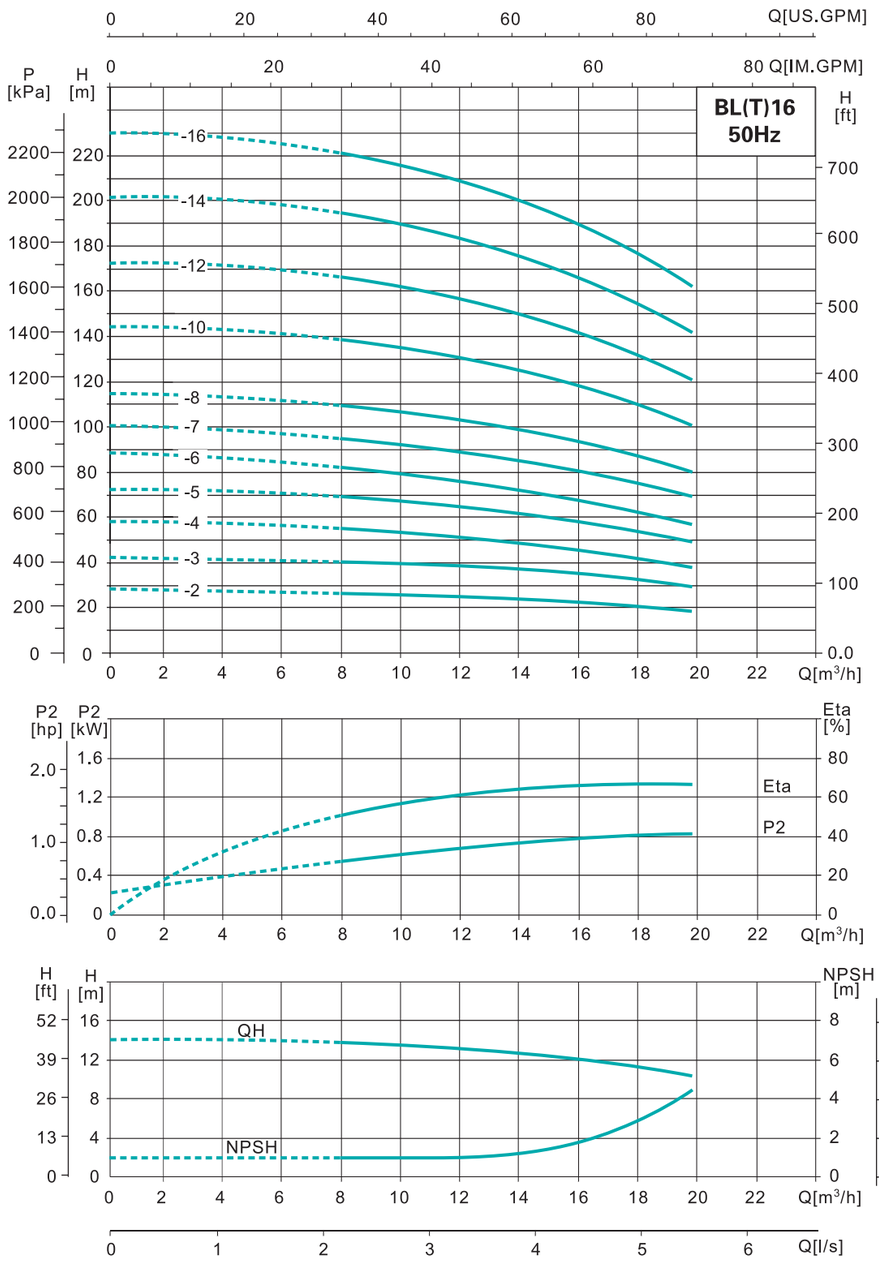
Model	Power		Caliber	Q (m³/h)	7	8	10	12	14	15	16	Head Range (m)
	kW	HP										
BL(T)12-2	1.5	2	50mm (2')	H(m)	23.5	23	22	20	17	15	14	14~23.5
BL(T)12-3	2.2	3			35.5	35	33	30	26	23	21	21~35.5
BL(T)12-4	3	4			47	46	44	40	34	31	28	28~47
BL(T)12-5	3	4			59.5	58	55	50	43	39	35	35~59.5
BL(T)12-6	4	5.5			71.5	70	66	60	52	47	42	42~71.5
BL(T)12-7	5.5	7.5			83.5	82	77	70	61	55	49	49~83.5
BL(T)12-8	5.5	7.5			95.5	94	88	80	70	63	56	56~95.5
BL(T)12-9	5.5	7.5			108	106	100	91	79	71	64	64~108
BL(T)12-10	7.5	10			120	118	111	101	88	80	72	72~120
BL(T)12-12	7.5	10			143.5	141	133	121	106	96	86	86~143.5
BL(T)12-14	11	15			168	165	155	141	124	112	100	100~168
BL(T)12-16	11	15			192.5	189	178	162	142	128	115	115~192.5
BL(T)12-18	11	15			217	213	202	183	160	145	130	130~217

Dimensions

Model	Dim.(mm)					N.W.(kg)	
	B1	B2	B1+B2	D1	D2	BL	BLT
BL(T)12-2	383	300	683	166	115	41	48
BL(T)12-3	415	300	715	166	115	44	51
BL(T)12-4	456	325	781	191	128	52	59
BL(T)12-5	488	325	813	191	128	53	60
BL(T)12-6	519	355	874	212	140	61	69
BL(T)12-7	575	395	970	258	163	79	87
BL(T)12-8	606	395	1001	258	163	80	88
BL(T)12-9	638	395	1033	258	163	81	89
BL(T)12-10	669	395	1064	258	163	86	94
BL(T)12-12	733	395	1128	258	163	88	96
BL(T)12-14	825	498	1323	315	251	163	171
BL(T)12-16	888	498	1386	315	251	165	173
BL(T)12-18	951	498	1449	315	251	167	175



Performance Curve - BL(T) 16



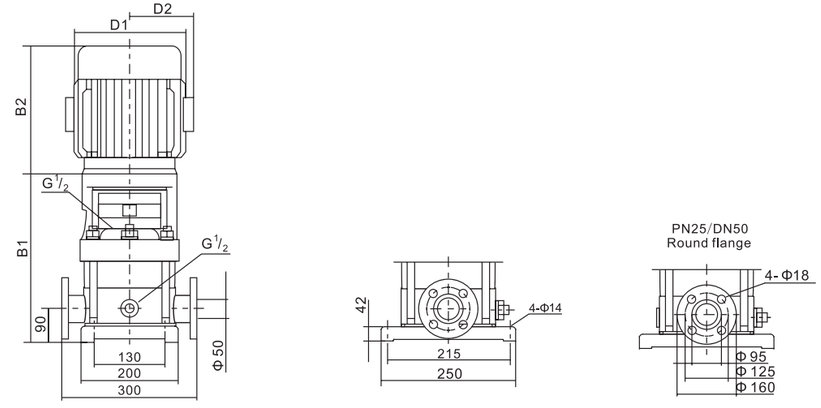
It is recommended to be used within lift range.

Performance Table

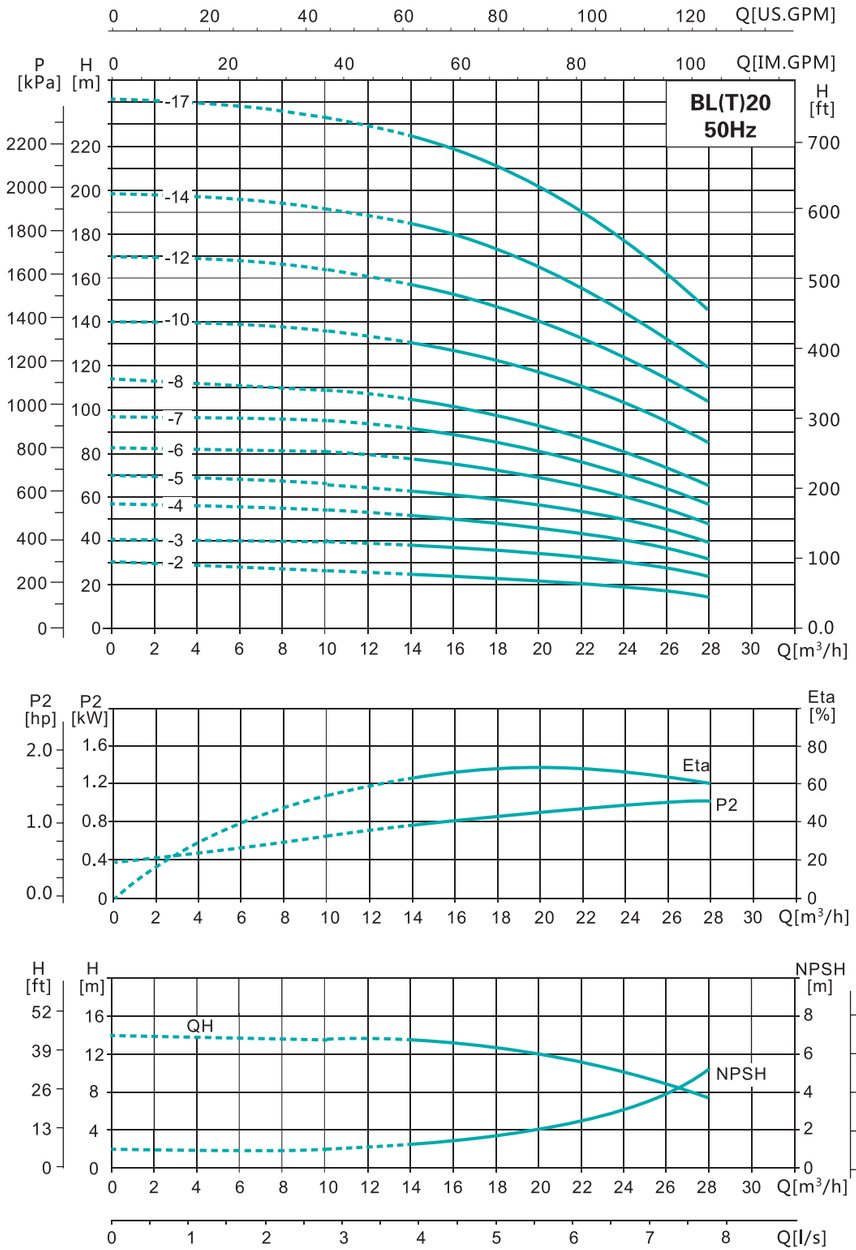
Model	Power		Caliber	Q (m³/h)	8	10	12	14	16	18	20	Head Range (m)
	kW	HP										
BL(T)16-2	2.2	3	50mm (2')	H(m)	27	26	25	24	22	21	19	19~27
BL(T)16-3	3	4			41	40	38	37	34	32	29	29~41
BL(T)16-4	4	5.5			54	53	52	49	46	43	38	38~54
BL(T)16-5	5.5	7.5			68	67	65	62	58	54	48	48~68
BL(T)16-6	5.5	7.5			82	80	78	74	70	64	58	58~82
BL(T)16-7	7.5	10			96	95	91	87	82	76	68	68~96
BL(T)16-8	7.5	10			110	108	104	99	94	86	77	77~110
BL(T)16-10	11	15			138	136	131	125	118	109	97	97~138
BL(T)16-12	11	15			166	162	157	150	141	130	116	116~166
BL(T)16-14	15	20			194	190	184	175	166	152	136	136~194
BL(T)16-16	15	20			222	217	210	200	189	174	156	156~222

Dimensions

Model	Dim.(mm)					N.W.(kg)	
	B1	B2	B1+B2	D1	D2	BL	BLT
BL(T)16-2	410	300	710	166	115	44	51
BL(T)16-3	465	325	790	191	128	52	59
BL(T)16-4	510	355	865	212	140	60	68
BL(T)16-5	581	395	976	258	163	79	86
BL(T)16-6	626	395	1021	258	163	80	88
BL(T)16-7	671	395	1066	258	163	84	93
BL(T)16-8	716	395	1111	258	163	85	95
BL(T)16-10	837	498	1335	315	251	163	171
BL(T)16-12	927	498	1425	315	251	167	173
BL(T)16-14	1017	498	1515	315	251	181	186
BL(T)16-16	1107	498	1605	315	251	183	189



Performance Curve - BL(T) 20



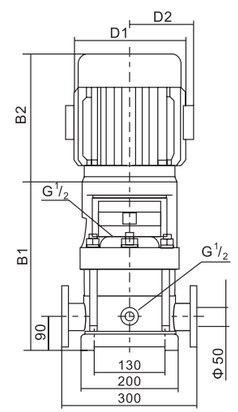
It is recommended to be used within lift range.

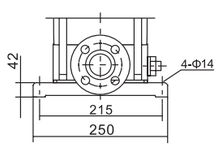
Performance Table

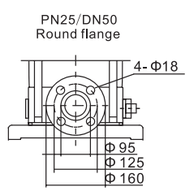
Model	Power		Caliber	Q (m³/h)	14	16	18	20	22	24	26	28	Head Range (m)
	kW	HP											
BL(T)20-2	2.2	3	50mm (2')	H(m)	26	25	24	23	22	20	18	15	15~26
BL(T)20-3	4	5.5			39	38	37	35	33	30	27	24	24~39
BL(T)20-4	5.5	7.5			52	51	49	47	44	41	37	33	33~52
BL(T)20-5	5.5	7.5			64	62	60	58	55	50	45	40	40~64
BL(T)20-6	7.5	10			77	75	73	70	66	61	55	49	49~77
BL(T)20-7	7.5	10			91	89	86	82	77	71	65	58	58~91
BL(T)20-8	11	15			105	102	99	94	89	82	75	67	67~105
BL(T)20-10	11	15			131	128	124	118	111	103	95	85	85~131
BL(T)20-12	15	20			158	154	149	142	133	124	114	102	102~158
BL(T)20-14	15	20			185	180	174	166	156	145	133	119	119~185
BL(T)20-17	18.5	25			225	219	212	202	190	177	162	145	145~225

Dimensions

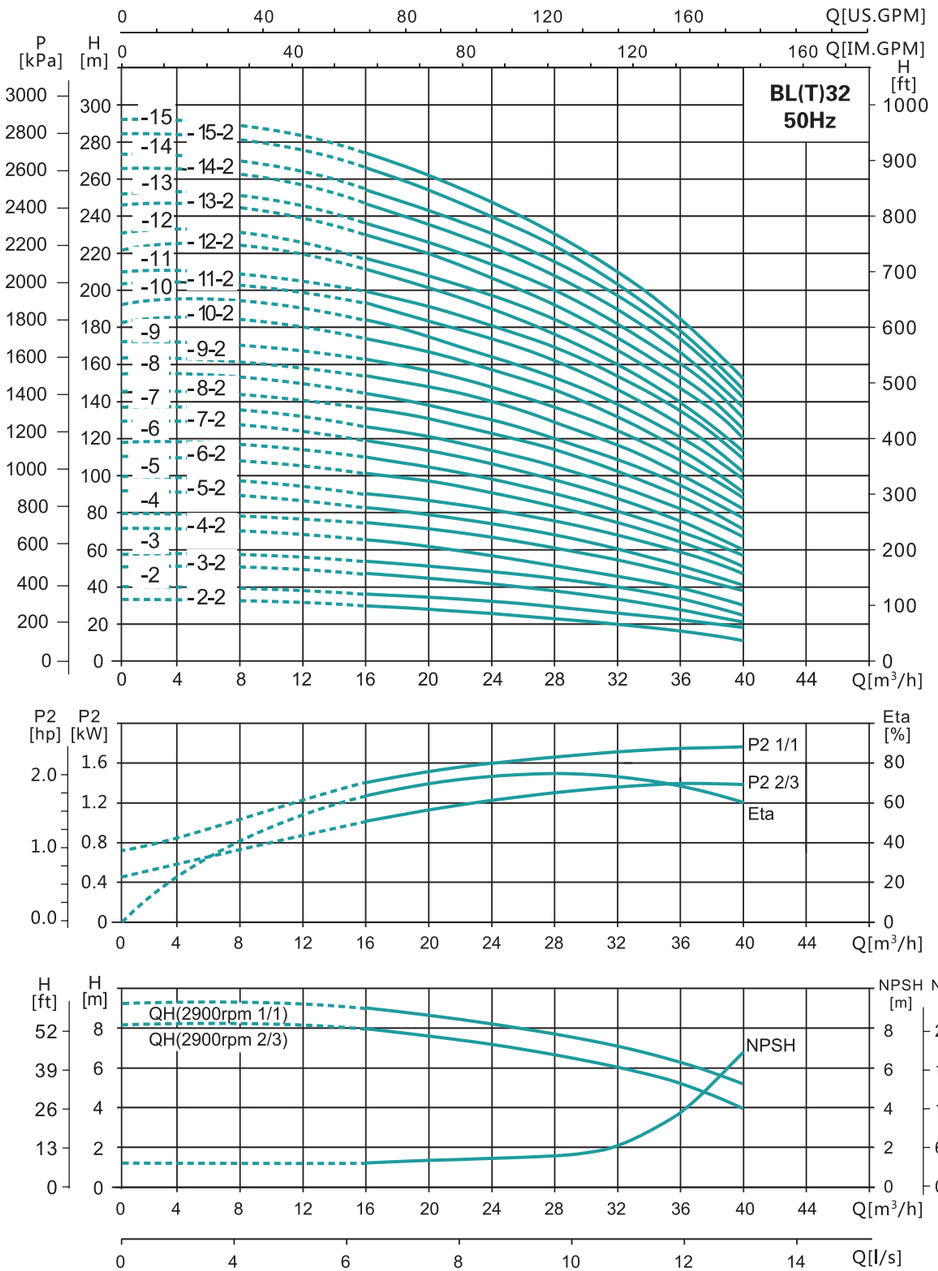
Model	Dim.(mm)					N.W.(kg)	
	B1	B2	B1+B2	D1	D2	BL	BLT
BL(T)20-2	410	300	710	166	115	44	51
BL(T)20-3	465	355	820	212	140	59	66
BL(T)20-4	536	395	931	258	163	77	85
BL(T)20-5	581	395	976	258	163	79	87
BL(T)20-6	626	395	1021	258	163	82	92
BL(T)20-7	671	395	1066	258	163	83	94
BL(T)20-8	747	498	1245	315	251	160	168
BL(T)20-10	837	498	1335	315	251	163	171
BL(T)20-12	927	498	1425	315	251	177	184
BL(T)20-14	1017	498	1515	315	251	180	187
BL(T)20-17	1152	542	1694	315	251	200	208







Performance Curve - BL(T) 32

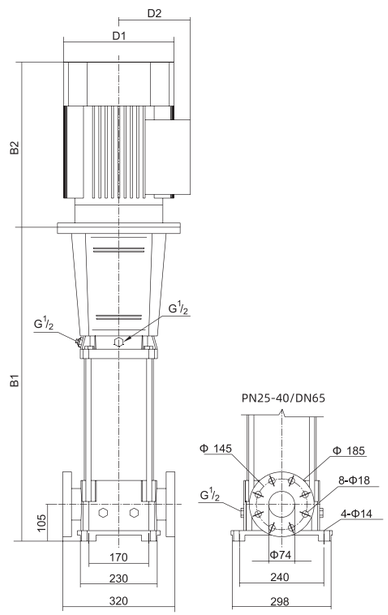


It is recommended to be used within lift range.

Performance Table

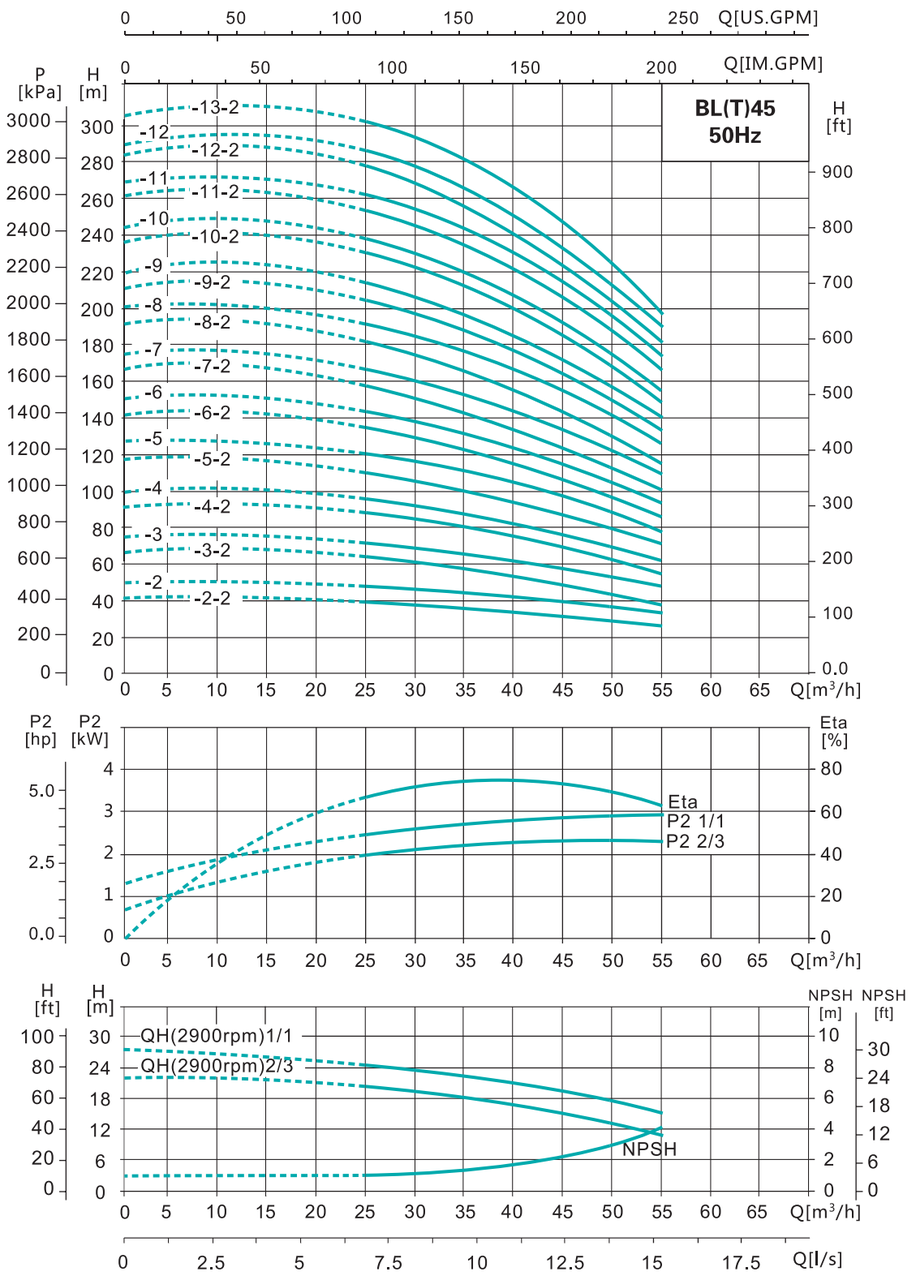
Model	Power kW	Power HP	Caliber	Q (m³/h)	14	20	24	28	32	24	40	Head Range (m)
BL(T)32-2-2	3	4	50mm (2')	H(m)	29	28	26	23	20	16	11	11~29
BL(T)32-2	4	5.5			36	34	32	29	27	23	18	18~36
BL(T)32-3-2	5.5	7.5			47	44	41	38	33	28	21	21~47
BL(T)32-3	5.5	7.5			54	51	48	44	40	35	27	27~54
BL(T)32-4-2	7.5	10			65	62	58	53	46	40	30	30~65
BL(T)32-4	7.5	10			72	69	65	59	53	47	37	37~72
BL(T)32-5-2	11	15			83	79	74	68	60	52	41	41~83
BL(T)32-5	11	15			90	86	81	74	67	59	47	47~90
BL(T)32-6-2	11	15			101	97	90	83	74	65	51	51~101
BL(T)32-6	11	15			108	104	97	90	81	72	57	57~108
BL(T)32-7-2	15	20			119	114	107	98	88	78	60	60~119
BL(T)32-7	15	20			126	121	113	105	95	85	67	67~126
BL(T)32-8-2	15	20			136	131	123	114	102	90	71	71~136
BL(T)32-8	15	20			144	138	130	120	109	97	77	77~144
BL(T)32-9-2	18.5	25			154	148	140	129	117	102	82	82~154
BL(T)32-9	18.5	25			162	156	147	136	124	109	88	88~162
BL(T)32-10-2	18.5	25			175	166	157	146	131	115	91	91~175
BL(T)32-10	18.5	25			182	173	164	152	138	122	98	98~182
BL(T)32-11-2	22	30			193	184	173	164	146	128	102	102~193
BL(T)32-11	22	30			200	191	180	168	153	135	109	109~200
BL(T)32-12-2	22	30			211	201	189	178	160	140	113	113~211
BL(T)32-12	22	30			218	208	196	184	167	147	120	120~218
BL(T)32-13-2	30	40			230	218	206	193	174	153	124	124~230
BL(T)32-13	30	40			237	225	213	200	181	160	131	131~237
BL(T)32-14-2	30	40			247	235	222	210	189	165	135	135~247
BL(T)32-14	30	40			255	242	229	216	196	172	142	142~255
BL(T)32-15-2	30	40			266	253	239	224	203	178	145	145~266
BL(T)32-15	30	40			274	260	246	231	210	185	152	152~274

Dimensions



Model	Dim.(mm) B1	B2	B1+B2	D1	D2	N.W.(kg) BL	BLT
BL(T)32-2-2	634	325	959	191	128	72	77
BL(T)32-2	634	355	989	212	140	80	84
BL(T)32-3-2	724	395	1119	258	163	98	103
BL(T)32-3	724	395	1119	258	163	98	103
BL(T)32-4-2	794	395	1189	258	163	103	108
BL(T)32-4	794	395	1189	258	163	103	108
BL(T)32-5-2	894	498	1392	315	251	181	187
BL(T)32-5	894	498	1392	315	251	181	187
BL(T)32-6-2	964	498	1462	315	251	185	190
BL(T)32-6	964	498	1462	315	251	185	190
BL(T)32-7-2	1034	498	1532	315	251	198	203
BL(T)32-7	1034	498	1532	315	251	198	203
BL(T)32-8-2	1104	498	1602	315	251	201	207
BL(T)32-8	1104	498	1602	315	251	201	207
BL(T)32-9-2	1174	542	1716	315	251	221	227
BL(T)32-9	1174	542	1716	315	251	221	227
BL(T)32-10-2	1244	542	1786	315	251	224	230
BL(T)32-10	1244	542	1786	315	251	224	230
BL(T)32-11-2	1314	578	1892	355	267	269	275
BL(T)32-11	1314	578	1892	355	267	269	275
BL(T)32-12-2	1384	578	1962	355	267	272	278
BL(T)32-12	1384	578	1962	355	267	272	278
BL(T)32-13-2	1454	669	2123	397	299	350	357
BL(T)32-13	1454	669	2123	397	299	350	357
BL(T)32-14-2	1524	669	2193	397	299	353	360
BL(T)32-14	1524	669	2193	397	299	353	360
BL(T)32-15-2	1594	669	2263	397	299	356	363
BL(T)32-15	1594	669	2263	397	299	356	363

Performance Curve - BL(T) 45

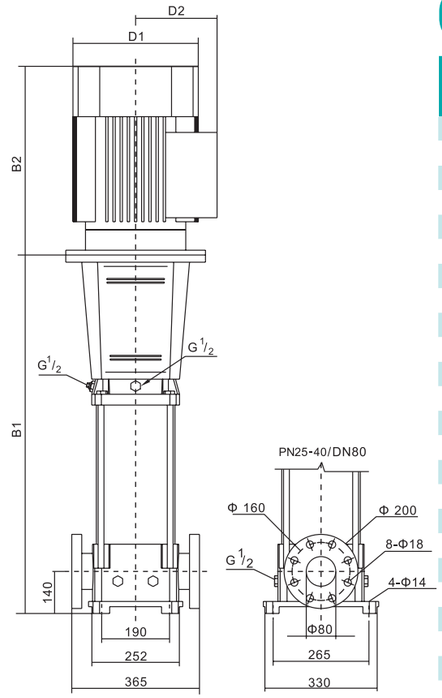


It is recommended to be used within lift range.

Performance Table

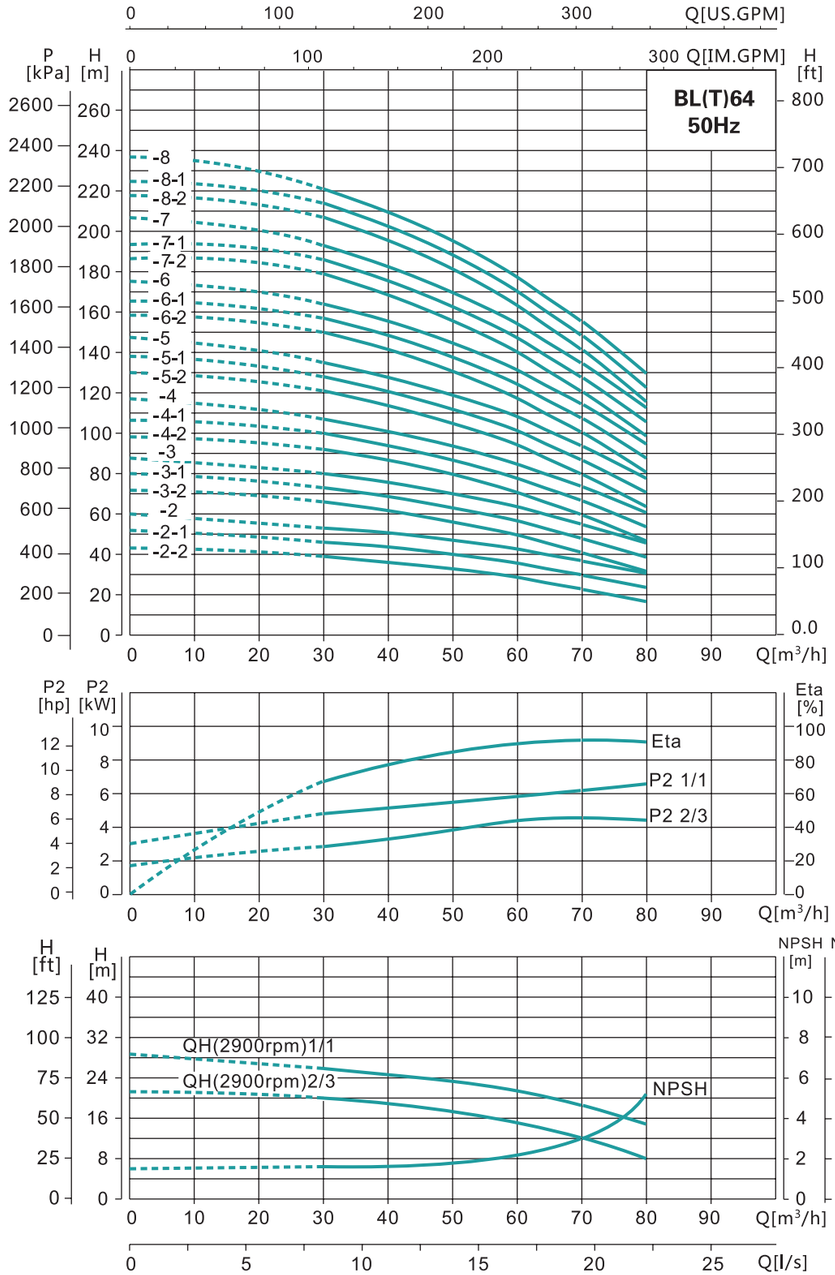
Model	Power		Caliber	Q (m³/h)	25	30	35	40	45	50	55	Head Range (m)
	kW	HP										
BL(T)45-2-2	5.5	7.5	74mm (3 1/4')	H(m)	40	38	36	33	30	27	23	23~40
BL(T)45-2	7.5	10			48	46	44	42	39	35	31	31~48
BL(T)45-3-2	11	15			63	61	58	54	50	44	38	38~63
BL(T)45-3	11	15			71	69	66	63	58	53	47	47~71
BL(T)45-4-2	15	20			87	84	80	75	69	62	54	54~87
BL(T)45-4	15	20			95	92	88	84	78	71	62	62~95
BL(T)45-5-2	18.5	25			111	107	102	96	88	80	69	69~111
BL(T)45-5	18.5	25			119	115	110	105	97	88	78	78~119
BL(T)45-6-2	22	30			135	130	124	117	108	97	85	85~135
BL(T)45-6	22	30			143	138	132	125	116	106	93	93~143
BL(T)45-7-2	30	40			158	152	146	138	127	115	100	100~158
BL(T)45-7	30	40			166	161	154	146	135	124	109	109~166
BL(T)45-8-2	30	40			182	175	168	159	146	133	116	116~182
BL(T)45-8	30	40			190	184	176	167	154	141	124	124~190
BL(T)45-9-2	30	40			205	198	190	180	166	150	132	132~205
BL(T)45-9	37	50			214	207	198	188	174	159	140	140~214
BL(T)45-10-2	37	50			230	221	212	200	185	168	147	147~230
BL(T)45-10	37	50			238	230	220	209	193	177	155	155~238
BL(T)45-11-2	45	60			255	246	236	223	206	188	165	165~255
BL(T)45-11	45	60			263	255	244	232	214	196	173	173~263
BL(T)45-12-2	45	60			280	270	259	245	226	206	181	181~280
BL(T)45-12	45	60			289	280	268	255	236	216	190	190~289
BL(T)45-13-2	45	60			305	294	282	267	247	225	198	198~305

Dimensions



Model	Dim.(mm)					N.W.(kg)	
	B1	B2	B1+B2	D1	D2	BL	BLT
BL(T)45-2-2	716	395	1111	258	163	102	114
BL(T)45-2	716	395	1111	258	163	106	118
BL(T)45-3-2	826	498	1324	315	251	184	194
BL(T)45-3	826	498	1324	315	251	184	194
BL(T)45-4-2	906	498	1404	315	251	197	208
BL(T)45-4	906	498	1404	315	251	197	208
BL(T)45-5-2	986	542	1528	315	251	218	229
BL(T)45-5	986	542	1528	315	251	218	229
BL(T)45-6-2	1066	578	1644	355	267	263	274
BL(T)45-6	1066	578	1644	355	267	263	274
BL(T)45-7-2	1146	669	1815	397	299	342	353
BL(T)45-7	1146	669	1815	397	299	342	353
BL(T)45-8-2	1226	669	1895	397	299	347	356
BL(T)45-8	1226	669	1895	397	299	347	356
BL(T)45-9-2	1306	669	1975	397	299	349	360
BL(T)45-9	1386	669	2055	397	299	371	382
BL(T)45-10-2	1386	669	2055	397	299	375	386
BL(T)45-10	1466	669	2135	397	299	375	386
BL(T)45-11-2	1466	709	2175	446	322	439	450
BL(T)45-11	1546	709	2255	446	322	439	450
BL(T)45-12-2	1546	709	2255	446	322	442	454
BL(T)45-12	1626	709	2335	446	322	442	454
BL(T)45-13-2	1626	709	2335	446	322	446	458

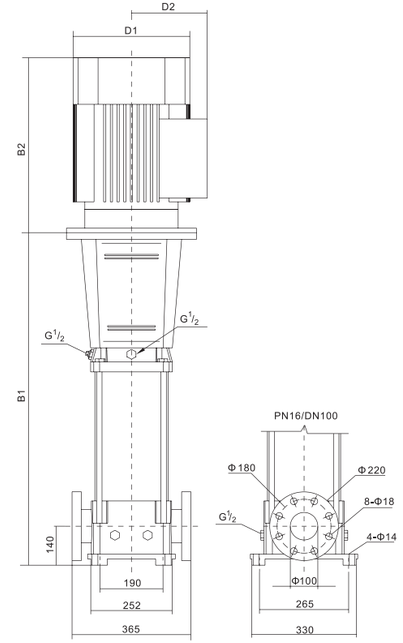
Performance Curve - BL(T)64



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	100mm (4')	H(m)	39	36	33	29	26	23	17	17~39
BL(T)64-2-1	11	15			46	44	40	36	33	30	24	24~46
BL(T)64-2	11	15			53	51	47	43	40	37	31	31~53
BL(T)64-3-2	15	20			66	62	56	50	46	41	32	32~66
BL(T)64-3-1	15	20			73	69	63	57	53	48	39	39~73
BL(T)64-3	18.5	25			80	76	71	65	60	56	46	46~80
BL(T)64-4-2	18.5	25			92	87	80	71	66	60	47	47~92
BL(T)64-4-1	22	30			100	94	87	78	73	67	54	54~100
BL(T)64-4	22	30			107	101	94	85	80	74	61	61~107
BL(T)64-5-2	30	40			121	114	105	95	88	80	64	64~121
BL(T)64-5-1	30	40			128	121	112	102	95	87	71	71~128
BL(T)64-5	30	40			136	129	119	109	102	94	78	78~136
BL(T)64-6-2	30	40			150	142	131	118	110	101	81	81~150
BL(T)64-6-1	37	50			157	149	138	125	117	108	88	88~157
BL(T)64-6	37	50			164	156	145	132	124	115	95	95~164
BL(T)64-7-2	37	50			179	169	156	141	132	121	99	99~179
BL(T)64-7-1	37	50			186	176	163	148	139	128	106	106~186
BL(T)64-7	45	60			193	183	170	155	146	135	112	112~193
BL(T)64-8-2	45	60			207	196	182	164	154	142	116	116~207
BL(T)64-8-1	45	60			214	203	189	171	161	149	123	123~214
BL(T)64-8	45	60			221	210	196	178	168	156	130	130~221

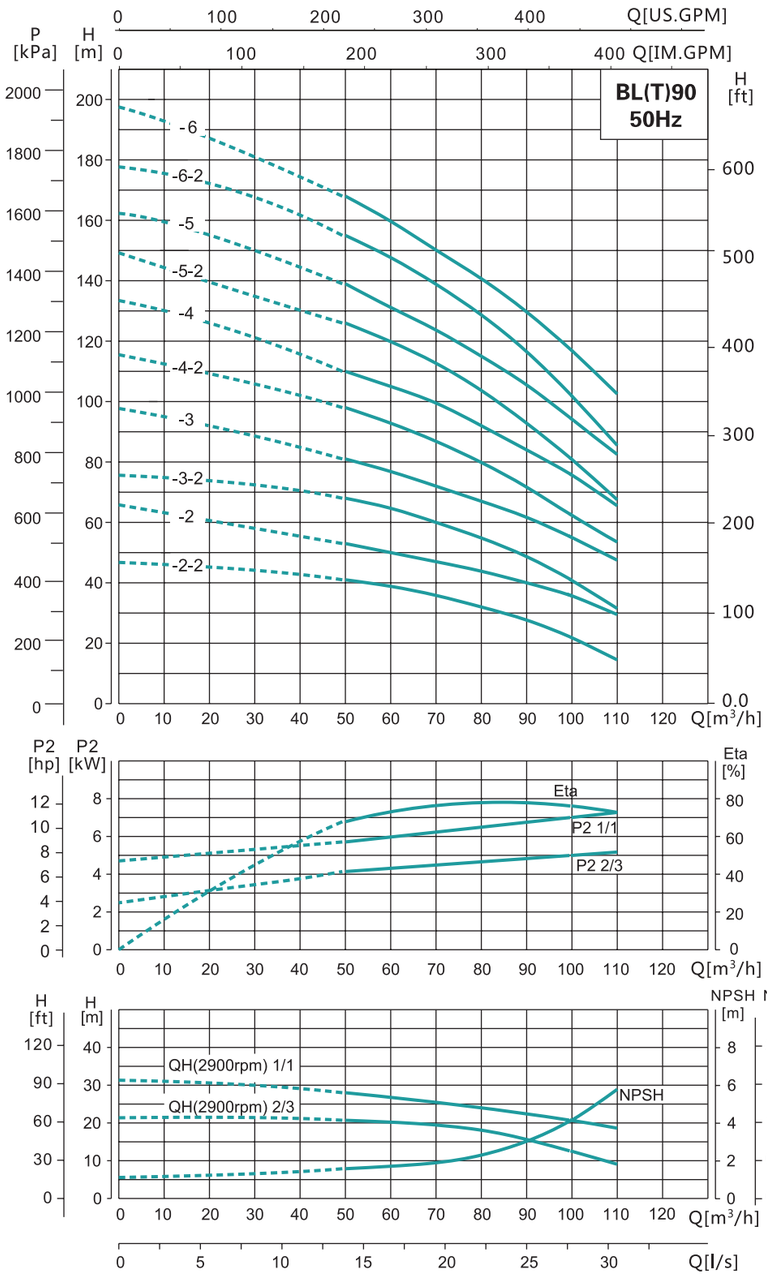


PN25-40/DN100 standard flange, on request.

Dimensions

Model	Dim.(mm)					N.W.(kg)	
	B1	B2	B1+B2	D1	D2	BL	BLT
BL(T)64-2-2	685	390	1075	258	163	126	129
BL(T)64-2-1	715	498	1213	315	251	189	192
BL(T)64-2	715	498	1213	315	251	189	192
BL(T)64-3-2	825	498	1323	315	251	202	205
BL(T)64-3-1	825	498	1323	315	251	202	205
BL(T)64-3	825	542	1367	315	251	219	222
BL(T)64-4-2	905	542	1447	315	251	223	227
BL(T)64-4-1	905	578	1483	355	267	265	268
BL(T)64-4	905	578	1483	355	267	265	268
BL(T)64-5-2	985	669	1653	397	299	345	348
BL(T)64-5-1	985	669	1653	397	299	345	348
BL(T)64-5	985	669	1653	397	299	345	348
BL(T)64-6-2	1065	669	1734	397	299	348	352
BL(T)64-6-1	1065	669	1734	397	299	370	374
BL(T)64-6	1065	669	1734	397	299	370	374
BL(T)64-7-2	1145	669	1814	397	299	376	379
BL(T)64-7-1	1145	669	1814	397	299	376	379
BL(T)64-7	1145	709	1854	446	322	435	438
BL(T)64-8-2	1225	709	1934	446	322	439	442
BL(T)64-8-1	1225	709	1934	446	322	439	442
BL(T)64-8	1225	709	1934	446	322	439	442

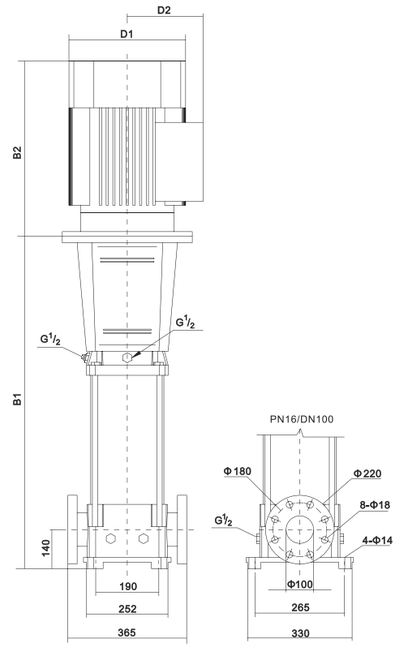
Performance Curve - BL(T)90



It is recommended to be used within lift range.

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	100mm (4')	H(m)	41	39	36	32	28	22	15	15~41
BL(T)90-2	15	20			53	50	47	44	40	36	30	30~53
BL(T)90-3-2	18.5	25			68	65	60	55	49	41	32	32~68
BL(T)90-3	22	30			81	77	72	67	62	55	48	48~81
BL(T)90-4-2	30	40			98	93	87	80	72	62	50	50~98
BL(T)90-4	30	40			110	105	100	92	84	76	66	66~110
BL(T)90-5-2	37	50			126	120	113	104	93	81	68	68~126
BL(T)90-5	37	50			139	131	124	115	106	94	83	83~139
BL(T)90-6-2	45	60			155	148	139	129	117	102	86	86~155
BL(T)90-6	45	60			168	160	150	141	130	117	103	103~168

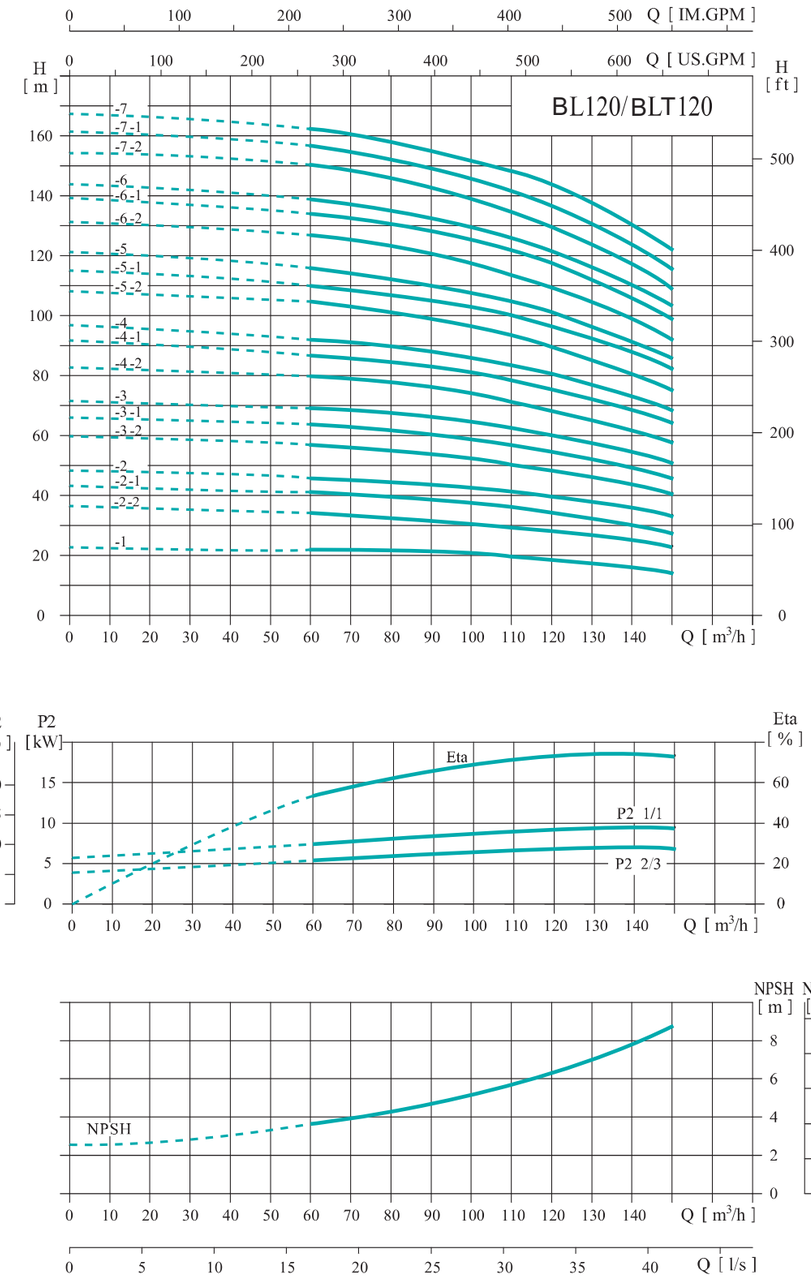


PN25-40/DN100 standard flange, on request.

Dimensions

Model	Dim.(mm)					N.W.(kg)	
	B1	B2	B1+B2	D1	D2	BL	BLT
BL(T)90-2-2	771	498	1269	315	251	190	202
BL(T)90-2	771	498	1269	315	251	200	212
BL(T)90-3-2	863	542	1405	315	251	221	232
BL(T)90-3	863	578	1441	355	267	263	274
BL(T)90-4-2	955	669	1624	397	299	334	345
BL(T)90-4	955	669	1624	397	299	334	345
BL(T)90-5-2	1047	669	1716	397	299	369	380
BL(T)90-5	1047	669	1716	397	299	369	380
BL(T)90-6-2	1139	709	1848	446	322	432	442
BL(T)90-6	1139	709	1848	446	322	432	442

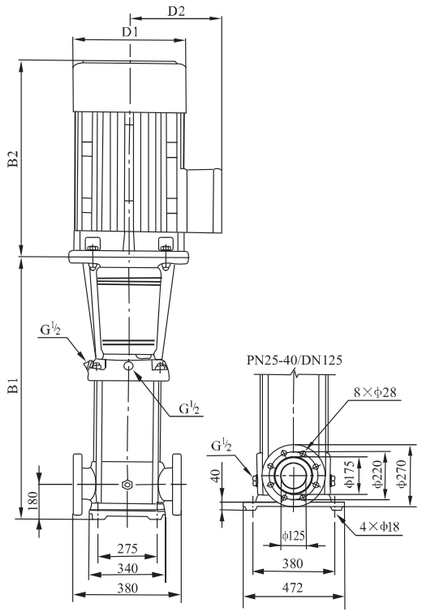
Performance Curve - BL(T)120



It is recommended to be used within lift range.

Performance Table

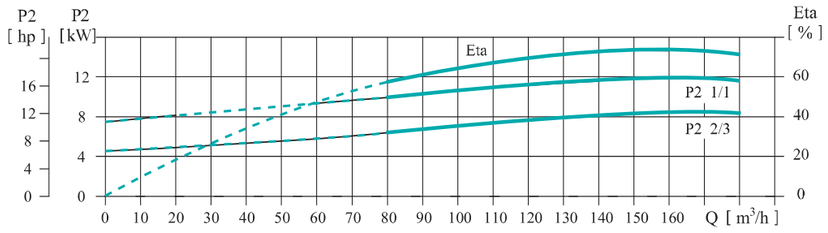
Model	Power		Q (m³/h)	60	70	80	90	100	110	120	130	140	150	Head Range (m)
	kW	HP												
BL(T)120-1	11	15		22	21.8	21.6	21	20.5	19.5	18.5	17	16	15	15~22
BL(T)120-2-2	15	20		34	33.6	33	31	30.2	30	28.5	27	25	24	24~34
BL(T)120-2-1	18.5	15		41	40	39.5	38.5	37	36.5	34.5	32.5	30	27.5	27.5~41
BL(T)120-2	22	30		46	45	44.5	43.5	42.4	41	40	38	36	33.5	33.5~46
BL(T)120-3-2	30	40		57	56	55	53.5	52	51	49	46.5	43.5	41	41~57
BL(T)120-3-1	30	40		64	63	62	60	58.5	57.5	55.5	52	49	46	46~64
BL(T)120-3	30	40		69.5	68.5	67.5	66	64.4	62.5	61	57.5	54.5	51	51~69.5
BL(T)120-4-2	37	49.5		80.5	79	78	76	73.5	72	69	66	61.5	58	58~80.5
BL(T)120-4-1	37	49.5		87	86	84.5	82	80	78	76	72	68	64.5	64.5~87
BL(T)120-4	45	60	H(m)	92.5	91	90	88	85.5	83	81	77	73	68.5	68.5~92.5
BL(T)120-5-2	45	60		104. 5	103	101	99	96	93	90	85.5	80.5	75.5	75.5~104.5
BL(T)120-5-1	45	60		110. 5	109	107.5	105	102	100	97	92	86.5	83	83~110.5
BL(T)120-5	55	73.5		115. 5	114	113	110	107.5	104.5	101.5	96	91	86	86~115.5
BL(T)120-6-2	55	73.5		128	125.5	123	121	117.3	113.5	110	104.5	98.5	92.5	92.5~128
BL(T)120-6-1	55	73.5		134	132	130.5	127	124	121	118	111	105	100	100~134
BL(T)120-6	75	100		139	137	135	132	128.8	126	123	116	110	104	104~139
BL(T)120-7-2	75	100		151	148	145.5	143	138.6	134	130	123.5	116.5	109	109~151
BL(T)120-7-1	75	100		156. 5	154	152	148.5	144.5	141	137.5	130	123	116.5	116.5~156.5
BL(T)120-7	75	100		162. 5	160.5	158.5	155	151	148	145	137	129	123	123~162.5

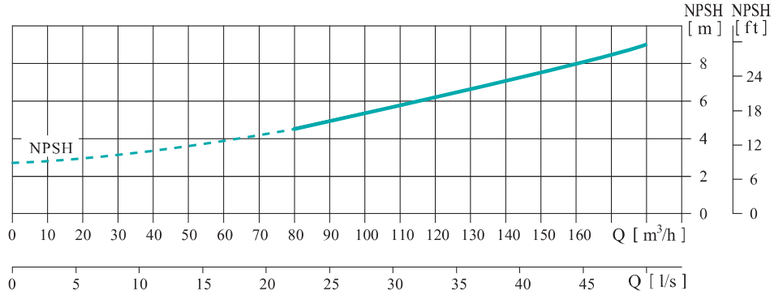


Dimensions

Model	Dim.(mm)					N.W.(kg)
	B1	B2	B1+B2	D1	D2	
BL(T)120-1	840	500	1340	330	255	230
BL(T)120-2-2	1000	500	1500	330	255	245
BL(T)120-2-1	1000	550	1550	330	255	250
BL(T)120-2	1000	575	1575	360	285	285
BL(T)120-3-2	1160	650	1810	400	310	360
BL(T)120-3-1	1160	650	1810	400	310	360
BL(T)120-3	1160	650	1810	400	310	360
BL(T)120-4-2	1320	650	1970	400	310	400
BL(T)120-4-1	1320	650	1970	400	310	400
BL(T)120-4	1320	685	2005	460	340	460
BL(T)120-5-2	1480	685	2165	460	340	470
BL(T)120-5-1	1480	685	2165	460	340	470
BL(T)120-5	1510	760	2270	540	370	575
BL(T)120-6-2	1670	760	2430	540	370	585
BL(T)120-6-1	1670	760	2430	540	370	585
BL(T)120-6	1670	845	2515	580	410	705
BL(T)120-7-2	1830	845	2675	580	410	715
BL(T)120-7-1	1830	845	2675	580	410	715
BL(T)120-7	1830	845	2675	580	410	715

Performance Curve - BL(T)150

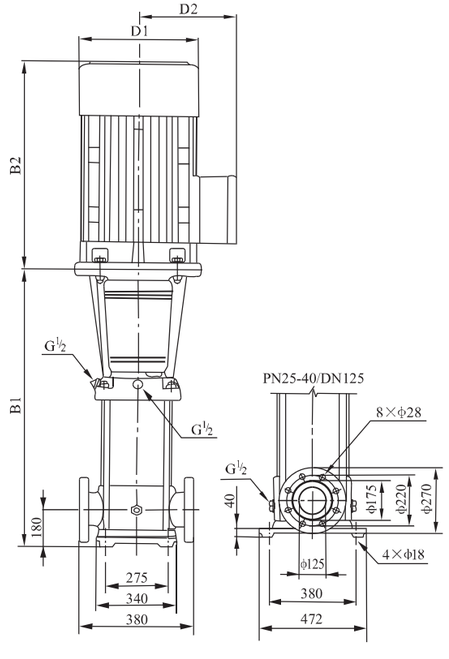




It is recommended to be used within lift range.

Performance Table

Model	Power		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		18.3	17.8	17.3	17	16	15	14	12.5	11	10	8.5	8.5~18.3
BL(T)150-1	15	20		24	23	22.5	22	21.5	20.5	20	18.5	17	16	15	15~24
BL(T)150-2-2	18.5	15		37	35.5	34	33	32	31	29	27.5	26	23	21	21~37
BL(T)150-2-1	22	30		44.3	43	42	40	39	38.5	37.5	35	33	30	27	27~44.3
BL(T)150-2	30	40		50	49	48	47	45.5	44	42	40	37	34	32	32~50
BL(T)150-3-2	30	40		63.5	61	59	57.5	56	54.5	53	49	45.5	42	39	39~63.5
BL(T)150-3-1	37	49.5		70	68	67	65	63	62	60	56	53	49	45	45~70
BL(T)150-3	37	49.5		78	76.5	75	73	70.5	68	66	63	59	55	50.5	50.5~78
BL(T)150-4-2	45	60	H(m)	89	87	84	81.5	79	77	74.5	70.5	65.5	60	56	56~89
BL(T)150-4-1	45	60		96.5	94	91.5	89	86.5	84	81.5	77	72.5	67	62	62~96.5
BL(T)150-4	55	73.5		104	102	100	97	95	91	88	84	79.5	74	68	68~104
BL(T)150-5-2	55	73.5		115.5	112	109	106	102.5	100	97	92	86	79	73.5	73.5~115.5
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	80~122.5
BL(T)150-5	75	100		130	127.5	125	121	119	115	111.5	106.5	101	94.5	86.5	86.5~130
BL(T)150-6-2	75	100		140	137	133	130	126	121	118	112	106	98	91	91~140
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	97.5~148.5
BL(T)150-6	75	100		157	153	149	14 5	142	139.5	137	130	123.5	116	109	109~157

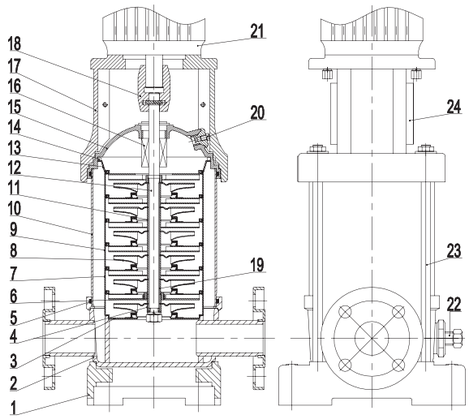


Dimensions

Model	Dim.(mm)					N.W.(kg)
	B1	B2	B1+B2	D1	D2	
BL(T)150-1-1	840	500	1340	330	255	230
BL(T)150-1	840	500	1340	330	255	235
BL(T)150-2-2	1000	550	1550	330	255	250
BL(T)150-2-1	1000	575	1575	360	285	295
BL(T)150-2	1000	650	1650	400	310	350
BL(T)150-3-2	1160	650	1810	400	310	360
BL(T)150-3-1	1160	650	1810	400	310	360
BL(T)150-3	1160	650	1810	400	310	385
BL(T)150-4-2	1320	685	2005	460	340	460
BL(T)150-4-1	1320	685	2005	460	340	460
BL(T)150-4	1350	760	2110	540	370	560
BL(T)150-5-2	1510	760	2270	540	370	570
BL(T)150-5-1	1510	845	2355	580	410	690
BL(T)150-5	1510	845	2355	580	410	690
BL(T)150-6-2	1670	845	2515	580	410	700
BL(T)150-6-1	1670	845	2515	580	410	700
BL(T)150-6	1670	845	2515	580	410	700

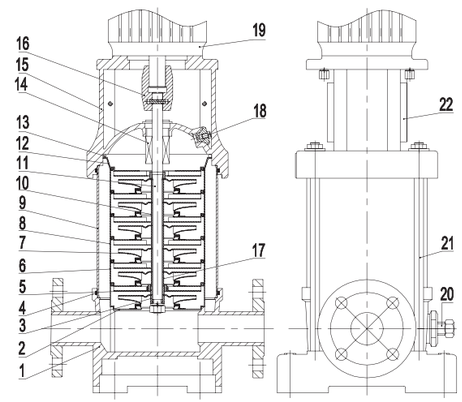
Components & Materials

BL2 BL4



No.	Component	Material	AISI/ASTM
1	Base Plate	HT200	ASTM35B
2	Pump Base	SUS304	AISI304
3	Inlet Fluid Director	SUS304	AISI304
4	Lining	SUS304	AISI304
5	O-ring	NBR	
6	Bearing	YN20	
7	Fluid Director With Bearings	SUS304	AISI304
8	Impeller	SUS304	AISI304
9	Fluid Director	SUS304	AISI304
10	Outer Cylinder	SUS304	AISI304
11	Long Round Sleeve	SUS304	AISI304
12	Pump Shaft	SUS304	AISI304
13	Outlet Fluid Director	SUS304	AISI304
14	Wave Spring	SUS304	AISI304
15	Ball-Shaped Lining	SUS304	AISI304
16	Mechanical Seal	YG6、FPM	
17	Motor Base	HT200	ASTM35B
18	Coupling	F0212J	
19	Short Round Sleeve	SUS304	AISI304
20	Air Valve	SUS304	AISI304
21	Motor	Standard Motor	
22	Adjustable Bolt	SUS304	AISI304
23	Pull-rod	Steel 45#	
24	Protection Blade	SUS304	AISI304

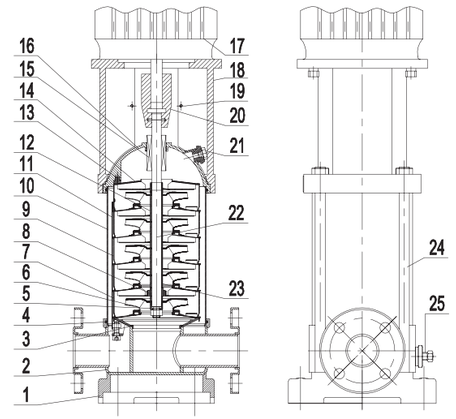
BLT2 BLT4



No.	Component	Material	AISI/ASTM
1	Pump Base	HT200	ASTM35B
2	Inlet Fluid Director	SUS304	AISI304
3	Lining	SUS304	AISI304
4	O-ring	NBR	
5	Bearing	YN20	
6	Fluid Director With Bearings	SUS304	AISI304
7	Impeller	SUS304	AISI304
8	Fluid Director	SUS304	AISI304
9	Outer Cylinder	SUS304	AISI304
10	Long Round Sleeve	SUS304	AISI304
11	Pump Shaft	SUS304	AISI304
12	Outlet Fluid Director	SUS304	AISI304
13	Wave Spring	SUS304	AISI304
14	Mechanical Seal	YN20、FPM	
15	Motor Base	HT200	ASTM35B
16	Coupling	F0212J	
17	Short Round Sleeve	SUS304	AISI304
18	Air Valve	SUS304	AISI304
19	Motor	Standard Motor	
20	Adjustable Bolt	SUS304	AISI304
21	Pull-rod	Steel 45#	
22	Protection Blade	SUS304	AISI304

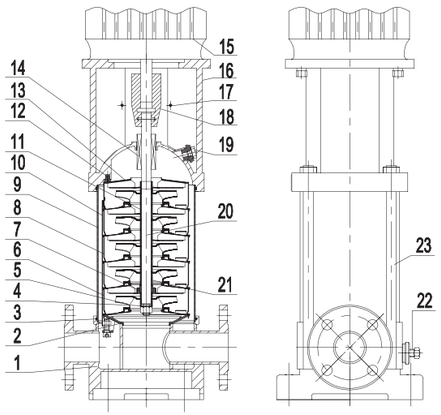
Components & Materials

BL8 BL12 BL16 BL20



No.	Component	Material	AISI/ASTM
1	Base Plate	HT200	ASTM35B
2	Pump Base	SUS304	AISI304
3	Inlet Fluid Director	SUS304	AISI304
4	O-ring	NBR	
5	Lining	SUS304	AISI304
6	Impeller	SUS304	
7	Fluid Director With Bearings	SUS304	AISI304
8	Bearing	YN20	
9	Fluid Director	SUS304	AISI304
10	Outer Cylinder	SUS304	AISI304
11	Pull-rod	SUS304	AISI304
12	Long Round Sleeve	SUS304	AISI304
13	Compress Nail	FPM	
14	Outlet Fluid Director	SUS304	AISI304
15	Mechanical Seal	YN20、FPM	
16	Ball-shaped Lining	SUS304	AISI304
17	Motor	Standard Motor	
18	Motor Base	HT200	ASTM35B
19	Protection Blade	SUS304	AISI304
20	Coupling	F0212J/45#	AISI304
21	Air Valve	SUS304	AISI304
22	Pump Shaft	SUS304	AISI304
23	Short Round Sleeve	SUS304	AISI304
24	Pull-rod	Steel 45#	
25	Adjustable Bolt	SUS304	AISI304

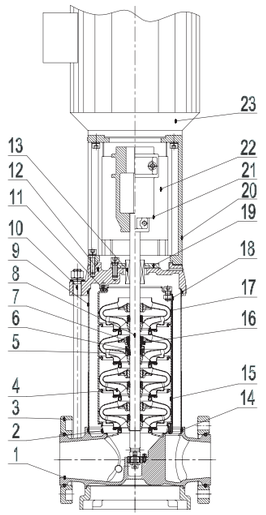
BLT8 BLT12 BLT16 BLT20



No.	Component	Material	AISI/ASTM
1	Pump Base	HT200	ASTM35B
2	Inlet Fluid Director	SUS304	AISI304
3	O-ring	NBR	
4	Lining	SUS304	AISI304
5	Impeller	SUS304	AISI304
6	Fluid Director With Bearings	SUS304	AISI304
7	Bearing	YN20	
8	Fluid Director	SUS304	AISI304
9	Outer Cylinder	SUS304	AISI304
10	Pull-rod	SUS304	AISI304
11	Long Round Sleeve	SUS304	AISI304
12	Compress Nail	FPM	
13	Outlet Fluid Director	SUS304	AISI304
14	Mechanical Seal	YN20、FPM	
15	Motor	Standard Motor	
16	Motor Base	HT200	ASTM35B
17	Protection Blade	SUS304	AISI304
18	Coupling	F0212J/45#	
19	Air Valve	SUS304	AISI304
20	Pump Shaft	SUS304	AISI304
21	Short Round Sleeve	SUS304	AISI304
22	Adjustable Bolt	SUS304	AISI304
23	Pull-rod	Steel 45#	

Components & Materials

BL(T)32-90



No.	Component	Material	AISI/ASTM
1	Pump Base	SUS304/HT250	SUS304/ASTM40B
2	Inlet Fluid Director	SUS304	AISI304
3	Movable Flange	SUS304	AISI304
4	Impeller	SUS304	AISI304
5	Rip Cone Sleeve	SUS304	AISI304
6	Nur Of Rip Cone Sleeve	SUS304	AISI304
7	Impeller/Bearing	YN20、SUS304	
8	Pump Shaft	SUS304	AISI304
9	Outer Cylinder	SUS304	AISI304
10	Pull-rod	Steel 45#	
11	Compress Nail	FPM	
12	Pump Head	SUS304/HT250	SUS304/ASTM40B
13	Mechanical Seal	YN20、FPM	
14	O-ring	NBR	
15	Fluid Director	SUS304	AISI304
16	Fluid Director With Bearings	SUS304	AISI304
17	Outlet Fluid Director	SUS304	AISI304
18	Draw Plate	SUS304	AISI304
19	Mechanical Seal Gland	SUS304	AISI304
20	Motor Base	HT250	ASTM40B
21	Coupling	QT500	
22	Protection Blade	SUS304	AISI304
23	Motor	Standard Motor	Standard Motor

Packing Sizes & Weight

BL(T)2

Model	Dim.(mm) (L*W*H)	G.W.(kg)	
		BL	BLT
BL(T)2-2	590×330×320	25	30
BL(T)2-3	590×330×320	25	30
BL(T)2-4	630×330×320	28	32
BL(T)2-5	630×330×320	28	33
BL(T)2-6	730×330×320	32	37
BL(T)2-7	730×330×320	32	37
BL(T)2-9	790×330×320	35	40
BL(T)2-11	790×330×320	36	41
BL(T)2-13	840×330×320	40	45
BL(T)2-15	880×330×320	41	46
BL(T)2-18	930×330×320	46	51
BL(T)2-22	1030×330×320	49	54
BL(T)2-26	1100×330×390	59	63

BL(T)4

Model	Dim.(mm) (L*W*H)	G.W.(kg)	
		BL	BLT
BL(T)4-2	590×330×320	26	28
BL(T)4-3	630×330×320	28	31
BL(T)4-4	730×330×320	32	36
BL(T)4-5	730×330×320	34	39
BL(T)4-6	790×330×320	35	40
BL(T)4-7	840×330×320	39	45
BL(T)4-8	840×330×320	39	47
BL(T)4-10	880×330×320	44	52
BL(T)4-12	930×330×320	45	51
BL(T)4-14	1030×330×390	55	66
BL(T)4-16	1100×330×390	57	69
BL(T)4-19	1190×350×420	68	81
BL(T)4-22	1270×350×420	70	85

BL(T)8

Model	Dim.(mm) (L*W*H)	G.W.(kg)	
		BL	BLT
BL(T)8-2	780×350×370	43	50
BL(T)8-3	780×350×370	46	52
BL(T)8-4	850×350×370	50	56
BL(T)8-5	850×350×370	53	60
BL(T)8-6	900×350×370	55	62
BL(T)8-8	990×350×370	64	71
BL(T)8-10	1130×350×420	77	82
BL(T)8-11	1130×350×420	78	83
BL(T)8-12	1230×370×460	86	92
BL(T)8-14	1330×370×460	106	112
BL(T)8-16	1400×370×460	109	115
BL(T)8-18	1470×370×460	116	122
BL(T)8-20	1520×370×460	119	125

Packing Sizes & Weight

BL(T)12

Model	Dim.(mm) (L*W*H)	G.W.(kg)	
		BL	BLT
BL(T)12-2	780×350×370	43	55
BL(T)12-3	780×350×370	47	58
BL(T)12-4	900×350×420	57	68
BL(T)12-5	900×350×420	59	69
BL(T)12-6	930×350×420	68	78
BL(T)12-7	1100×370×460	86	103
BL(T)12-8	1160×370×460	88	105
BL(T)12-9	1160×370×460	90	106
BL(T)12-10	1200×370×460	96	112
BL(T)12-12	1230×370×460	100	114
BL(T)12-14	1410×510×520	177	196
BL(T)12-16	1460×510×520	181	199
BL(T)12-18	1530×510×520	185	202

BL(T)16

Model	Dim.(mm) (L*W*H)	G.W.(kg)	
		BL	BLT
BL(T)16-2	780×350×370	51	58
BL(T)16-3	900×350×420	61	68
BL(T)16-4	930×350×420	70	77
BL(T)16-5	1100×370×460	95	102
BL(T)16-6	1160×370×460	97	105
BL(T)16-7	1200×370×460	101	111
BL(T)16-8	1230×370×460	103	113
BL(T)16-10	1410×510×520	188	195
BL(T)16-12	1500×510×520	192	199
BL(T)16-14	1590×510×520	208	214
BL(T)16-16	1680×510×520	213	218

BL(T)20

Model	Dim.(mm) (L*W*H)	G.W.(kg)	
		BL	BLT
BL(T)20-2	780×350×370	51	58
BL(T)20-3	930×350×420	68	76
BL(T)20-4	1100×370×460	93	101
BL(T)20-5	1100×370×460	95	103
BL(T)20-6	1160×370×460	99	109
BL(T)20-7	1200×370×460	101	111
BL(T)20-8	1320×510×520	183	191
BL(T)20-10	1410×510×520	188	196
BL(T)20-12	1500×510×520	202	210
BL(T)20-14	1590×510×520	207	215
BL(T)20-17	1770×510×520	231	239

BL(T)32

Model	Dim.(mm) (L*W*H)	G.W.(kg)	
		BL	BLT
BL(T)32-2-2	1100×370×460	93	98
BL(T)32-2		100	105
BL(T)32-3-2	1300×400×460	118	123
BL(T)32-3		118	123
BL(T)32-4-2		123	129
BL(T)32-4		123	129
BL(T)32-5-2	1550×510×520	207	213
BL(T)32-5		207	213
BL(T)32-6-2		211	216
BL(T)32-6		211	216
BL(T)32-7-2	1590×510×520	226	232
BL(T)32-7		226	232
BL(T)32-8-2		229	235
BL(T)32-8		229	235
BL(T)32-9-2	1890×510×520	250	256
BL(T)32-9		250	256
BL(T)32-10-2		253	259
BL(T)32-10		253	259
BL(T)32-11-2	2030×530×560	305	311
BL(T)32-11		305	311
BL(T)32-12-2		307	314
BL(T)32-12		307	314
BL(T)32-13-2	2330×580×600	399	406
BL(T)32-13		399	406
BL(T)32-14-2		402	409
BL(T)32-14		402	409
BL(T)32-15-2		405	412
BL(T)32-15		405	412

BL(T)45

Model	Dim.(mm) (L*W*H)	G.W.(kg)	
		BL	BLT
BL(T)45-2-2	1210×440×500	126	137
BL(T)45-2		130	141
BL(T)45-3-2	1480×510×520	209	220
BL(T)45-3		209	220
BL(T)45-4-2		223	233
BL(T)45-4		223	233
BL(T)45-5-2	1610×510×520	246	257
BL(T)45-5		246	257
BL(T)45-6-2	1710×530×560	297	308
BL(T)45-6		297	308
BL(T)45-7-2	1970×580×600	383	395
BL(T)45-7		383	395
BL(T)45-8-2		389	397
BL(T)45-8		389	397
BL(T)45-9-2	2130×580×600	394	405
BL(T)45-9		416	427
BL(T)45-10-2		420	431
BL(T)45-10		420	431
BL(T)45-11-2	2330×630×650	497	508
BL(T)45-11		497	508
BL(T)45-12-2		500	512
BL(T)45-12		500	512
BL(T)45-13-2	2390×630×650	506	518

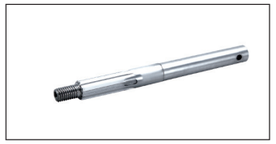
BL(T)64

Model	Dim.(mm) (L*W*H)	G.W.(kg)	
		BL	BLT
BL(T)64-2-2	1480×510×520	152	155
BL(T)64-2-1		215	218
BL(T)64-2		215	218
BL(T)64-3-2	1550×530×460	229	232
BL(T)64-3-1		229	232
BL(T)64-3		246	249
BL(T)64-4-2		250	254
BL(T)64-4-1		292	295
BL(T)64-4		292	295
BL(T)64-5-2	1810×580×600	383	386
BL(T)64-5-1		383	386
BL(T)64-5		383	386
BL(T)64-6-2		386	290
BL(T)64-6-1		408	412
BL(T)64-6		408	412
BL(T)64-7-2	2010×630×650	425	428
BL(T)64-7-1		425	428
BL(T)64-7		484	487
BL(T)64-8-2		488	491
BL(T)64-8-1		488	491
BL(T)64-8		488	491

BL(T)90

Model	Dim.(mm) (L*W*H)	G.W.(kg)	
		BL	BLT
BL(T)90-2-2	1480×510×520	216	228
BL(T)90-2		226	238
BL(T)90-3-2	1550×530×460	248	259
BL(T)90-3		290	301
BL(T)90-4-2	1780×580×600	372	384
BL(T)90-4		372	384
BL(T)90-5-2		407	418
BL(T)90-5		407	418
BL(T)90-6-2	1920×630×650	479	489
BL(T)90-6		479	489

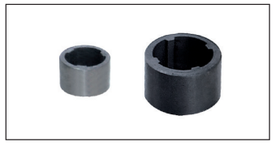
Shaft



Lining



Bearing inner



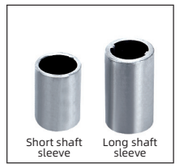
Cartridge mechanical seal



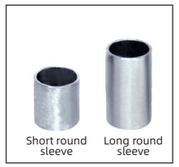
Coupling



Shaft sleeve



Round sleeve



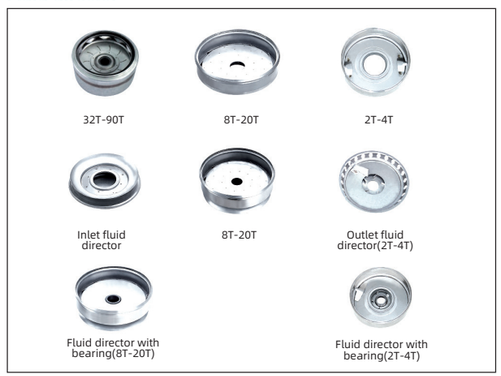
Base plate



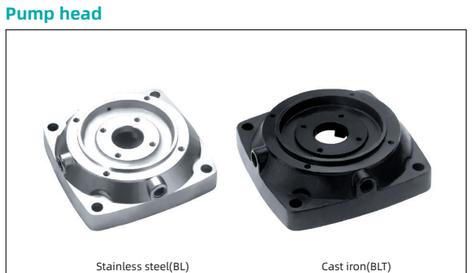
Pump base



Fluid director



Pump head



Motor base



Impeller



Horizontal Multi-Stage Centrifugal Pumps



BW



BWJ

Model Instruction

BW J 8 - 3 R

- R — Hot water type (Cold-water is not maked)
- 3 — Pump stage
- 8 — Rated flow (m^3/h)
- J — "J"for sectional type; No "J"for cylinder type
- BW — BW Light-type stainless steel horizontal multistage centrifugal pump

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℃ , hot water type 0 ~ +120℃
◎ Maximum ambient temperature: +40 ℃
◎ Maximum working 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: 6.5 to 8.5

Applications Fields

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

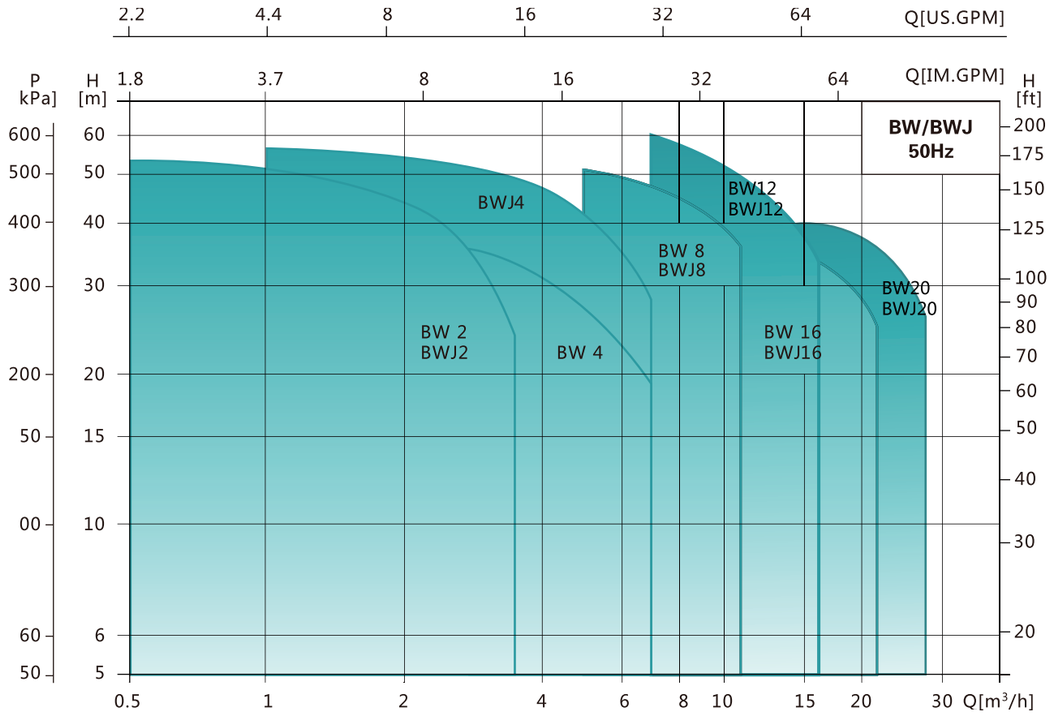
Certificate

CE

Optional Available On Request

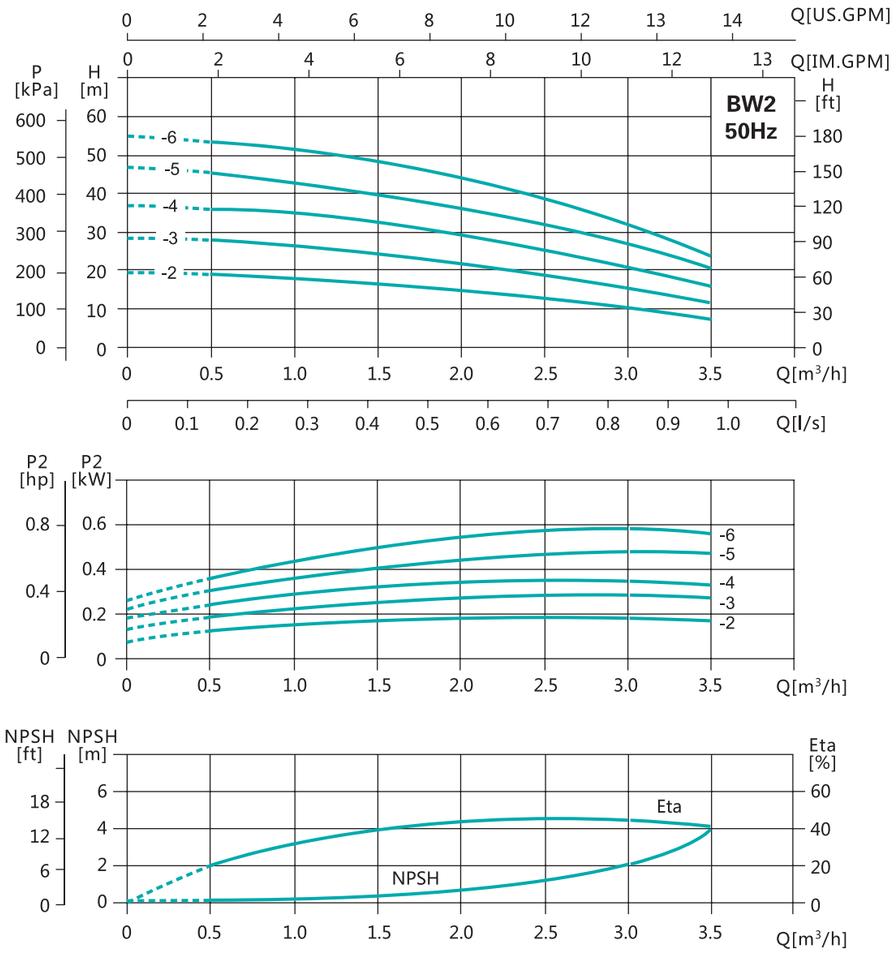
◎ Full-enclosed and ventilating two-pole standard motor
◎ Protection class: IP55
◎ Insulation class: F
◎ Standard voltage (50Hz): Single phase 220V Three phase:380V or 220/380V

Performance Range



Model	BW2/BWJ2	BW4/BWJ4	BW8	BW12	BW16	BWJ8	BWJ12	BWJ16	BW/BWJ20
Rated Flow(m^3/h)	2	4	8	12	16	8	12	16	20
Flow Range(m^3/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
Tamperature Range	Standard Type0~+68℃ Hot Water Type 0~+120℃								

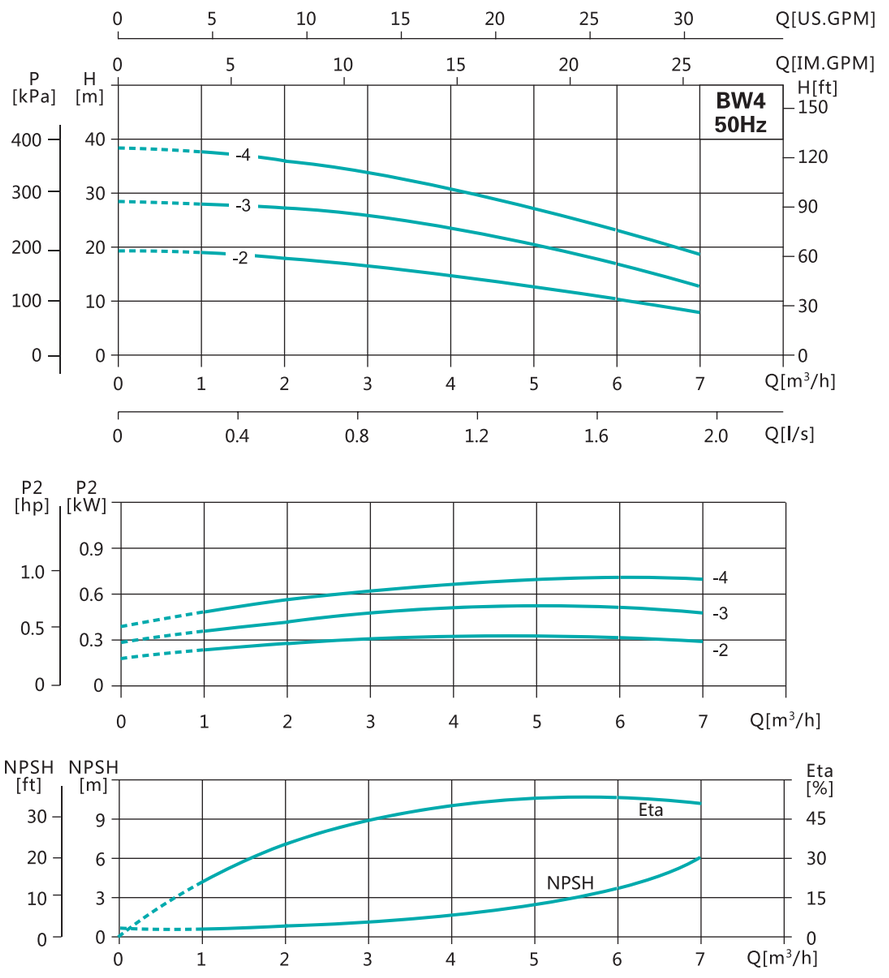
Performance Details-BW2



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	7.5~19
BW2-3	0.37	0.5		28	26.5	24.5	22	19	15.5	12	12~28
BW2-4	0.55	0.75		36	34.5	33	29	25	20.5	16	16~36
BW2-5	0.55	0.75		45.5	43	40	36	31.5	26.5	20.5	20.5~45.5
BW2-6	0.75	1		53.5	51	48	44	39	32	24	24~53.5

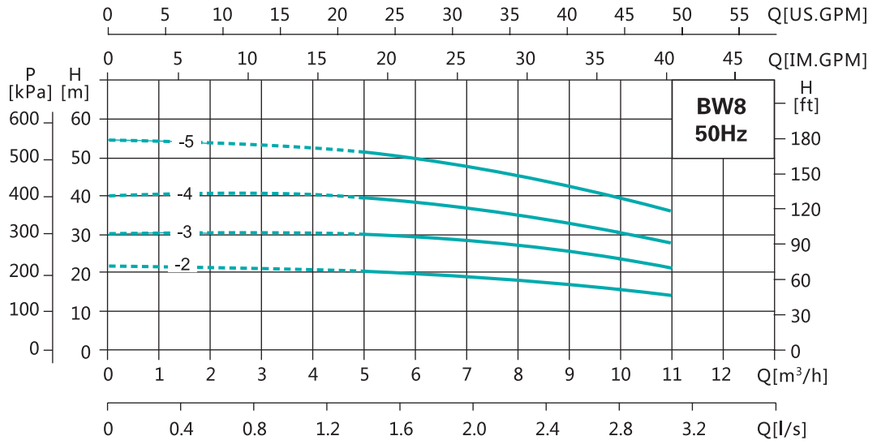
Performance Details-BW4

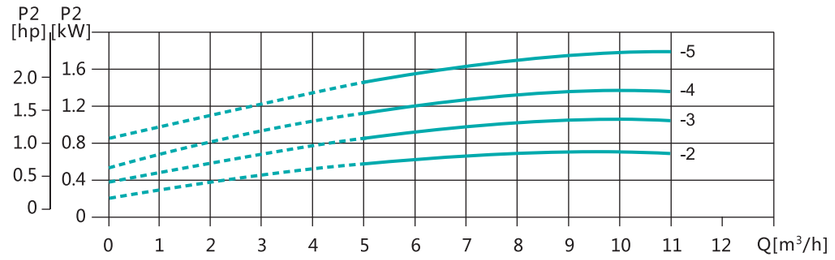


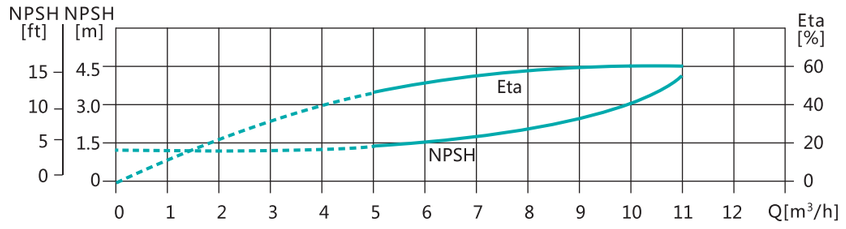
It is recommended to be used within lift range.

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	8~19
BW4-3	0.55	0.75		28	27	26	23.5	20.5	17	13	13~28
BW4-4	0.75	1		37.5	36	34	31	27	23	19	19~37.5

Performance Details-BW8



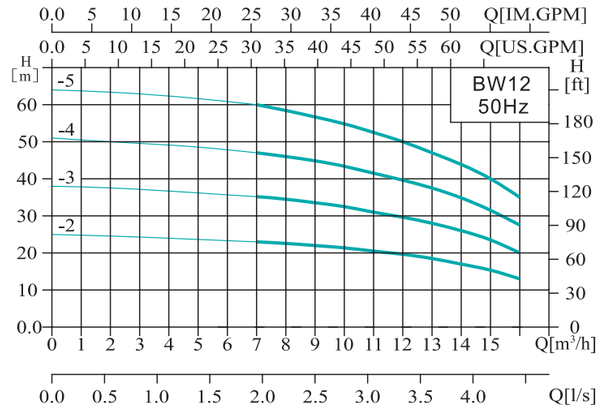


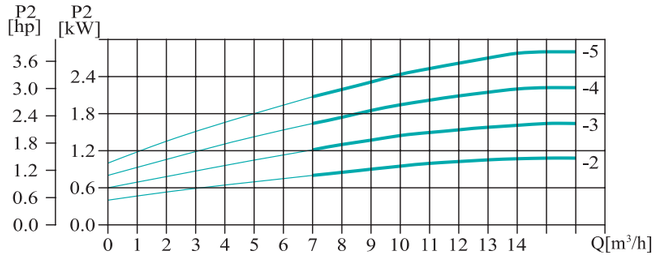


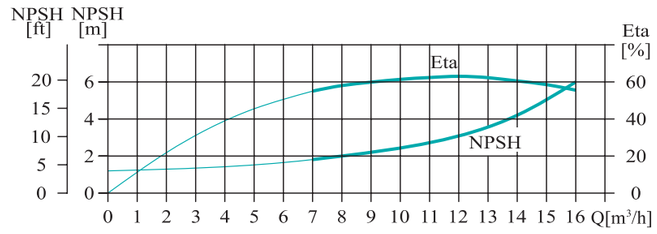
It is recommended to be used within lift range.

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

Performance Details-BW12

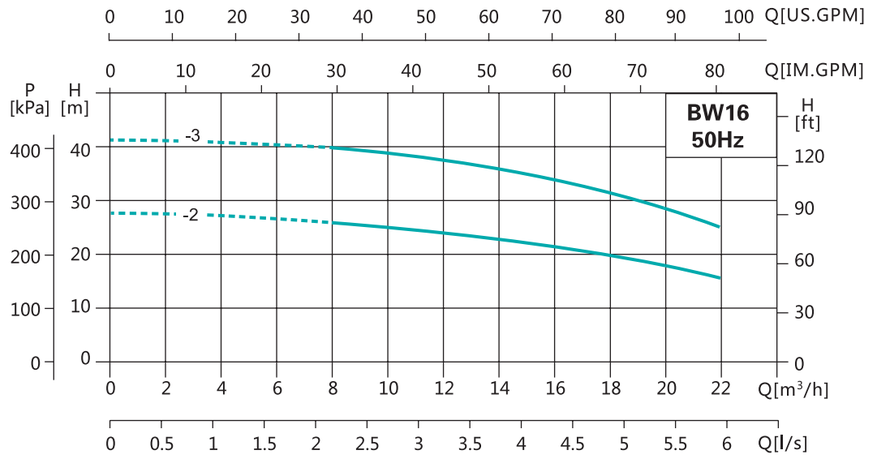


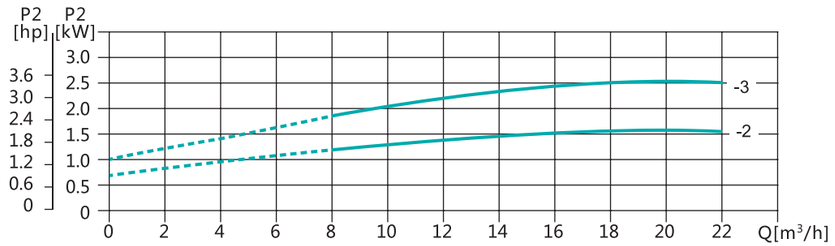


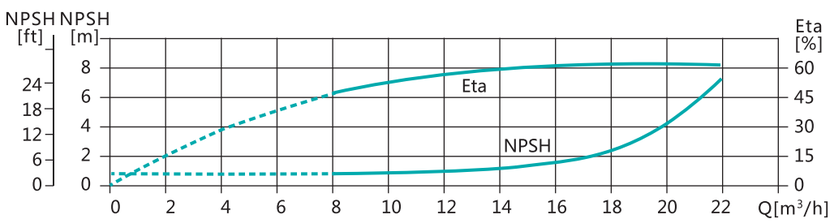


Model	Power		Q (m³/h)	7	8	10	12	14	15	16	Head Range (m)
	kW	HP									
BW12-2	1.2	1.6	H(m)	23.5	23	22	19.5	17	15	14	14~23.5
BW12-3	1.8	2.4		35.5	35	33	29.5	26	23	21	21~35.5
BW12-4	2.4	3.2		47	46	44	39.5	34	31	28	28~47
BW12-5	3	4.0		59.5	58	55	50	43	39	35	35~59.5

Performance Details-BW16



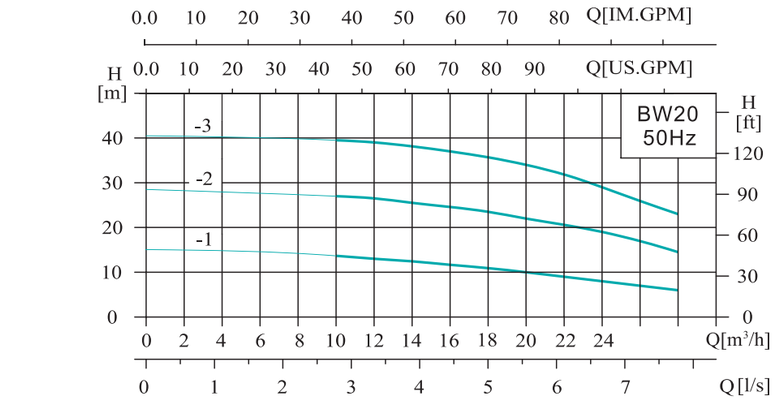


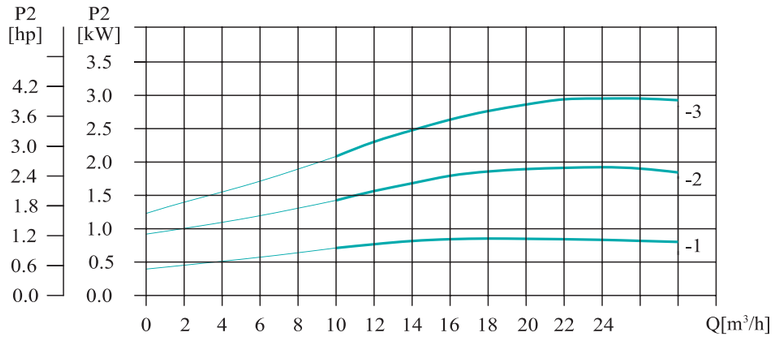


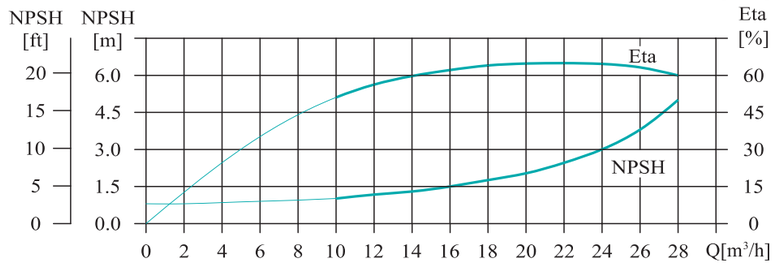
It is recommended to be used within lift range.

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	15.5~26
BW16-3	3	4		40	39	38	36	34	31.5	29	25	25~40

Performance Details-BW20



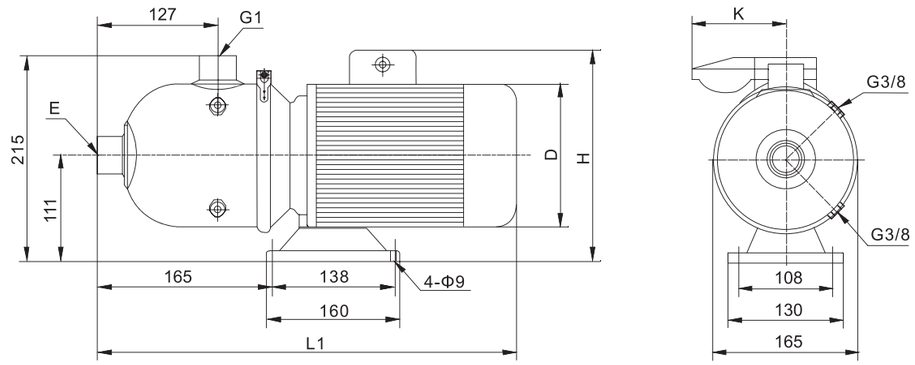




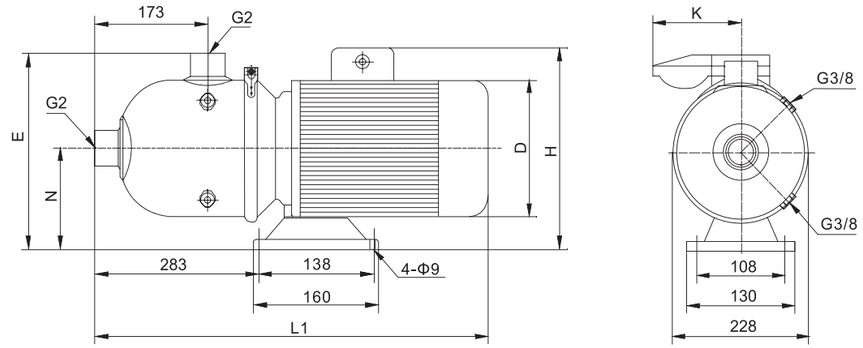
It is recommended to be used within lift range.

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	6~13.5
BW20-2	2.2	3		27	26.5	25.5	25	23.5	22	20.5	18.5	17	14.5	14.5~27
BW20-3	3.5	4.7		39.5	39	38	37.5	35.5	34	31.5	29	26	23	23~39.5

Dimensions & Weight

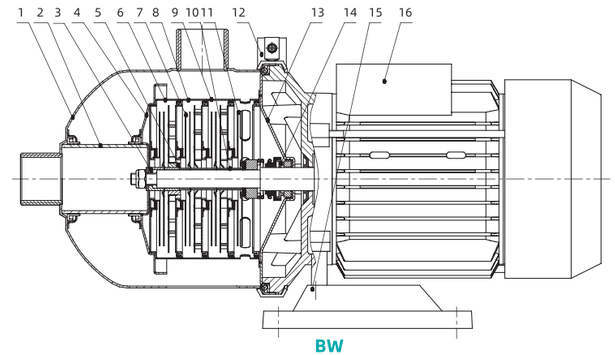


Model	Dim.(mm)					Weight (kg)
	L1	D	H	E	K	
BW2-2	402	137	215/230	G1	/96	9
BW2-3	402	137	215/230	G1	/100	10
BW2-4	402	137	215/230	G1	/100	11
BW2-5	402	137	215/230	G1	/100	12
BW2-6	419	156	225/245	G1	/100	14
BW4-2	404	137	215/230	G1 ¼	/100	10
BW4-3	404	137	215/230	G1 ¼	/100	12
BW4-4	426	156	225/245	G1 ¼	/100	14



Model	Dim.(mm)						Weight (kg)
	L1	E	N	D	H	K	
BW8-2	539	266	118	156	230/265	/100	13
BW8-3	539	266	118	156	230/265	/100	19
BW8-4	590	266	118	169	240/270	/100	23
BW8-5	590	266	118	169	240/270	/100	24
BW12-2	590	266	118	156	236	/100	20
BW12-3	590	266	118	169	246	/100	24
BW12-4	627	266	118	169	246	/100	28
BW12-5	627	266	118	194	263	/100	33
BW16-2	590	266	118	169	240/270	/100	25
BW16-3	627	278	130	194	270	/100	33
BW20-1	545	266	118	158	236	/100	17
BW20-2	567	266	118	170	246	/100	25
BW20-3	603	266	118	195	263	/100	32

Components & Materials



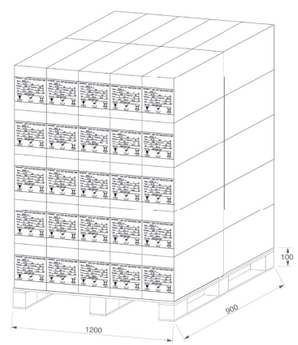
BW

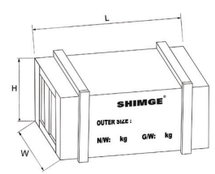
No.	Component	Material	AISI/ASTM
1	Pressure-resistant Component	SUS304	AISI304
2	Adapting Pipe	SUS304	AISI304
3	Lining	SUS304	AISI304
4	Platen Component	SUS304	AISI304
5	Bearing	YN20	-
6	Inlet Fluid Director	SUS304	AISI304
7	Impeller	SUS304	AISI304
8	Fluid Director With Bearings	SUS304	AISI304
9	Fluid Director	SUS304	AISI304
10	Round Bush	SUS304	AISI304
11	Outlet Fluid Director	SUS304	AISI304
12	Hooping Component	SUS304	AISI304
13	Front Cover Component	SUS304	AISI304
14	Mechanical Seal	Sic FPM	-
15	Base	Q235A	AISI1015
16	Motor	Horizontal Motor(Lengthening Shaft)	-

Packing Sizes & Weight

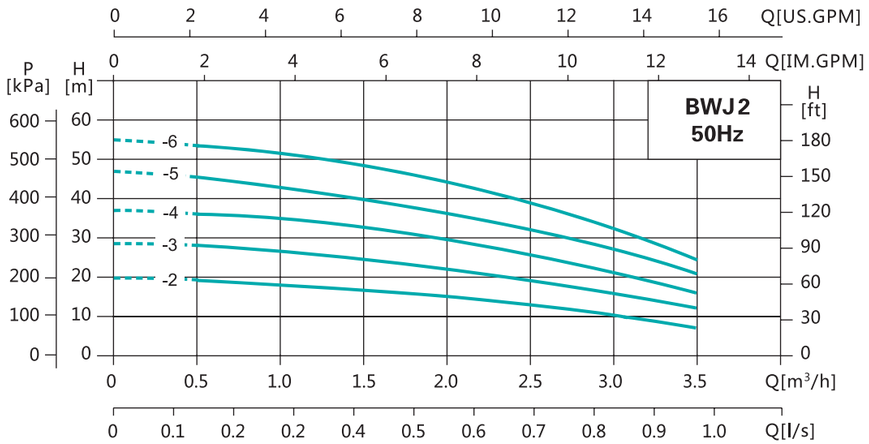
BW				
Model	Dim.(mm)			G.W. (kg)
	L	W	H	
BW2-2	450	245	305	10
BW2-3	450	245	305	11
BW2-4	450	245	305	12
BW2-5	450	245	305	13
BW2-6	450	245	305	15
BW4-2	450	245	305	11
BW4-3	450	245	305	13
BW4-4	450	245	305	15
BW8-2	635	280	330	15
BW8-3	635	280	330	21
BW8-4	635	280	330	25
BW8-5	635	280	330	26

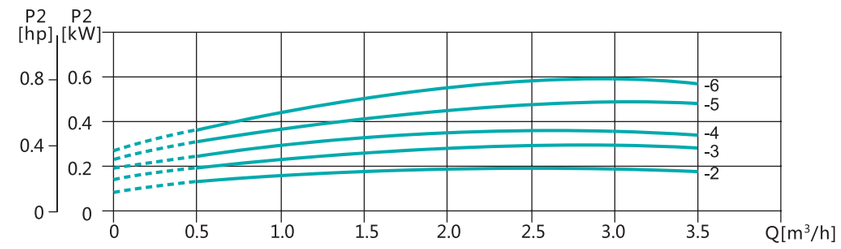
BW				
Model	Dim.(mm)			G.W. (kg)
	L	W	H	
BW12-2	635	280	330	22
BW12-3	635	280	330	26
BW12-4	635	280	330	30
BW12-5	635	280	330	35
BW16-2	635	280	330	27
BW16-3	635	280	330	35
BW20-1	635	280	330	19
BW20-2	635	280	330	27
BW20-3	635	280	330	34

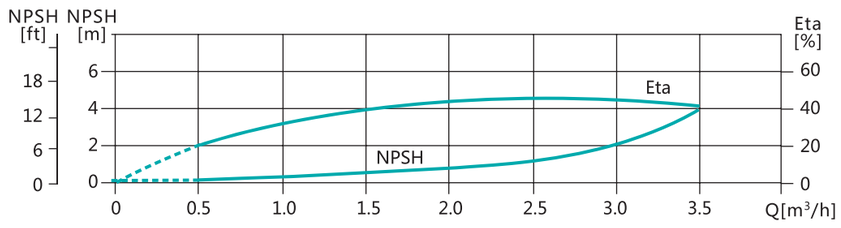




Performance Details-BWJ2



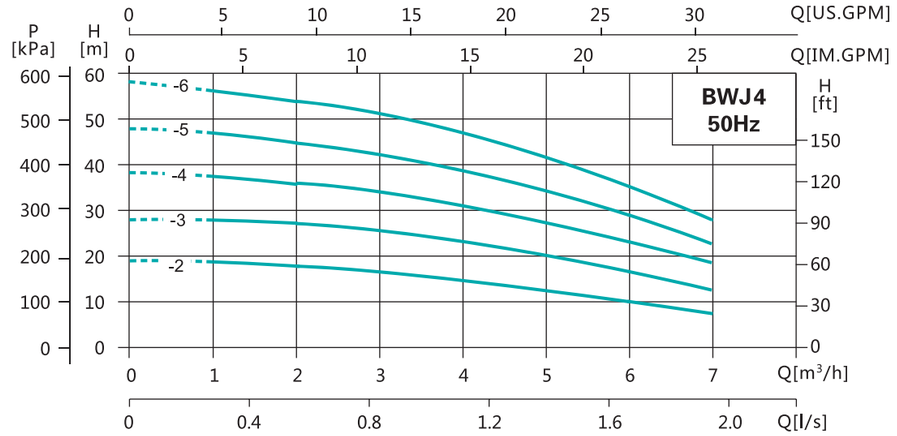


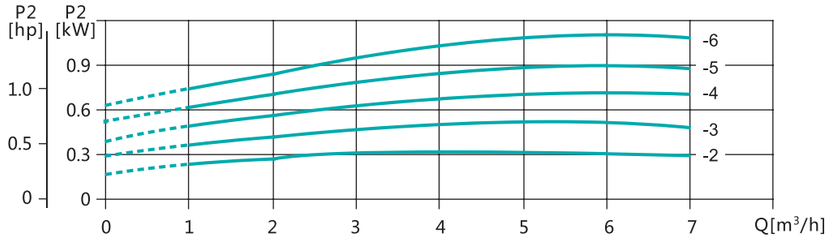


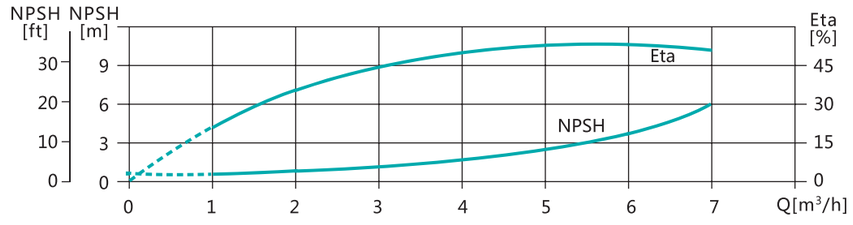
It is recommended to be used within lift range.

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	7.5~19
BWJ2-3	0.37	0.5		28	26.5	24.5	22	19	15.5	12	12~28
BWJ2-4	0.55	0.75		36	34.5	33	29	25	20.5	16	16~36
BWJ2-5	0.55	0.75		45.5	43	40	36	31.5	26.5	20.5	20.5~45.5
BWJ2-6	0.75	1		53.5	51	48	44	39	32	24	24~53.5

Performance Details-BWJ4



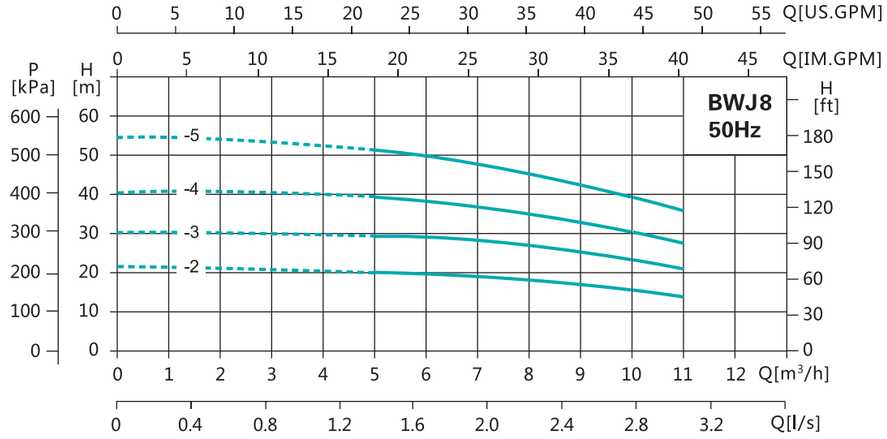


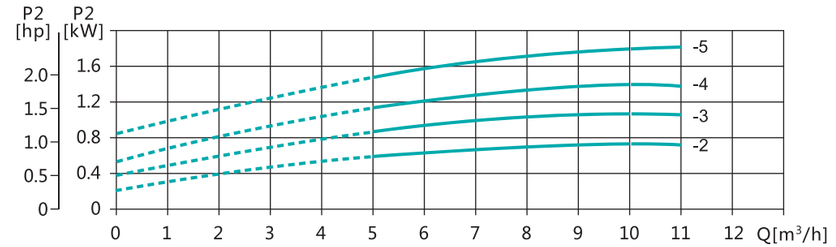


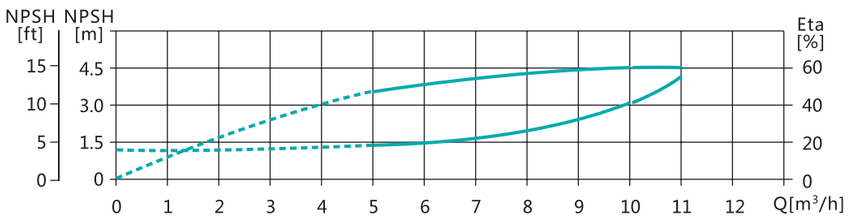
It is recommended to be used within lift range.

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	8~19
BWJ4-3	0.55	0.75		28	27	26	23.5	20.5	17	13	13~28
BWJ4-4	0.75	1		37.5	36	34	31	27	23	19	19~37.5
BWJ4-5	1.1	1.5		47	45	42.5	39	34	29	23	23~47
BWJ4-6	1.1	1.5		56	54	51	47	41.5	35.5	28	28~56

Performance Details-BWJ8



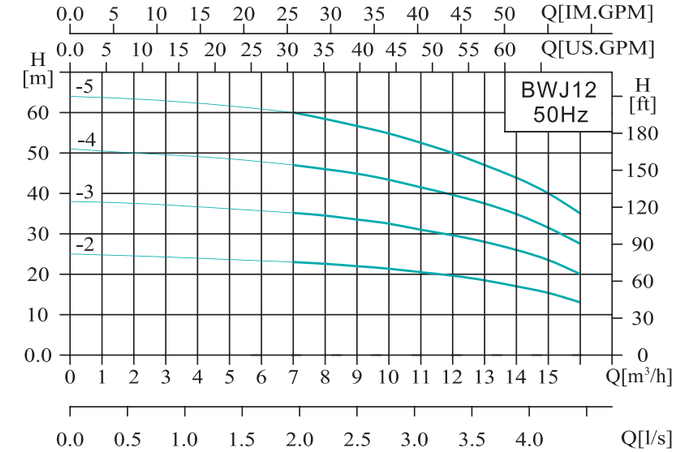


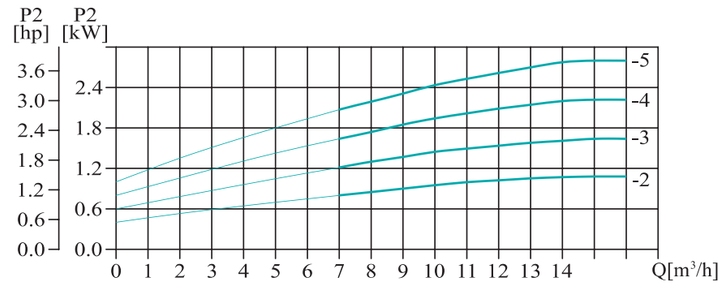


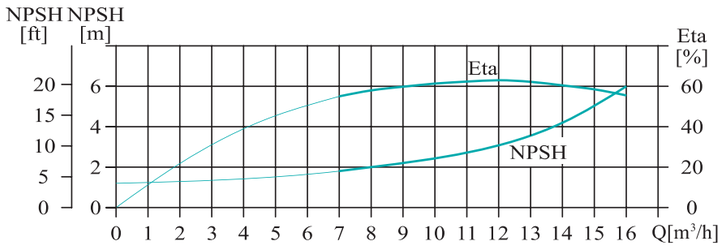
It is recommended to be used within lift range.

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	14~20
BWJ8-3	1.1	1.5		29.5	29	28	27	25	23	21	21~29.5
BWJ8-4	1.5	2		39	38	37	35	33	30.5	27.5	27.5~39
BWJ8-5	2.2	3		51	49.5	47.5	45	42.5	39.5	36	36~51

Performance Details-BWJ12



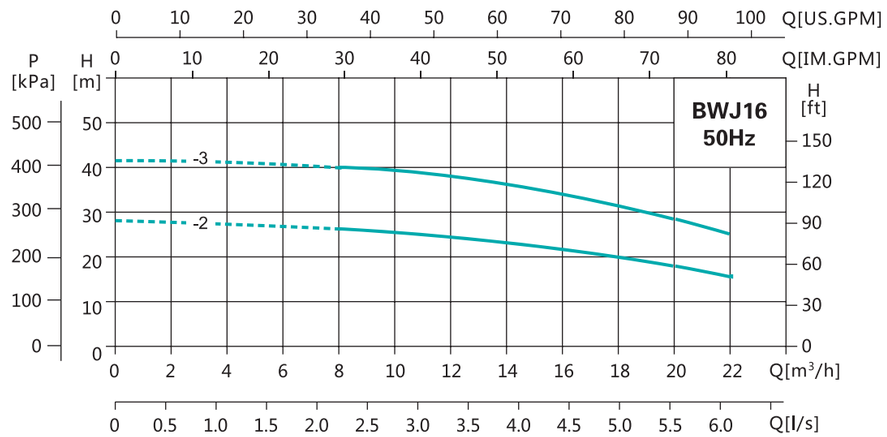


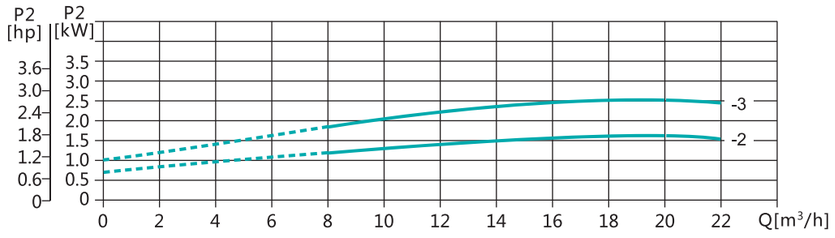


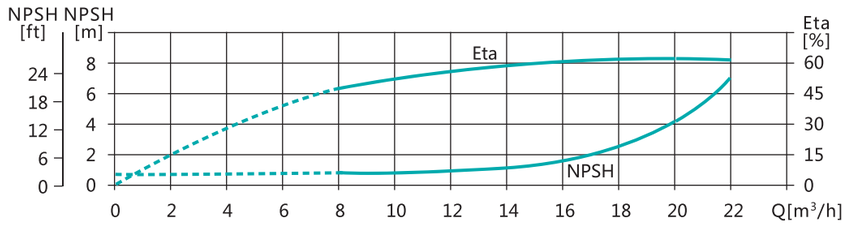
It is recommended to be used within lift range.

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	14~23.5
BWJ12-3	1.8	2.4		35.5	35	33	29.5	26	23	21	21~35.5
BWJ12-4	2.4	3.2		47	46	44	39.5	34	31	28	28~47
BWJ12-5	3	4.0		59.5	58	55	50	43	39	35	35~59.5

Performance Details-BWJ16



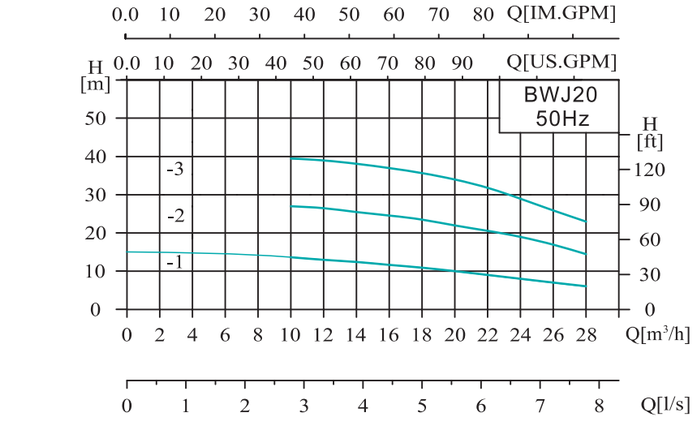


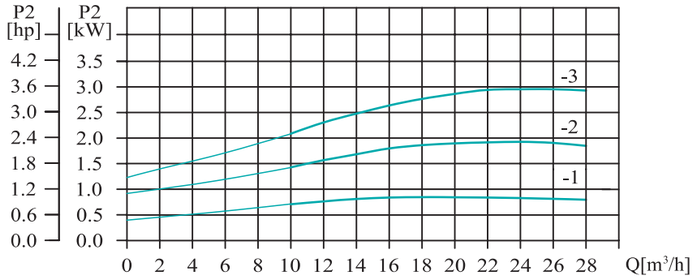


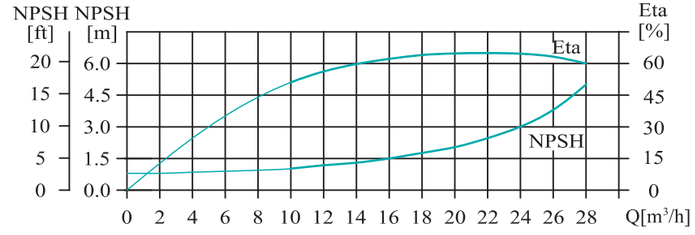
It is recommended to be used within lift range.

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	15.5~26
BWJ16-3	3	4		40	39	38	36	34	31.5	29	25	25~40

Performance Details-BWJ20



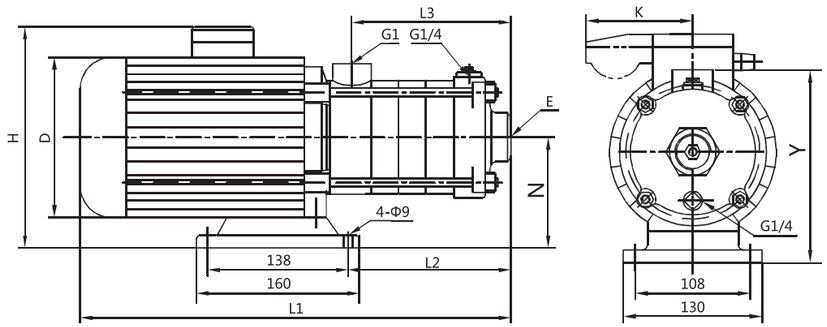




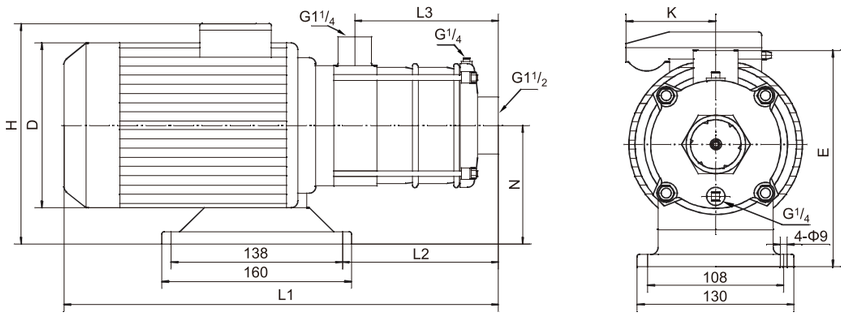
It is recommended to be used within lift range.

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	6~13.5
BWJ20-2	2.2	3		27	26.5	25.5	25	23.5	22	20.5	18.5	17	14.5	14.5~27
BWJ20-3	3.5	4.7		39.5	39	38	37.5	35.5	34	31.5	29	26	23	23~39.5

Dimensions & Weight

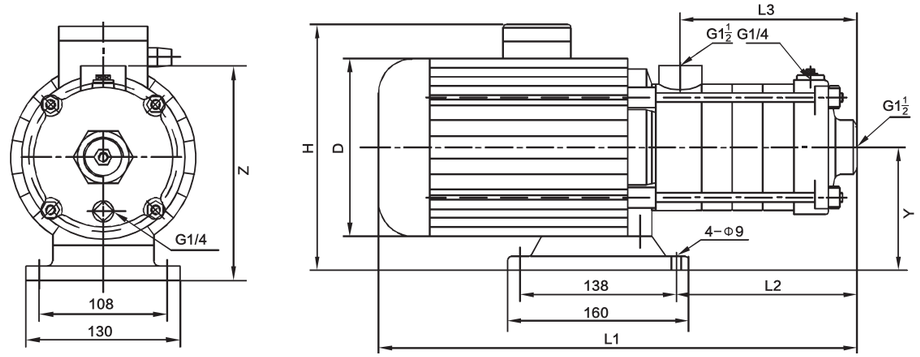


Model	Dim.(mm)									Weight (kg)
	L1	L2	L3	D	E	N	Y	H	K	
BWJ2-2	317	77	88	137	G1	100	172	215/230	-	9
BWJ2-3	335	95	106	137	G1	100	172	215/230	-	10
BWJ2-4	353	113	124	137	G1	100	172	215/230	-	11
BWJ2-5	371	131	142	137	G1	100	172	215/230	-	11
BWJ2-6	414	151	160	156	G1	111	180	225/245	/100	16
BWJ4-2	335	95	105	137	G11/4	100	172	215/230	-	10
BWJ4-3	362	122	133	137	G11/4	100	172	215/230	-	11
BWJ4-4	413	151	160	156	G11/4	111	180	225/245	/100	14
BWJ4-5	440	178	187	156	G11/4	111	180	225/245	/100	18
BWJ4-6	467	232	214	156	G11/4	111	180	225/245	/100	18

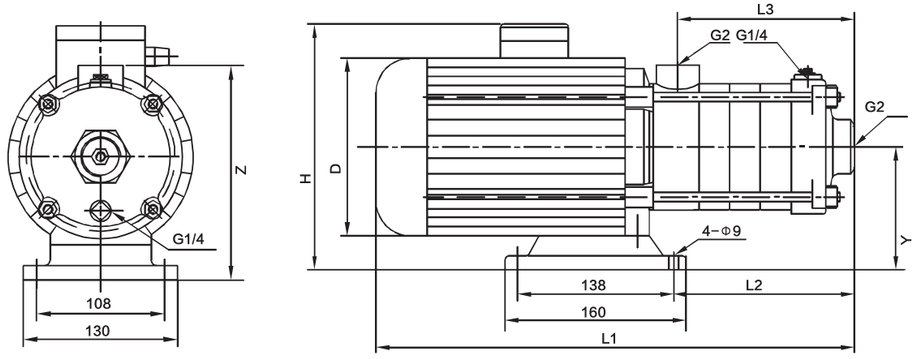


Model	Dim.(mm)								Weight (kg)
	L1	L2	L3	H	D	E	N	K	
BWJ8-2	376	111	107	230/265	156	201	114	/100	18
BWJ8-3	406	141	137	230/265	156	201	114	/100	20
BWJ8-4	503	171	167	240/270	169	206	118	/100	25
BWJ8-5	533	201	197	240/270	169	206	118	/100	27
BWJ16-2	467	125	122	240/270	169	206	118	/100	23
BWJ16-3	524	171	167	270	194	218	130	-	29

Dimensions & Weight

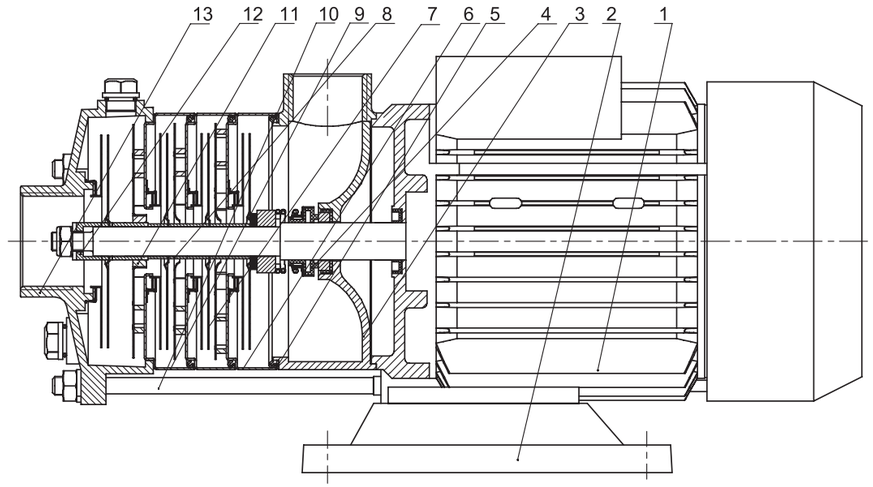


Model	Dim.(mm)								Weight (kg)
	L1	L2	L3	D	H	X	Y	Z	
BWJ12-2	443	113	109	169	246	219	118	206	20
BWJ12-3	475	150	141	169	246	219	118	206	24
BWJ12-4	520	182	173	194	275	223	130	218	28
BWJ12-5	552	214	205	194	275	235	130	218	33



Model	Dim.(mm)								Weight (kg)
	L1	L2	L3	D	H	X	Y	Z	
BWJ20-1	425	117	85	158	230	219	118	218	18
BWJ20-2	475	162	130	170	232	223	118	218	23
BWJ20-3	535	207	175	195	262	235	130	218	33

Components & Materials

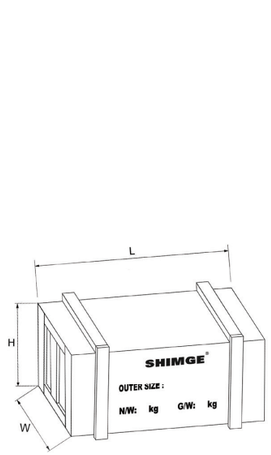


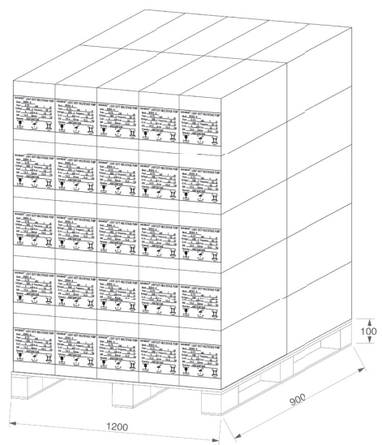
BWJ

No.	Component	Material	AISI/ASTM
1	Motor	Horizontal Motor(Lengthening Shaft)	-
2	Base	Q235A	AISI1015
3	Water Outlet Shell	SUS304	AISI304
4	Mechanical Seal	Sic FPM	-
5	Sealing Gasket	NBR	-
6	Fluid Director	SUS304	AISI304
7	Impeller	SUS304	AISI304
8	Long Casing Bush	SUS304	AISI304
9	Fluid Director With Bearings	SUS304	AISI304
10	Pull-rod	Steel 45#	-
11	Bearing	YN20	-
12	Lining	SUS304	AISI304
13	Water Inlet Shell	SUS304	AISI304

Packing Sizes & Weight

BWJ				
Model	Dim.(mm)			G.W.(kg)
	L	W	H	
BWJ2-2	390	245	305	10
BWJ2-3	390	245	305	11
BWJ2-4	390	245	305	12
BWJ2-5	390	245	305	12
BWJ2-6	550	245	305	18
BWJ4-2	390	245	305	11
BWJ4-3	390	245	305	12
BWJ4-4	550	245	305	16
BWJ4-5	550	245	305	20
BWJ4-6	550	245	305	20
BWJ8-2	635	280	330	20
BWJ8-3	635	280	330	22
BWJ8-4	635	280	330	27
BWJ8-5	635	280	330	29
BWJ12-2	635	280	330	22
BWJ12-3	635	280	330	26
BWJ12-4	635	280	330	30
BWJ12-5	635	280	330	35
BWJ16-2	635	280	330	25
BWJ16-3	635	280	330	31
BWJ20-1	635	280	330	20
BWJ20-2	635	280	330	25
BWJ20-3	635	280	330	35





Fully integrated pump variable frequency pump



BWE



BLE

Model Instruction

BW (J) E 2 - 6

- 6 — Number of stages of pump
- 2 — Single-pump capacity (m^3/h)
- E — Code of fully-integrated intelligent variable-frequency series
- BW (J) — Water pump model: BL (T)-Vertical/BW-Horizontal/BWJ-Sectional

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

CE

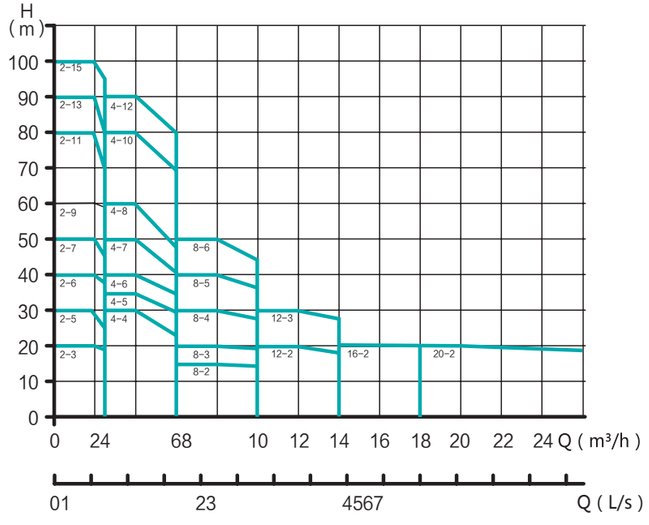
Functions

◎ 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

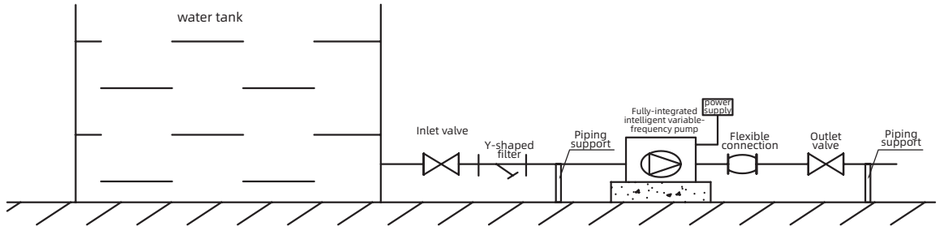
◎ The automatic identification module senses the pressure of the system via a pressure sensor and compares it with the set pressure, and then outputs a continuous analog signal to the frequency converter which changes the operating frequency of the motor on the basis of the change of the analog signal, 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

Number	Model	Input voltage	Setting range of constant pressure values kg/cm²	Factory-set constant pressure value (rated pressure) kg/cm²	Inlet diameter	Outlet diameter	Single-pump power kW	Maximum lift (zero flow) m	Rated flow m³/h	Volume of pressure tank(L)
A01	BWE2-6	1ΦAC220V	0.5-4	4	G1	G1	0.75	56	2	3
A02	BWE4-4	1ΦAC220V	0.5-3	3	G1	G1	0.75	38	4	3
A03	BWE8-2	1ΦAC220V	0.5-1.5	1.5	G2	G2	0.75	22	8	5
A04	BWE8-3	1ΦAC220V	0.5-2	2	G2	G2	1.1	32	8	5
A05	BWE8-4	1ΦAC220V	0.5-3	3	G2	G2	1.5	43	8	5
A06	BWE8-5	1ΦAC220V	0.5-4	4	G2	G2	2.2	54	8	5
A07	BWE16-2	1ΦAC220V	0.5-2	2	G2	G2	2.2	27	16	5
A08	BWJE2-6	1ΦAC220V	0.5-4	4	G1	G1	0.75	56	2	3
A09	BWJE4-4	1ΦAC220V	0.5-3	3	G1	G1	0.75	38	4	3
A10	BWJE4-5	1ΦAC220V	0.5-3.5	3.5	G1	G1	1.1	47	4	3
A11	BWJE4-6	1ΦAC220V	0.5-4.5	4.5	G1	G1	1.1	57	4	3
A12	BWJE8-2	1ΦAC220V	0.5-1.5	1.5	G1	G1	0.75	22	8	5
A13	BWJE8-3	1ΦAC220V	0.5-2	2	G1	G1	1.1	32	8	5
A14	BWJE8-4	1ΦAC220V	0.5-3	3	G1	G1	1.5	43	8	5
A15	BWJE8-5	1ΦAC220V	0.5-4	4	G1	G1	2.2	54	8	5
A16	BWJE16-2	1ΦAC220V	0.5-2	2	G1	G1	2.2	27	16	5
B01	BL(T)E2-6	1ΦAC220V	0.5-4	4	G1	G1	0.75	58	2	3
B02	BL(T)E2-7	1ΦAC220V	0.5-5	5	G1	G1	0.75	68	2	3
B03	BL(T)E2-9	1ΦAC220V	0.5-6	6	G1	G1	1.1	87	2	5
B04	BL(T)E2-11	1ΦAC220V	0.5-8	8	G1	G1	1.1	106	2	5
B05	BL(T)E2-13	1ΦAC220V	0.5-9	9	G1	G1	1.5	124	2	5
B06	BL(T)E2-15	1ΦAC220V	0.5-10	10	G1	G1	1.5	138	2	5
B07	BL(T)E4-4	1ΦAC220V	0.5-3	3	G1	G1	0.75	38	4	3
B08	BL(T)E4-5	1ΦAC220V	0.5-3.5	3.5	G1	G1	1.1	47	4	3
B09	BL(T)E4-6	1ΦAC220V	0.5-4	4	G1	G1	1.1	58	4	3
B10	BL(T)E4-7	1ΦAC220V	0.5-5	5	G1	G1	1.5	69	4	3
B11	BL(T)E4-8	1ΦAC220V	0.5-6	6	G1	G1	1.5	78	4	5
B12	BL(T)E4-10	1ΦAC220V	0.5-8	8	G1	G1	2.2	96	4	5
B13	BL(T)E4-12	1ΦAC220V	0.5-9	9	G1	G1	2.2	117	4	5
B14	BL(T)E8-2	1ΦAC220V	0.5-1.5	1.5	DN40	DN40	0.75	22	8	5
B15	BL(T)E8-3	1ΦAC220V	0.5-2	2	DN40	DN40	1.1	32	8	5
B16	BL(T)E8-4	1ΦAC220V	0.5-3	3	DN40	DN40	1.5	42	8	5
B17	BL(T)E8-5	1ΦAC220V	0.5-4	4	DN40	DN40	2.2	53	8	5
B18	BL(T)E8-6	1ΦAC220V	0.5-5	5	DN40	DN40	2.2	62	8	5
B19	BL(T)E12-2	1ΦAC220V	0.5-2	2	DN50	DN50	1.5	26	12	5
B20	BL(T)E12-3	1ΦAC220V	0.5-3	3	DN50	DN50	2.2	38	12	5
B21	BL(T)E16-2	1ΦAC220V	0.5-2	2	DN50	DN50	2.2	28	16	5
B22	BL(T)E20-2	1ΦAC220V	0.5-2	2	DN50	DN50	2.2	30	20	14

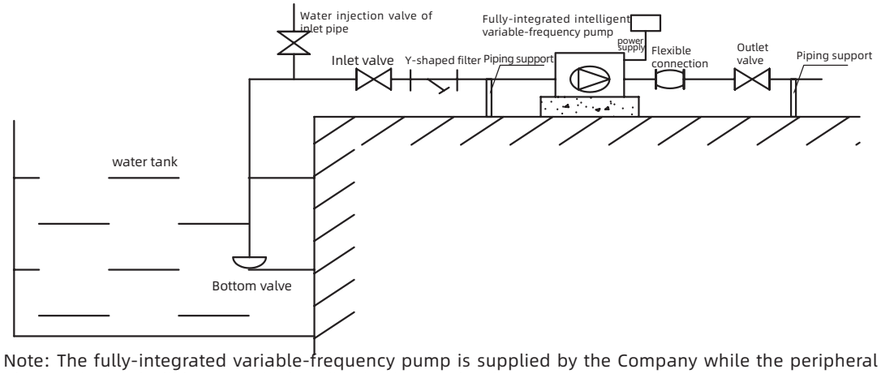
Installation Diagram

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 ~ 0.0 70
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	0.0 50 ~ 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) ≈ 1/100*(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 ≈ 1/100* (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 ≈ 1kg/cm2 =0.1Mpa; 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	L1	B	H	H1	N.W (kg)	G.W (kg)	Sketch map
BWE2-6	419	165	165	540	111	19	21.5	1
BWE4-4	426	165	165	540	111	19	21.5	1
BWE8-2	539	283	283	610	118	18.5	22.3	1
BWE8-3	539	283	283	610	118	24.5	28.3	1
BWE8-4	590	283	283	610	118	28.5	32.3	1
BWE8-5	590	283	283	610	118	32.5	36.3	1
BWE16-2	590	283	283	610	118	31.5	35.3	1

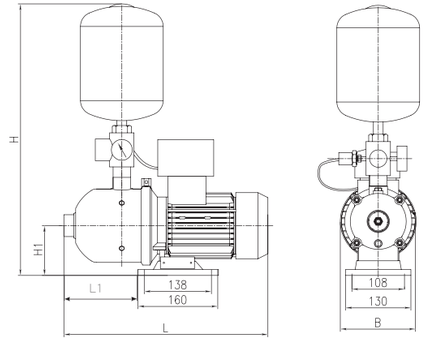


Figure 1

Model	L	L1	B	H	H1	N.W (kg)	G.W (kg)	Sketch map
BWJE2-6	414	151	151	540	111	20.3	22.8	2
BWJE4-4	413	151	151	540	111	19	21.5	2
BWJE4-5	440	178	178	540	111	22.3	25	2
BWJE4-6	467	232	232	540	111	23	25.5	2
BWJE8-2	376	111	111	600	114	22.9	26.7	2
BWJE8-3	406	141	141	600	114	25	28.8	2
BWJE8-4	503	171	171	600	118	29.5	33.3	2
BWJE8-5	533	201	201	600	118	32.1	35.9	2
BWJE16-2	467	125	125	600	118	34.1	37.9	2

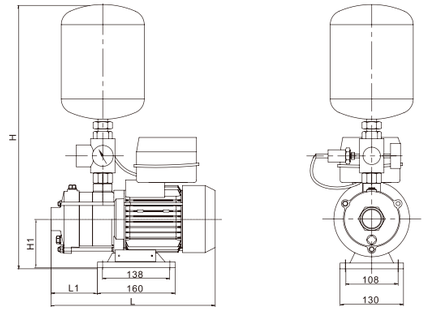


Figure 2

Model	L	L1	L2	B	B1	H	H1	N.W(kg)		G.W(kg)		Sketch map
								BL	BLT	BL	BLT	
BL(T)E2-6	610	550	100	320	280	625	105	37	43	52	58	3
BL(T)E2-7	610	550	100	320	280	643	105	37	43	52	58	3
BL(T)E2-9	610	550	100	320	280	679	105	40	46	57	63	3
BL(T)E2-11	610	550	100	320	280	715	105	41	47	58	64	3
BL(T)E2-13	610	550	100	320	280	809	105	44	51	63	70	3
BL(T)E2-15	610	550	100	320	280	845	105	45	51	64	70	3
BL(T)E4-4	610	550	100	320	280	625	105	37	44	52	59	3
BL(T)E4-5	610	550	100	320	280	652	105	39	46	54	61	3
BL(T)E4-6	610	550	100	320	280	679	105	40	47	57	64	3
BL(T)E4-7	610	550	100	320	280	764	105	43	51	61	69	3
BL(T)E4-8	610	550	100	320	280	791	105	44	51	62	69	3
BL(T)E4-10	610	550	100	320	280	845	105	48	55	66	73	3
BL(T)E4-12	610	550	100	320	280	899	105	49	57	69	77	3

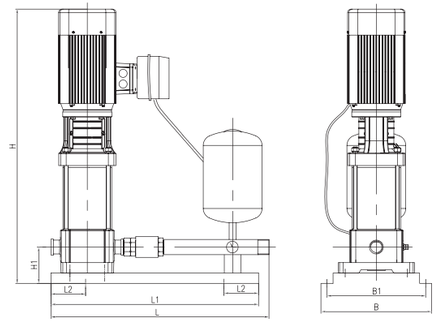


Figure 3

Model	L	L1	L2	B	B1	H	H1	N.W(kg)		G.W(kg)		Sketch map
								BL	BLT	BL	BLT	
BL(T)E8-2	780	730	100	350	310	650	110	53	63	72	82	4
BL(T)E8-3	780	730	100	350	310	680	110	55	65	74	84	4
BL(T)E8-4	780	730	100	350	310	760	110	59	69	80	90	4
BL(T)E8-5	780	730	100	350	310	790	110	63	73	84	94	4
BL(T)E8-6	780	730	100	350	310	820	110	64	74	85	95	4
BL(T)E12-2	800	750	100	350	310	713	120	59	69	80	90	4
BL(T)E12-3	800	750	100	350	310	745	120	62	72	83	93	4
BL(T)E16-2	800	750	100	350	310	740	120	62	73	83	94	4
BL(T)E20-2	800	750	100	350	310	740	120	64	74	85	95	4

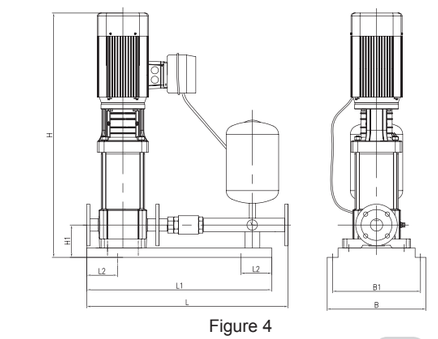


Figure 4

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	800×330×870
BL(T)E4-8	
BL(T)E4-10	
BL(T)E4-12	800×330×920
BL(T)E8-2	900×360×720
BL(T)E8-3	
BL(T)E8-4	900×360×870
BL(T)E8-5	
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

PL (D) 2 - 2

- Number of pump stages
- Rated flow
- Single phase (three phase not marked)
- Vertical multistage centrifugal pump

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;

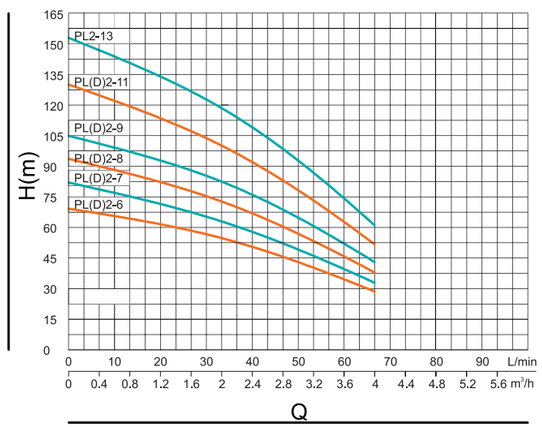
Applications

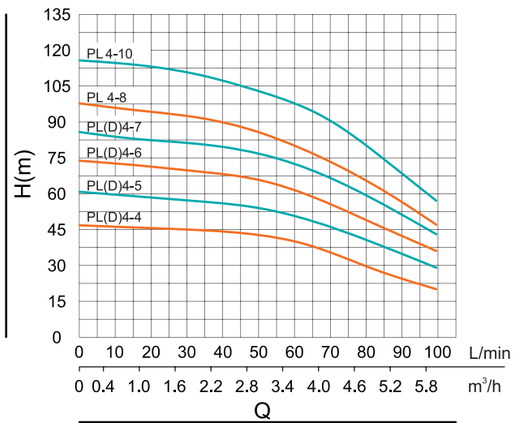
The product has the characteristics of high cost-effective， high pressure and low noise,etc.PL(D) are widely used in many fields,such as water supply system and water filtration and boost systemn for pipeling,washing and cleaning ,boiler feed water,cooling water circulation,water treatment,ultra-filtration,reveser 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 level: IP 55;
◎ Insulation class: F.

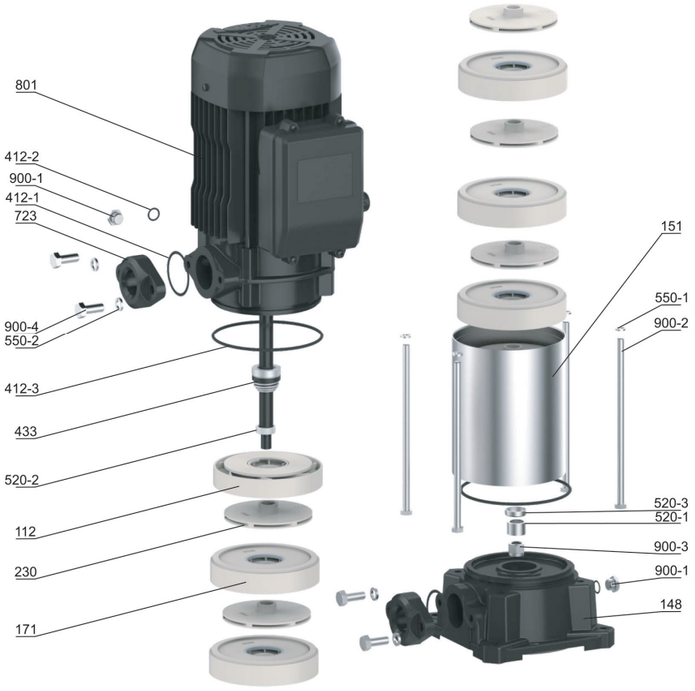
Performance curve





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	2.5		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	2.5		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

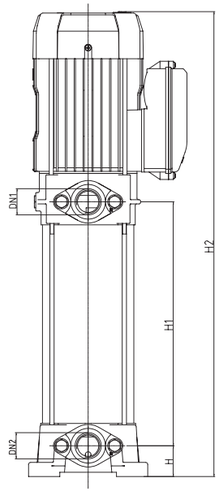
Components & Materials

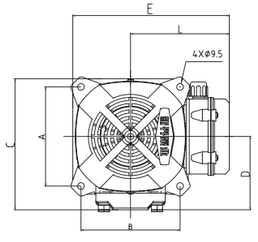


No.	Component	Material
112	Last stage guide vane	PPO
148	Pump seat	HT200
151	Pump barrel	304
171	Guide vane	PPO
230	impeller	PPO
412-1	O-ring	NBR
412-2	O-ring	NBR
412-3	O-ring	NBR
433	Machinery Seal	S:K(PC)
520-1	Wear-resistant bushing	20Cr13(420)
520-2	Shaft sleeve	304
520-3	Plastic Bearing	Composite plastic
550-1	Standard spring washer	65Mn
550-2	Spring washer	304
723	Inlet pipe	HT200
801	Motor	Assembly
900-1	Vent cock	304
900-2	Hexagon head bolts	Q235A
900-3	Hexagon lock nuts with non-metallic inserts	304
900-4	Hexagon head bolts full thread	Q235A

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	130.5	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						

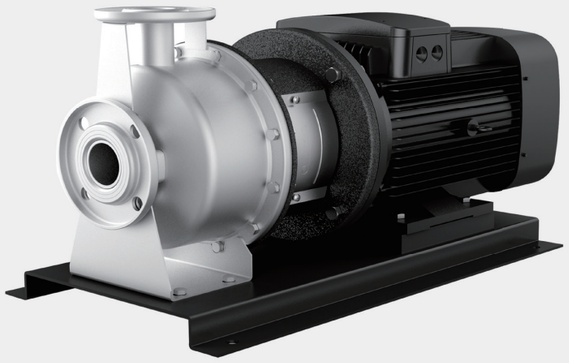




Packing Sizes & Weight

Model	Dim.(mm)(L*W*H)	N.W.(kg)	G.W.(kg)
PL2-6	595×240×270	21	21.5
PLD2-6		22	22.5
PL2-7	620×240×270	21.5	22
PLD2-7		22.5	23
PL2-8	645×240×270	23	23.5
PLD2-8		24.5	25
PL2-9	670×240×270	23.5	24
PLD2-9		25	25.5
PL2-11	715×240×270	25.5	26
PLD2-11		27	27.5
PL2-13	765×240×270	28	28.5
PL4-4	545×240×270	20	20.5
PLD4-4		21	21.5
PL4-5	570×240×270	22	22.5
PLD4-5		23	23.5
PL4-6	595×240×270	22	22.5
PLD4-6		23.5	24
PL4-7	620×240×270	24	24.5
PLD4-7		25.5	26
PL4-8	645×240×270	26	26.5
PL4-10	695×240×270	26.5	27

YS Series Stainless Steel Single Stage Centrifugal Pump



YS

Model Instruction

YS 65 - 50 - 200 / 11.0

- 11.0 — Motor power (kW)
- 200 — Nominal diameter of impeller (mm)
- 50 — Diameter of outlet (mm)
- 65 — Diameter of inlet (mm)
- YS — Stainless steel horizontal single stage centrifugal pump

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 working 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

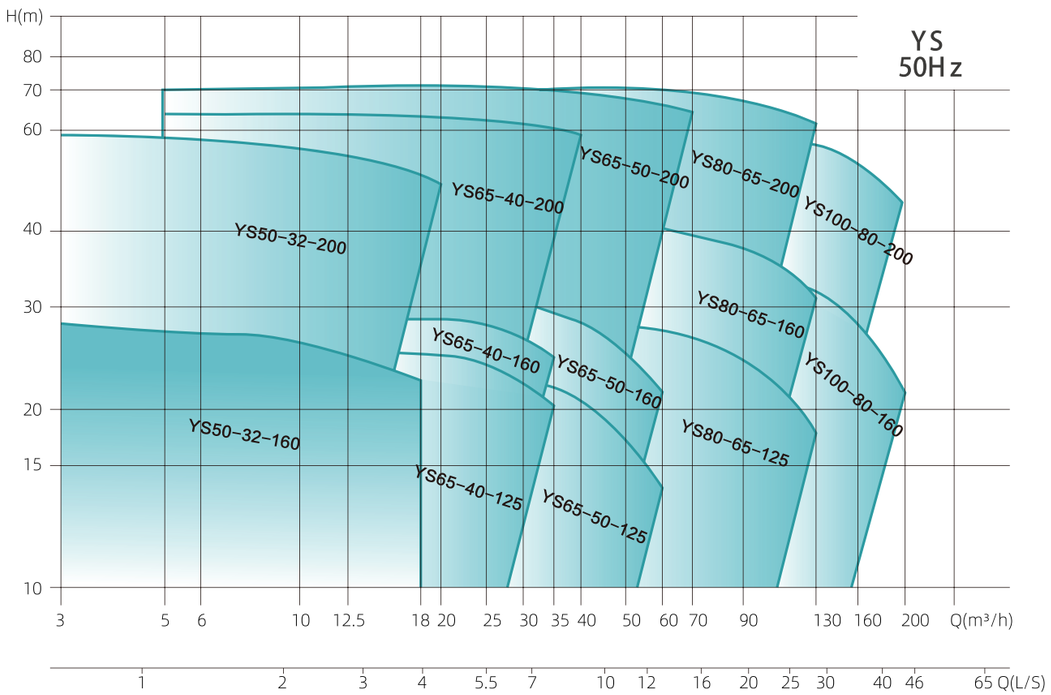
The international popular modular design is adopted to reduce the unnecessary parts and components, guarantee the universality of parts, and facilitate purchasing, manufacturing and maintenance.

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



Spectrum Diagram

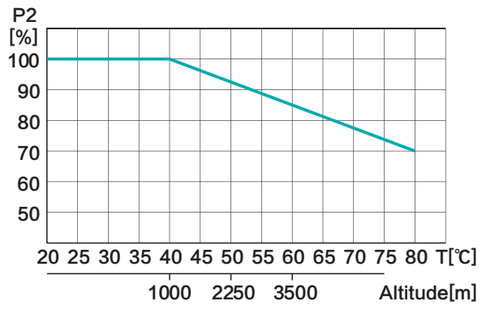
No.	Model	Flow rate (m^3/h)	Lift (m)	Rotating speed (r/min)	Standard motor voltage [V]	
					1×220V P_2 [kW]	3×380V P_2 [kW]
1	YS50-32-160/1.5	12.5	20	3000	/	1.5
2	YS50-32-160/2.2	12.5	25		/	2.2
3	YS50-32-200/3	12.5	32		/	3
4	YS50-32-200/4	12.5	42		/	4
5	YS50-32-200/5.5	12.5	54		/	5.5
6	YS65-40-125/1.5	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		/	7.5
12	YS65-40-200/11	25	62		/	11
13	YS65-50-125/3	50	13		/	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		/	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		/	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		/	15
26	YS80-65-200/18.5	100	45		/	18.5
27	YS80-65-200/22	100	53		/	22
28	YS80-65-200/30	100	66		/	30
29	YS100-80-160/11	160	15		/	11
30	YS100-80-160/15	160	22		/	15
31	YS100-80-160/18.5	160	28		/	18.5
32	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 thistemperature, 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

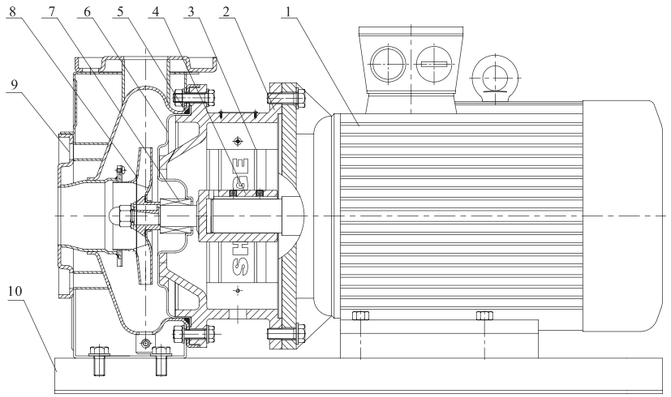
IE3 Three-phase Motor

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

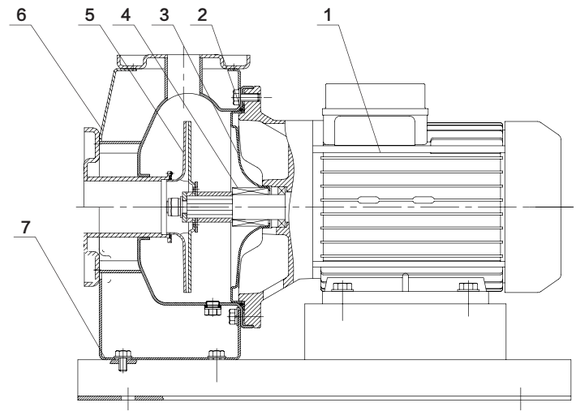
The product has two structures: integral structure for 1.5kW~4kW, and separated structure for 5.5kW and above; the separated structure is mainly composed of the five core components: pump body, impeller, pump cover, pump shaft, and motor, the motor is separable from the pump, the pump part is designed 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
1	Motor	/
2	Pump cover	HT200
3	Protective plate	304
4	Pump shaft	304+45#
5	Rubber part	NBR
6	Baffle	304
7	Mechanical seal	FPM
8	Impeller	304
9	Pump body	304
10	Base	Q235A



■ Integral structure

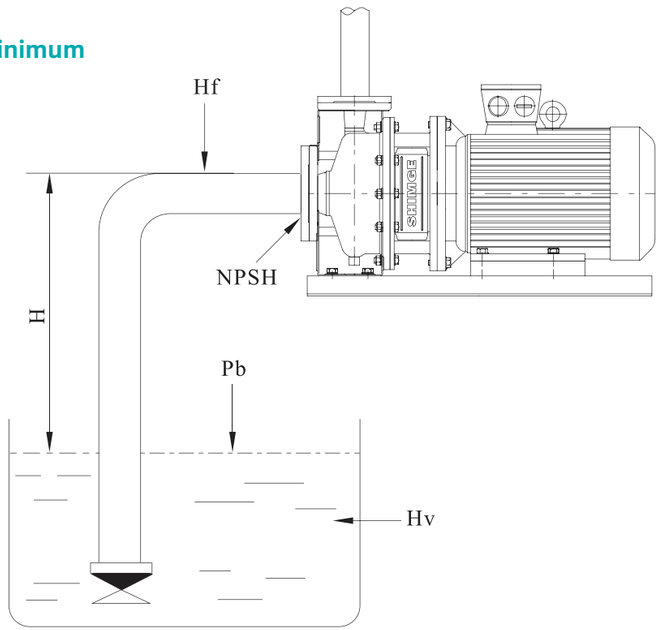
No.	Component	Material
1	Motor	/
2	Rubber part	NBR
3	Baffle	304
4	Mechanical seal	FPM
5	Impeller	304
6	Pump body	304
7	Base	Q235A

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=Pb × 10.2-NPSH-Hf -Hv -Hs

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);

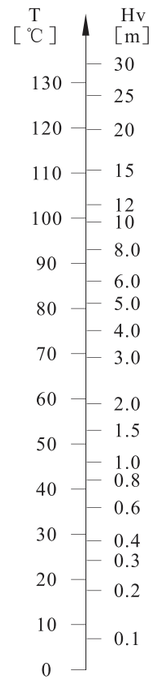
Hs: Safety margin, unit: m, usually it takes 0.5m.

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

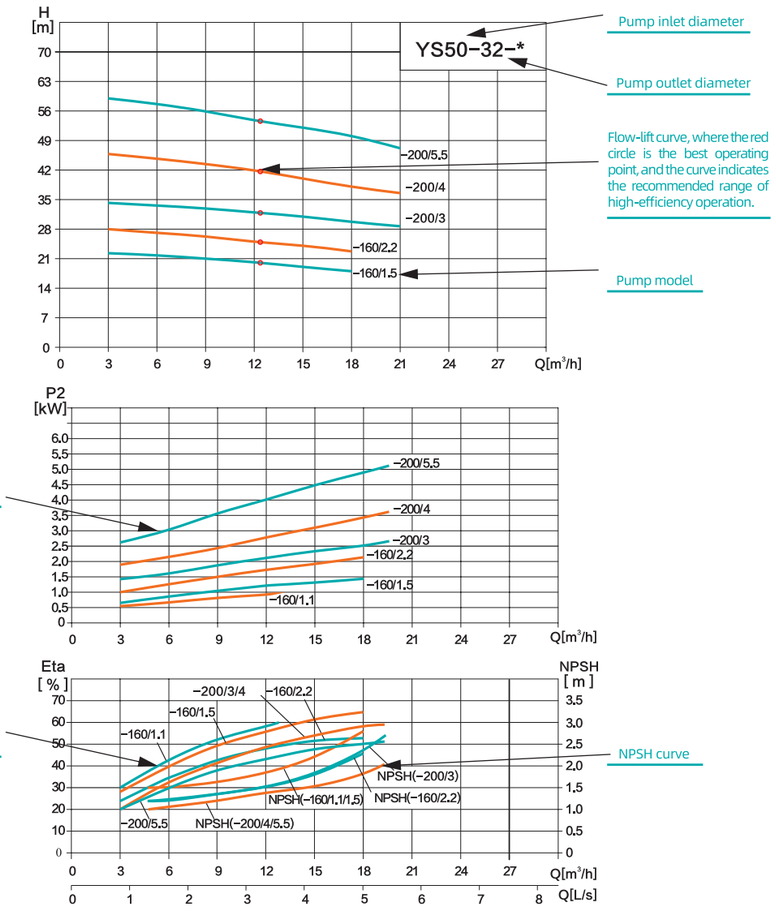
If the "H" value is negative, the pump can operate normally when the minimum inlet pressure reaches the pressure head of "H" m.

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



Pump inlet diameter

Pump outlet diameter

Flow-lift curve, where the red circle is the best operating point, and the curve indicates the recommended range of high-efficiency operation.

Pump model

Flow-power curve, where each model corresponds to a curve.

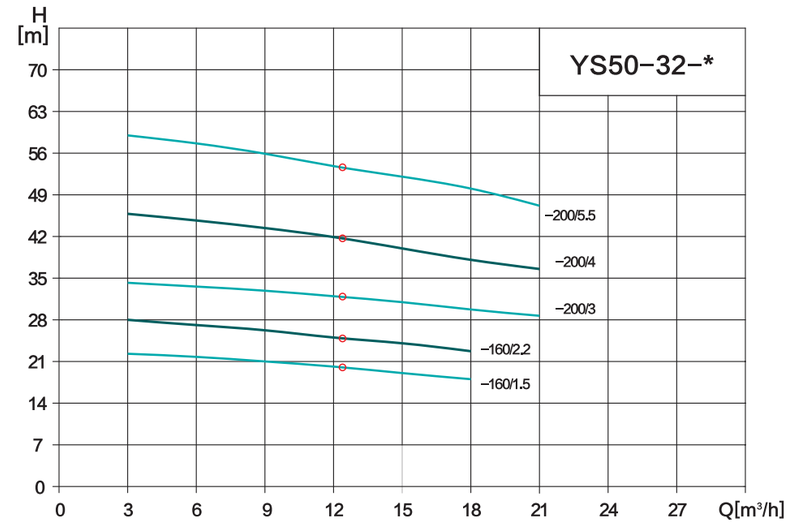
Pump efficiency curve

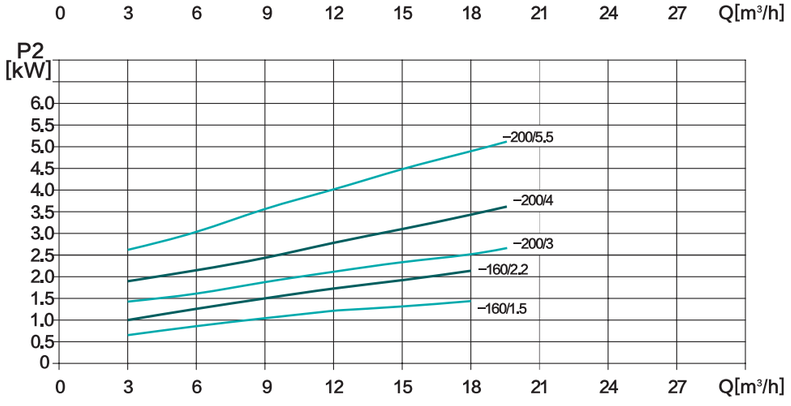
NPSH curve

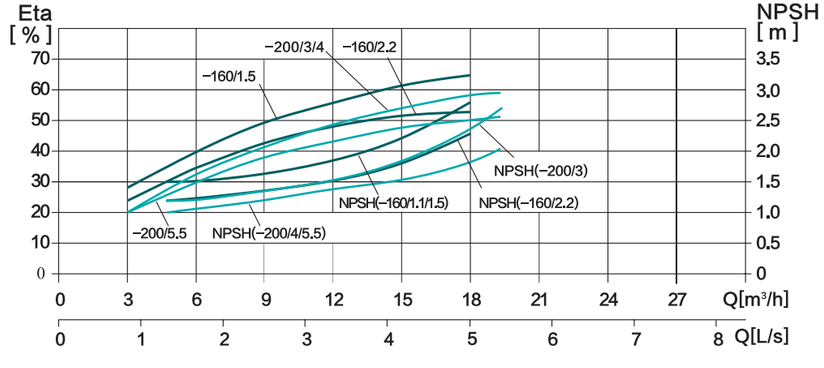
■ Applicable Principles of Performance Curves

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 Y=1mm/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-*

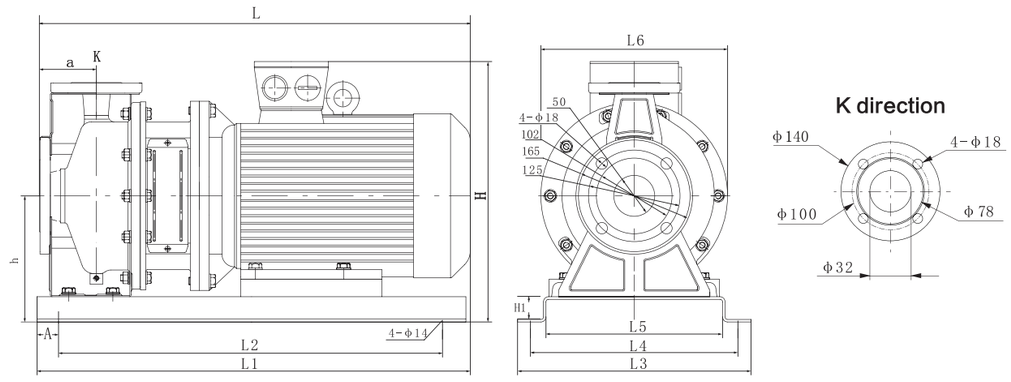






Performance Table

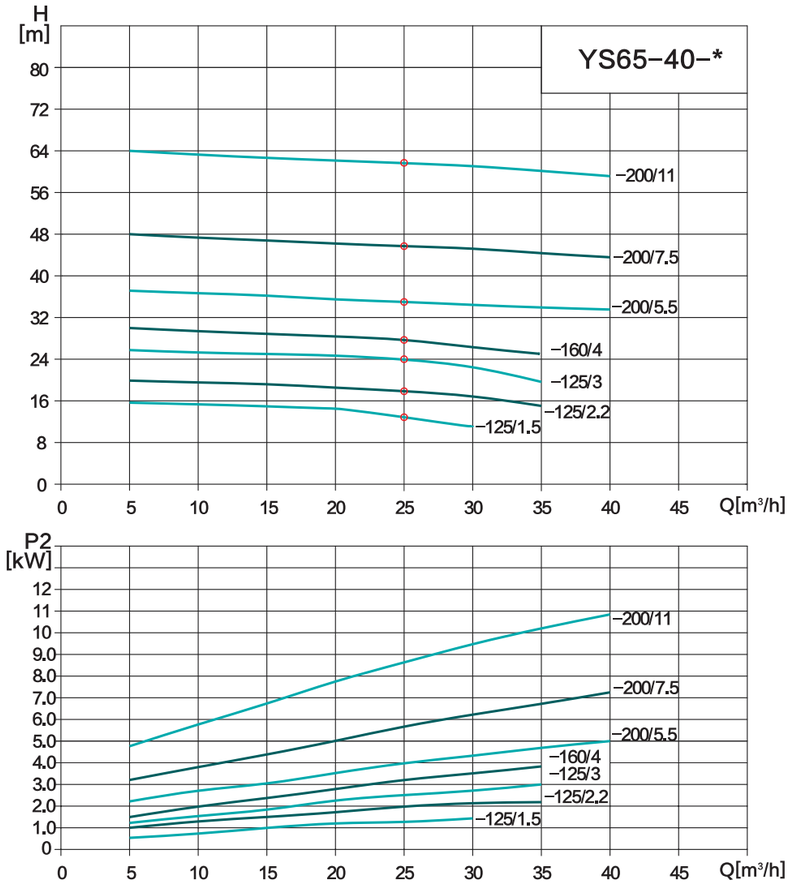
Model	Power	Q (m³/h)	3	6.3	9	15	18	20
YS50-32-160/1.5	1.5	H(m)	22.5	22	21	19	18	/
YS50-32-160/2.2	2.2		28	27	26.3	24	22.5	/
YS50-32-200/3	3		34.9	34.1	33.3	31	29.8	28.9
YS50-32-200/4	4		45.7	44.8	43.7	40.7	39	37.7
YS50-32-200/5.5	5.5		58.5	57.2	56	52.5	50	48.5



Dimensions and Weight

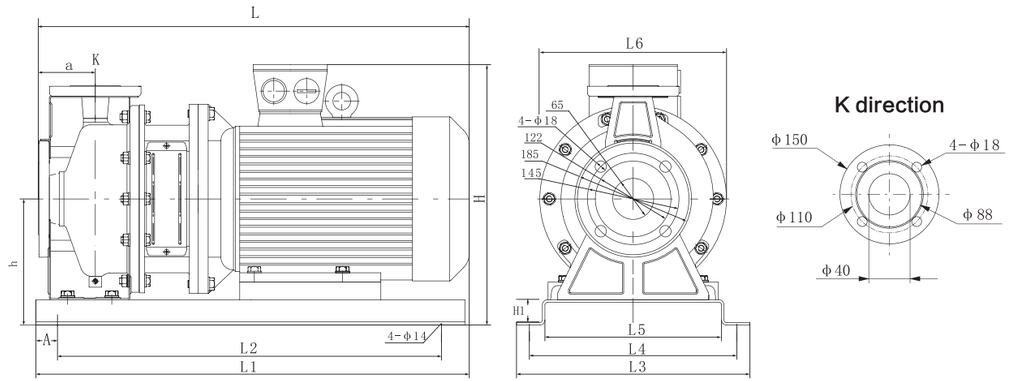
Pump model	Dimensions												Weight (kg)
	A	a	H	H1	h	L	L1	L2	L3	L4	L5	L6	
YS50-32-160/1.5	37	82	296	20	152	503	500	430	280	240	192	210	27
YS50-32-160/2.2	37	82	296	20	152	503	500	430	280	240	192	210	29
YS50-32-200/3	40	82	386	40	200	538	530	460	330	290	242	300	43
YS50-32-200/4	35	82	386	40	200	558	550	460	330	290	242	300	48
YS50-32-200/5.5	32	82	498	40	200	769	660	580	370	330	282	300	77

YS65-40-*



Performance Table

Model	Power	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

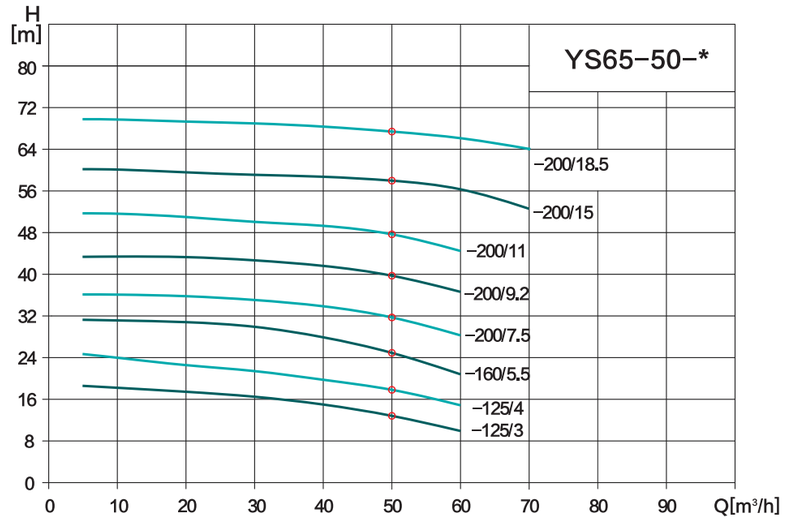


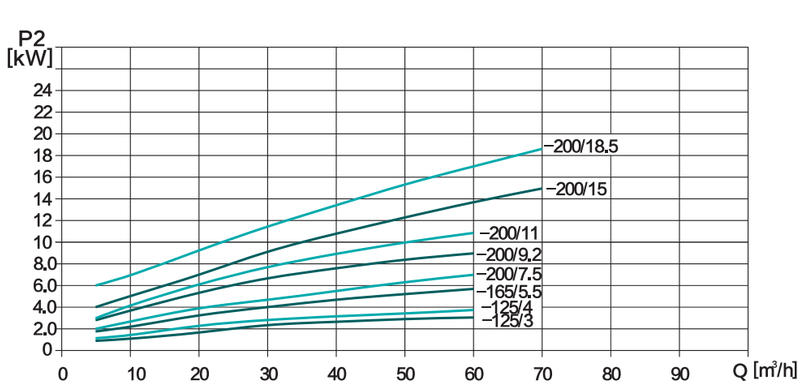
Dimensions and Weight

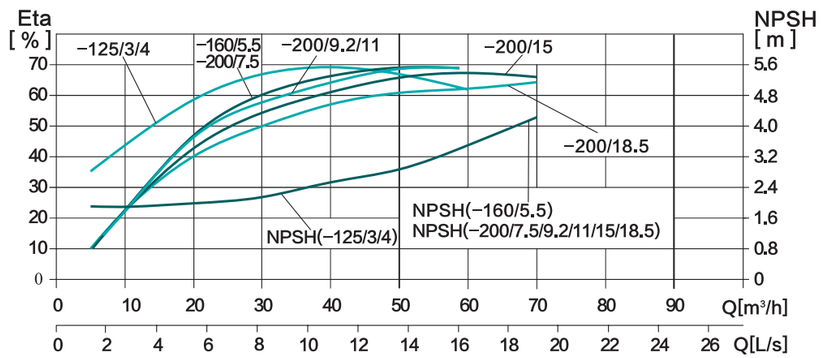
Pump model	Dimensions												Weight (kg)
	A	a	H	H1	h	L	L1	L2	L3	L4	L5	L6	
YS65-40-125/1.5	37	82	294	40	152	503	500	430	280	240	192	210	23
YS65-40-125/2.2	37	82	267	40	152	503	500	430	280	240	192	210	25
YS65-40-125/3	37	82	267	40	152	533	530	460	300	260	212	250	37
YS65-40-160/4	37	82	267	40	152	553	550	480	330	290	242	250	42
YS65-40-200/5.5	50	100	498	40	200	784	660	580	370	330	282	300	78
YS65-40-200/7.5	50	100	498	40	200	784	660	580	370	330	282	300	82
YS65-40-200/11	50	100	540	40	200	963	770	690	420	380	332	350	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-*

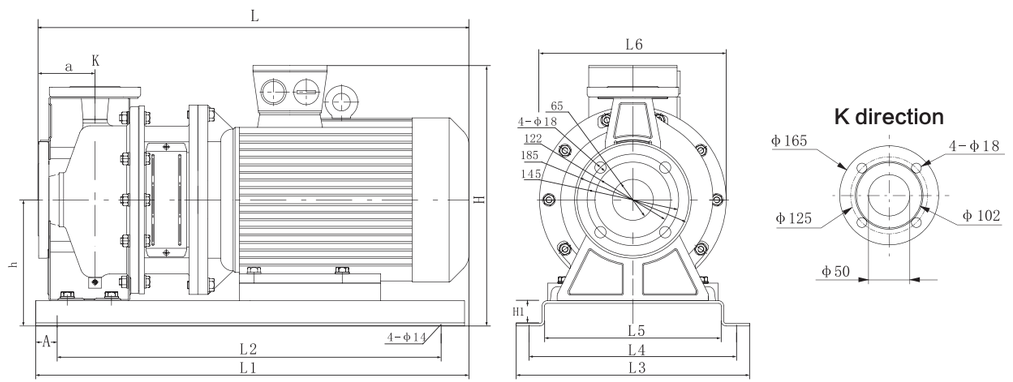






Performance Table

Model	Power	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

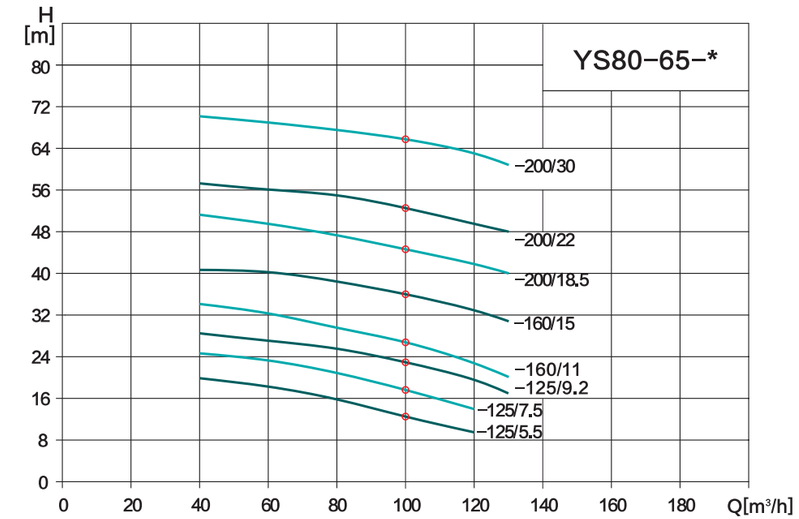


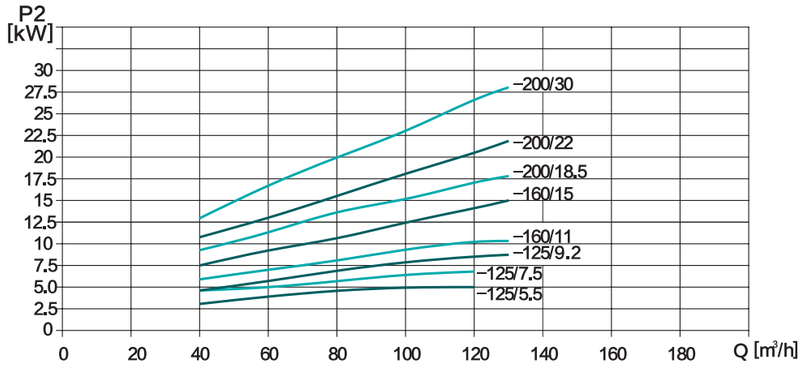
Dimensions and Weight

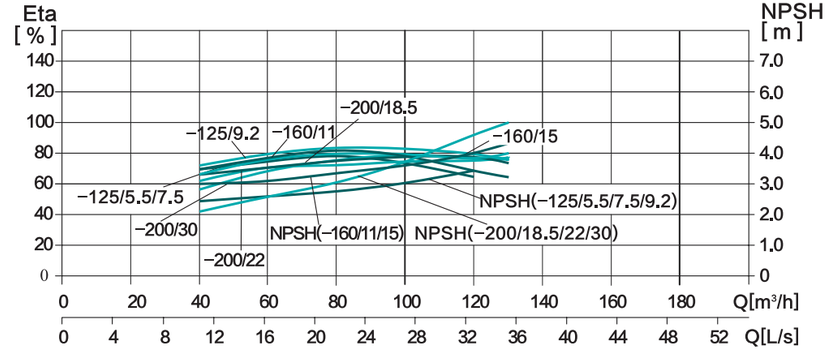
Pump model	Dimensions												Weight (kg)
	A	a	H	H1	h	L	L1	L2	L3	L4	L5	L6	
YS65-50-125/3	41	86	338	40	200	533	530	468	330	290	262	250	39
YS65-50-125/4	41	86	338	40	200	553	550	490	330	290	262	250	44
YS65-50-160/5.5	50	100	498	40	200	784	660	580	370	330	282	300	78
YS65-50-200/7.5	50	100	498	40	200	784	660	580	370	330	282	300	82
YS65-50-200/9.2	50	100	540	40	200	963	660	580	370	330	282	300	85
YS65-50-200/11	50	100	540	40	200	963	770	690	420	380	332	350	161
YS65-50-200/15	50	100	540	40	200	963	770	690	420	380	332	350	171
YS65-50-200/18.5	50	100	540	40	200	963	810	730	420	380	332	350	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-*

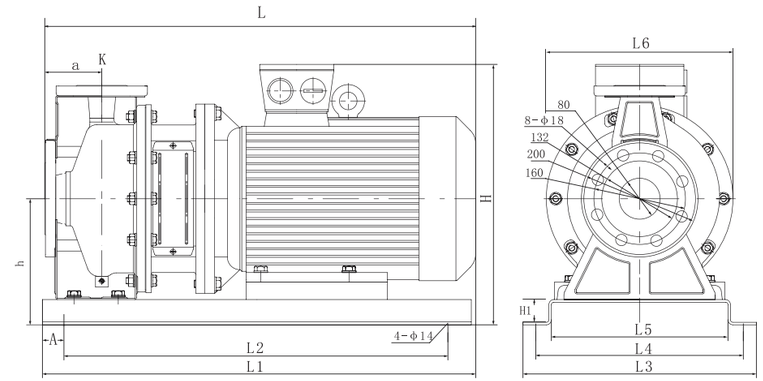






Performance Table

Model	Power	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
YS80-65-200/30	30		70.2	70.2	69.6	68.9	68.2	67.1	66	64.6	63.3	61.4

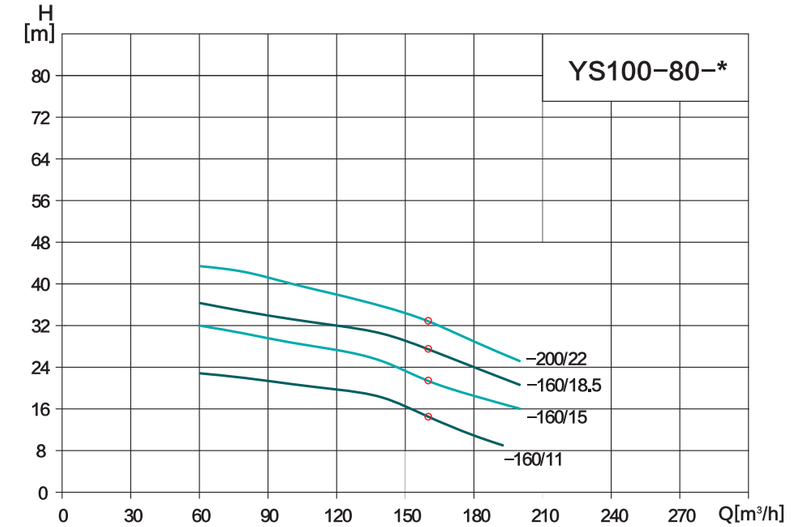


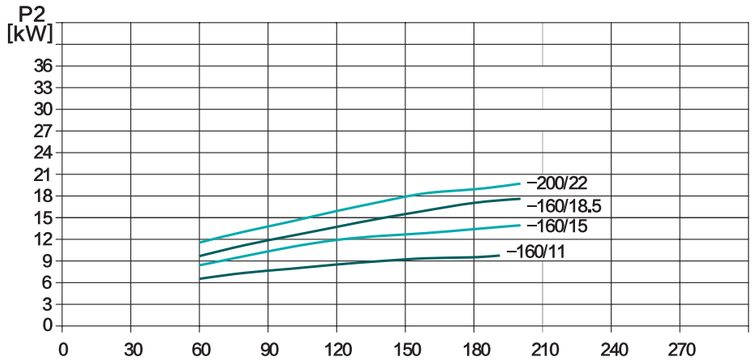
Dimensions and Weight

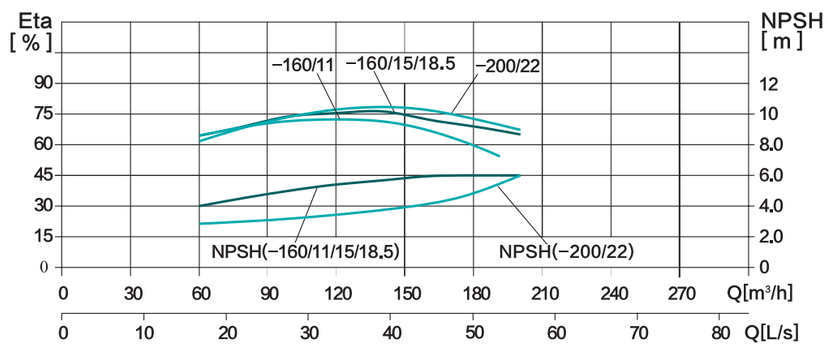
Pump model	Dimensions												Weight (kg)
	A	a	H	H1	h	L	L1	L2	L3	L4	L5	L6	
YS80-65-125/5.5	50	100	413	40	200	690	660	590	370	330	282	300	79
YS80-65-125/7.5	50	100	413	40	200	690	660	590	370	330	282	300	83
YS80-65-125/9.2	50	100	413	40	200	690	660	590	370	330	282	300	87
YS80-65-160/11	50	100	456	40	200	790	770	690	420	380	332	350	163
YS80-65-160/15	50	100	456	40	200	790	770	690	420	380	332	350	173
YS80-65-200/18.5	50	100	476	40	200	830	810	730	420	380	332	350	190
YS80-65-200/22	50	100	500	40	200	880	860	780	455	415	367	350	220
YS80-65-200/30	50	100	550	40	200	950	930	850	495	455	407	400	292

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-*

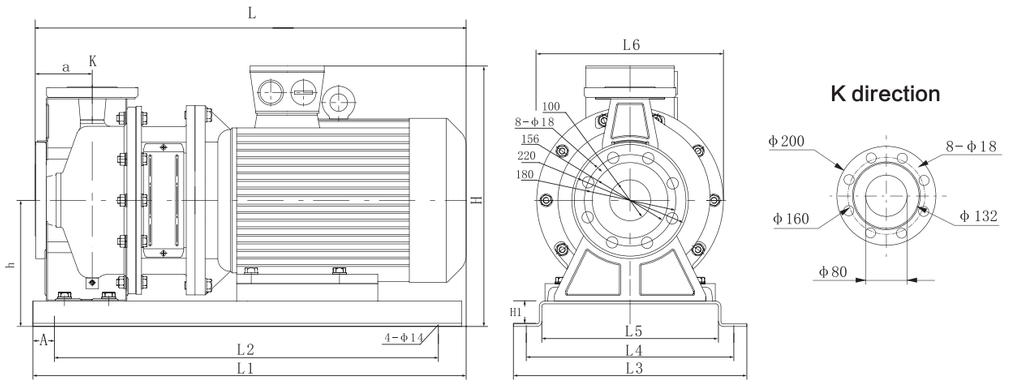






Performance Table

Model	Power	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	a	H	H1	h	L	L1	L2	L3	L4	L5	L6	
YS100-80-160/11	50	125	476	40	200	830	810	730	420	380	332	350	163
YS100-80-160/15	50	125	476	40	200	830	810	730	420	380	332	350	173
YS100-80-160/18.5	50	125	476	40	200	870	850	770	420	380	332	350	185
YS100-80-200/22	50	125	500	40	200	920	890	810	455	415	367	350	220

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
YS80-65-200/30	1140×570×690	310
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
YS100-80-200/30	1150×525×600	313
YS100-80-200/37	1150×525×600	333

The BLA series light stainless steel vertical multistage centrifugal pumps



BL(T)-A

Model Instruction

BL 32 - 2 - 2-A

- The matching motor is apermanent magnet motor
- Number of small impellers
- Number of stages
- Rated flow rate (m^3/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 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℃ , hot water type 0 ~ +120℃
◎ Maximum ambient temperature:+40℃
◎ Maximum working pressure: 10 bar
◎ When the density or viscosity of the transmission medium exceeds that of water, it is necessaryto select a drving motor of high-power.
◎ pH: 6.5 to 8.5

Applications Fields

◎ Pressurized water supply
◎ Water treatment system
◎ Industrial liquid transportation
◎ Farmland irrigation

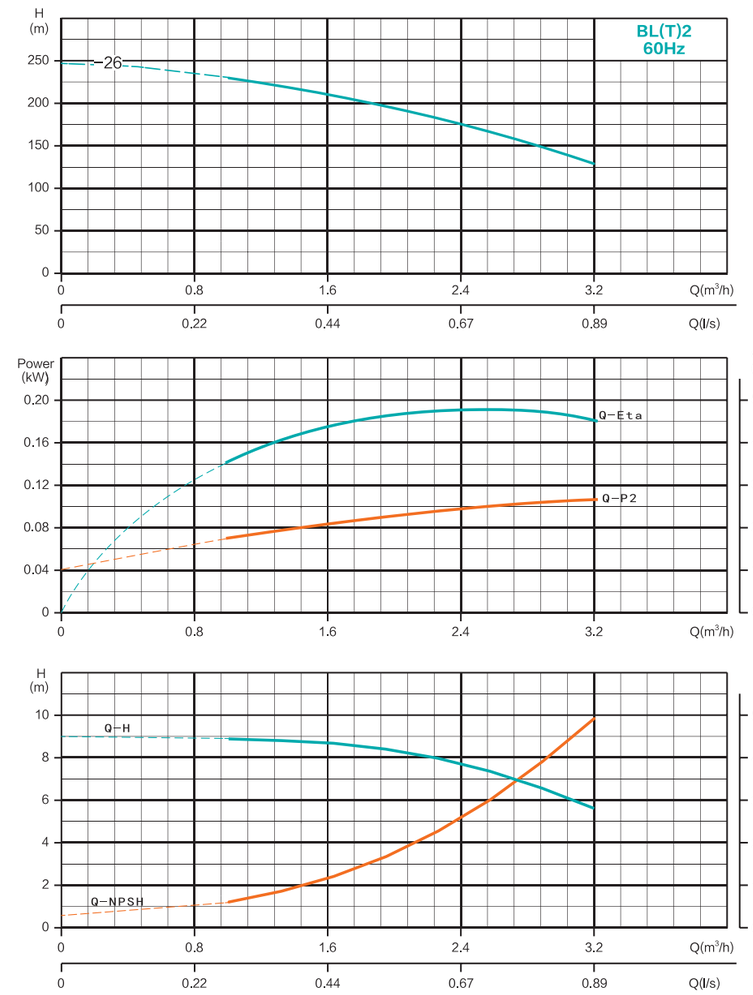
Certificate

CE

Optional Available On Request

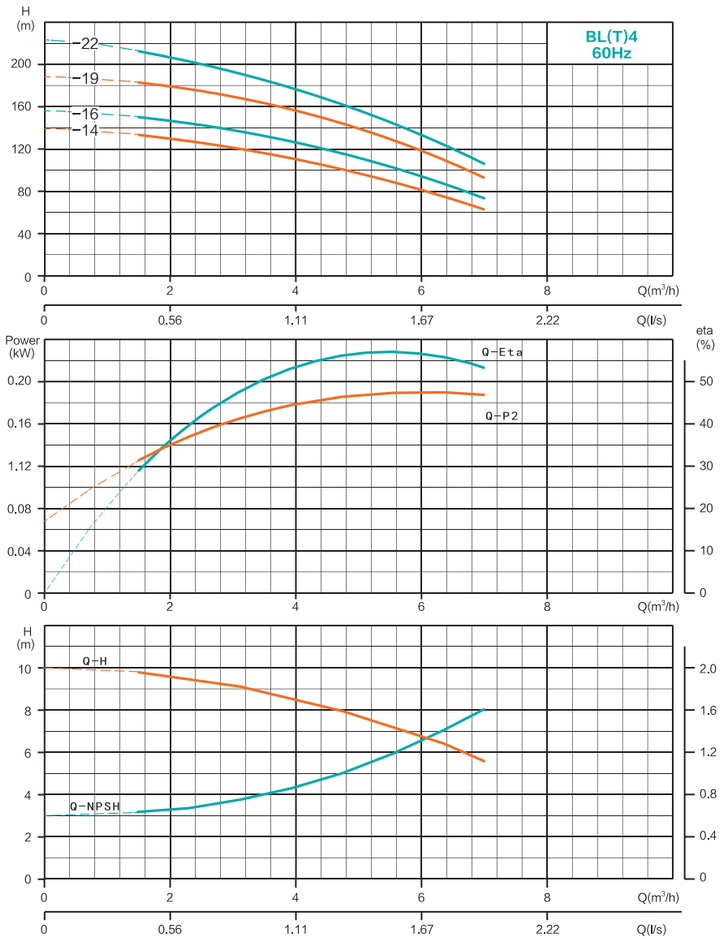
◎ elnsulation class: F
◎ Standard voltage (50Hz): Single phase 220v
◎ Three phase:380v or 220v

Performance curve



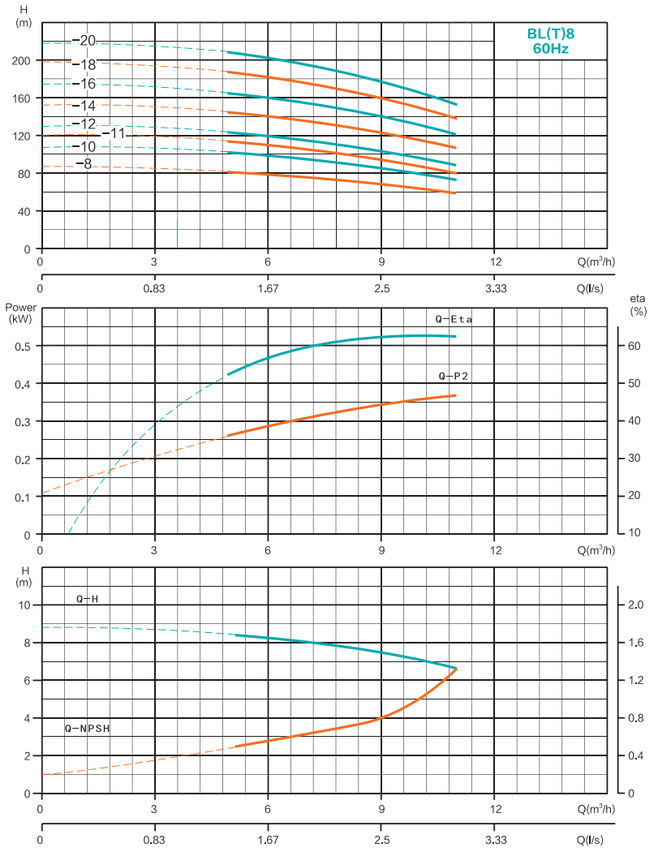
Model	Flow (m^3/h)	Head(m)	Power(kW)	Maximum pressure(bar)
BL2-26A	2	198	3	23.2
BLT2-26A	2	198	3	23.2

Performance curve



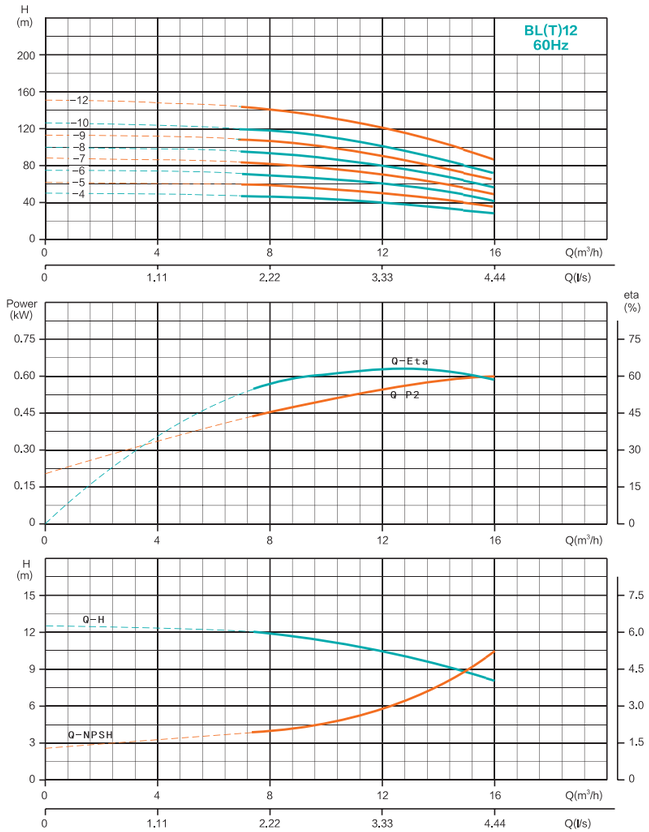
Model	Flow (m^3/h)	Head(m)	Power(kW)	Maximum pressure(bar)
BL4-14A	4	112	3	13.6
BLT4-14A	4	112	3	13.6
BL4-16A	4	129	3	15.2
BLT4-16A	4	129	3	15.2
BL4-19A	4	153	4	18.3
BLT4-19A	4	153	4	18.3
BL4-22A	4	178	4	21.1
BLT4-22A	4	178	4	21.1

Performance curve



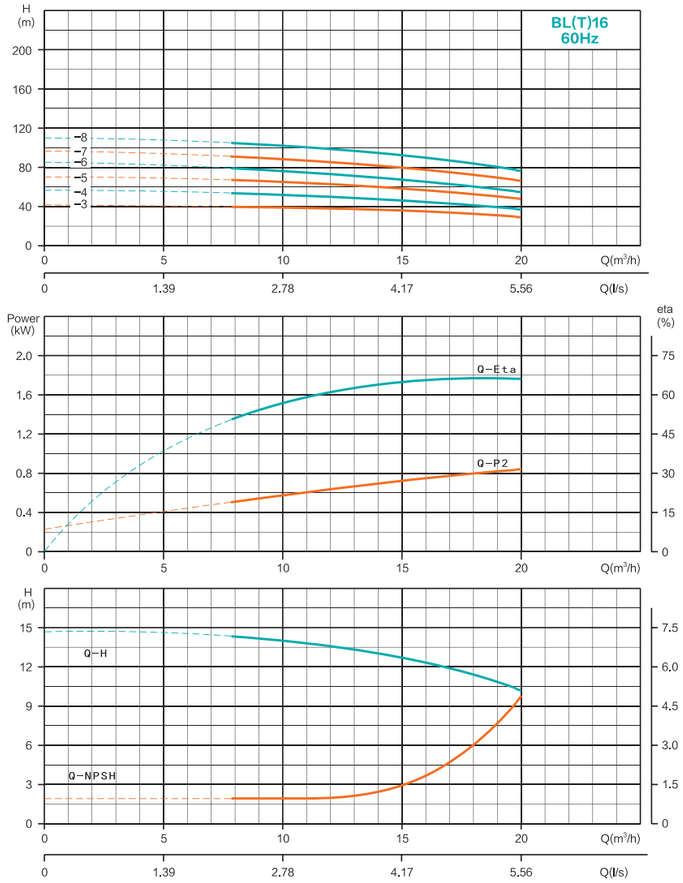
Model	Flow(m^3/h)	Head(m)	Power(kW)	Maximum pressure(bar)
BL8-8A	8	73	3	8.3
BLT8-8A	8	73	3	8.3
BL8-10A	8	92	4	10.4
BLT8-10A	8	92	4	10.4
BL8-11A	8	101	4	11.4
BLT8-11A	8	101	4	11.4
BL8-12A	8	111	4	12.4
BLT8-12A	8	111	4	12.4
BL8-14A	8	130	5.5	14.5
BLT8-14A	8	130	5.5	14.5
BL8-16A	8	148	5.5	16.6
BLT8-16A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



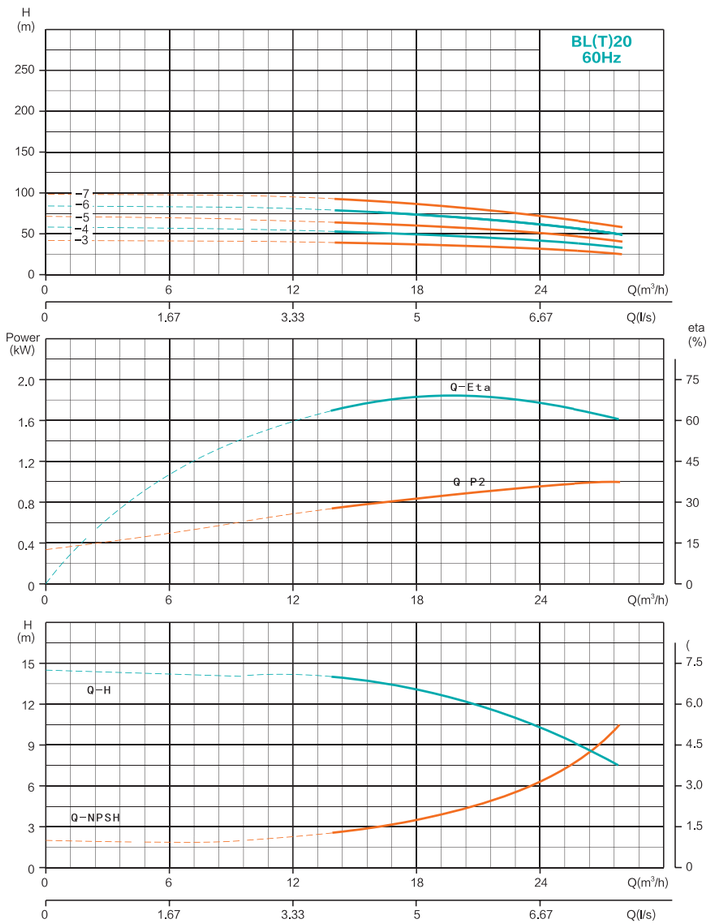
Model	Flow(m^3/h)	Head(m)	Power(kW)	Maximum pressure(bar)
BL12-4A	12	40	3	4.7
BLT12-4A	12	40	3	4.7
BL12-5A	12	50	3	5.95
BLT12-5A	12	50	3	5.95
BL12-6A	12	60	4	7.15
BLT12-6A	12	60	4	7.15
BL12-7A	12	70	5.5	8.35
BLT12-7A	12	70	5.5	8.35
BL12-8A	12	80	5.5	9.55
BLT12-8A	12	80	5.5	9.55
BL12-9A	12	91	5.5	10.8
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

Performance curve



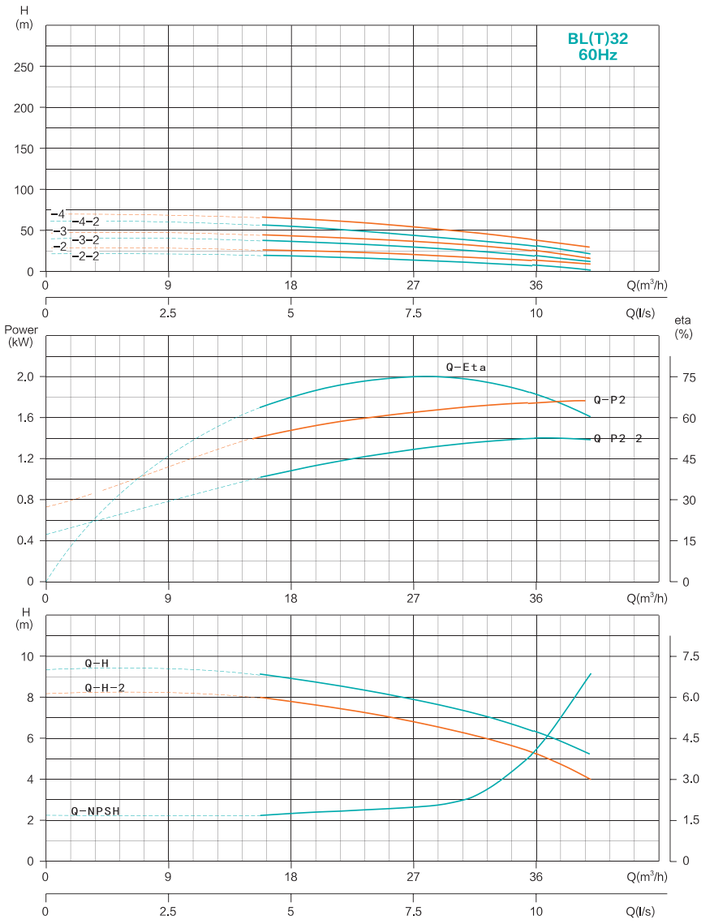
Model	Flow(m^3/h)	Head(m)	Power(kW)	Maximum pressure(bar)
BL16-3A	16	34	3	4.1
BLT16-3A	16	34	3	4.1
BL16-4A	16	46	4	5.4
BLT16-4A	16	46	4	5.4
BL16-5A	16	58	5.5	6.8
BLT16-5A	16	58	5.5	6.8
BL16-6A	16	70	5.5	8.2
BLT16-6A	16	70	5.5	8.2
BL16-7A	16	82	7.5	9.6
BLT16-7A	16	82	7.5	9.6
BL16-8A	16	94	7.5	11
BLT16-8A	16	94	7.5	11

Performance curve



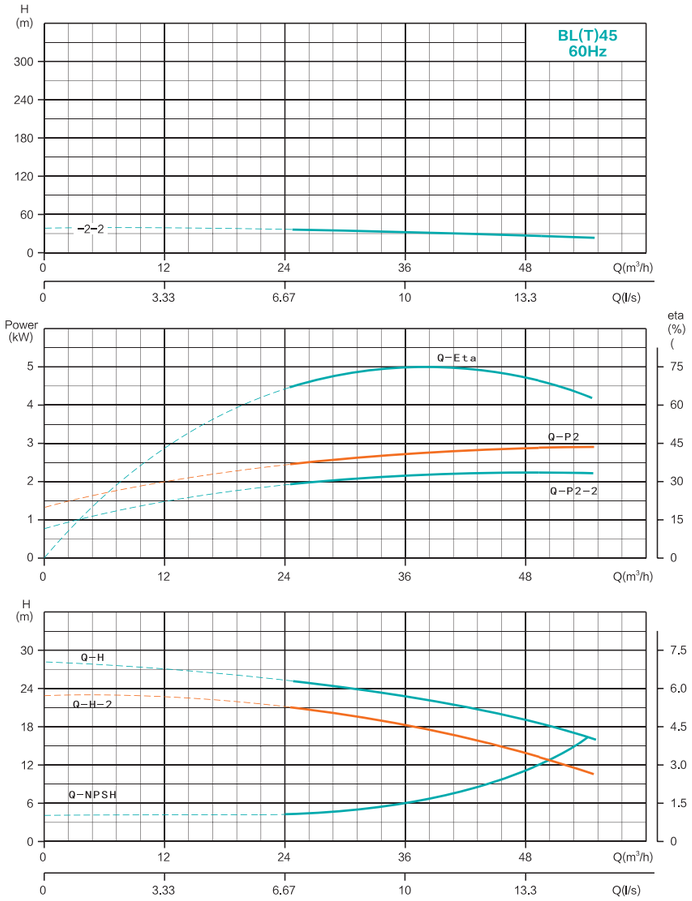
Model	Flow(m^3/h)	Head(m)	Power(kW)	Maximum pressure(bar)
BL20-3A	20	35	4	3.9
BLT20-3A	20	35	4	3.9
BL20-4A	20	47	5.5	5.2
BLT20-4A	20	47	5.5	5.2
BL20-5A	20	58	5.5	6.4
BLT20-5A	20	58	5.5	6.4
BL20-6A	20	70	7.5	7.7
BLT20-6A	20	70	7.5	7.7
BL20-7A	20	82	7.5	9.1
BLT20-7A	20	82	7.5	9.1

Performance curve



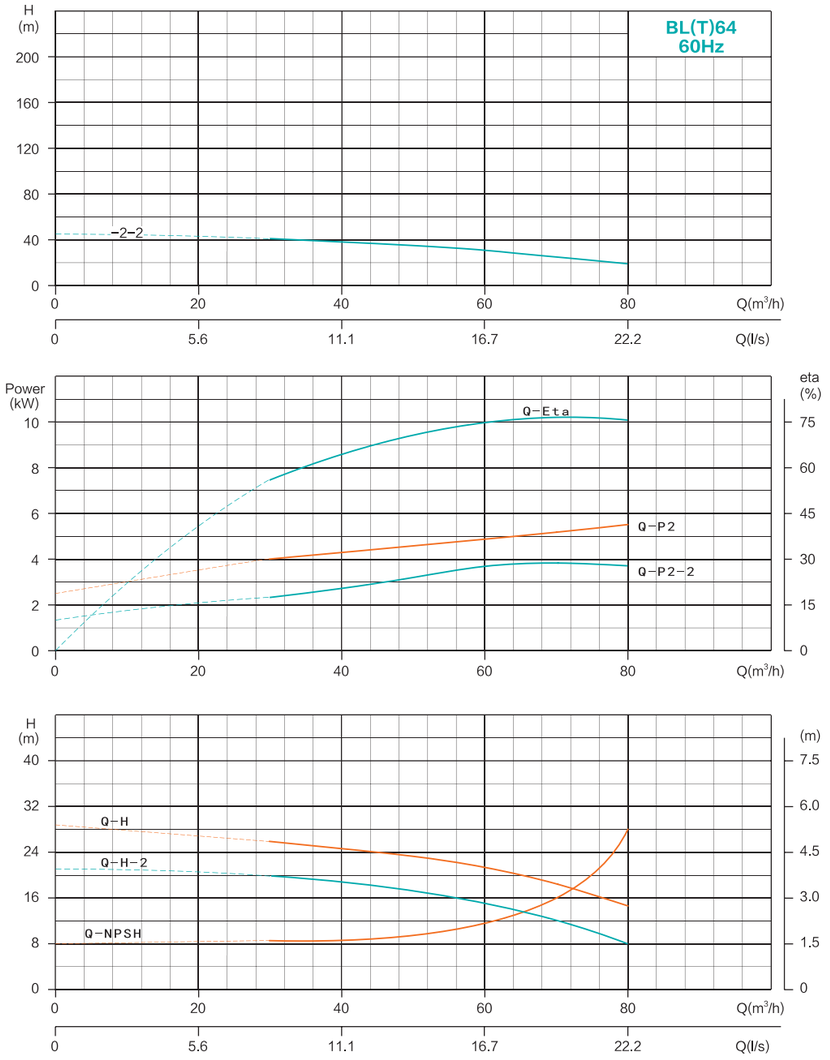
Model	Flow(m^3/h)	Head(m)	Power(kW)	Maximum pressure(bar)
BL32-2-2A	32	20	3	2.9
BLT32-2-2A	32	20	3	2.9
BL32-2A	32	27	4	3.6
BLT32-2A	32	27	4	3.6
BL32-3-2A	32	33	5.5	4.7
BLT32-3-2A	32	33	5.5	4.7
BL32-3A	32	40	5.5	5.4
BLT32-3A	32	40	5.5	5.4
BL32-4-2A	32	46	7.5	6.5
BLT32-4-2A	32	46	7.5	6.5
BL32-4A	32	53	7.5	7.2
BLT32-4A	32	53	7.5	7.2

Performance curve



Model	Flow(m^3/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

Performance curve

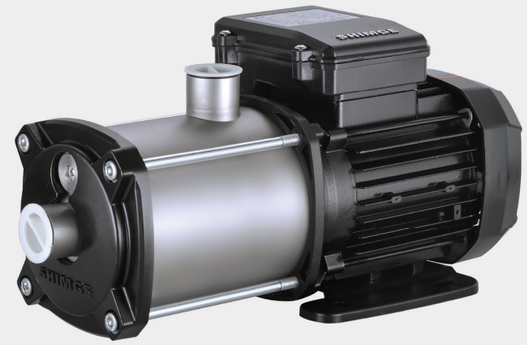


Model	Flow(m^3/h)	Head(m)	Power(kW)	Maximum pressure(bar)
BL64-2-2A	64	26	7.5	3.9
BLT64-2-2A	64	26	7.5	3.9

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)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)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
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)45-2-2A	1140×440×500	111	145
BL(T)45-2A	1140×440×500	111	145
BL(T)64-2-2A	1100×440×500	133	163

BWI series new light stainless steel horizontal multistage centrifugal pump



BWI

Model Instruction

BWI 2 - 4

- Number of pump stages
- Rated flow rate (m^3/h)
- New stainless steel horizontal multistage centrifugal pump

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℃ -68℃ for normal temperature type; 0℃ -120℃ for hot water type
◎ Ambient temperature: -15℃ -+40℃ ; 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

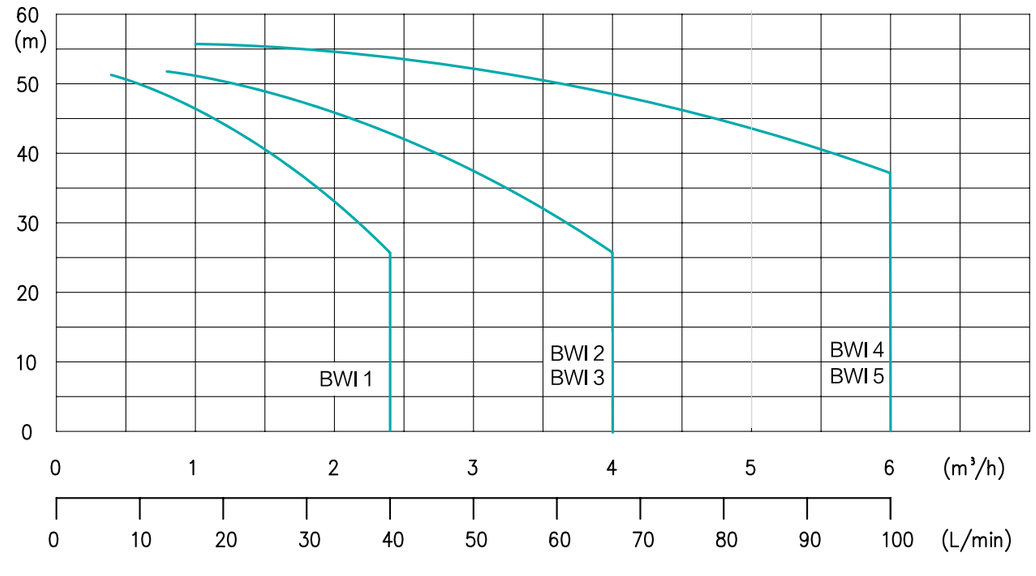
Certificate

CE

Optional Available On Request

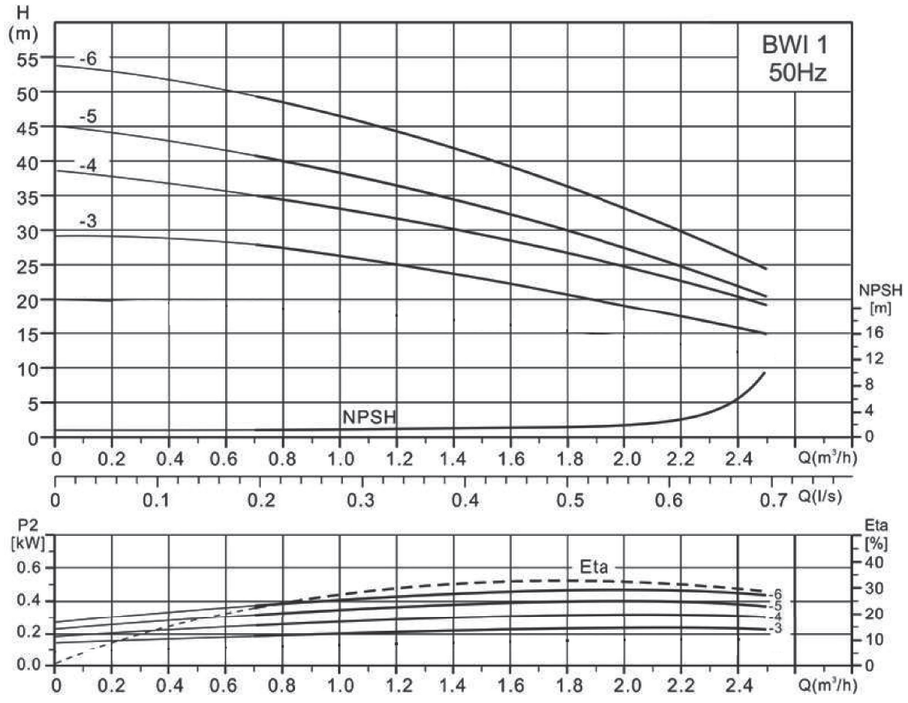
Fully enclosed secondary air-cooled special shaft motor (extended shaft), NSK bearing/domestic brand bearing, 50W800 cold-rolled silicon steel sheet
◎ Protection level: IP55
◎ Insulation class: Class F
◎ Working method: S1
◎ Voltage level: 220V/380V/50Hz

Performance Curve



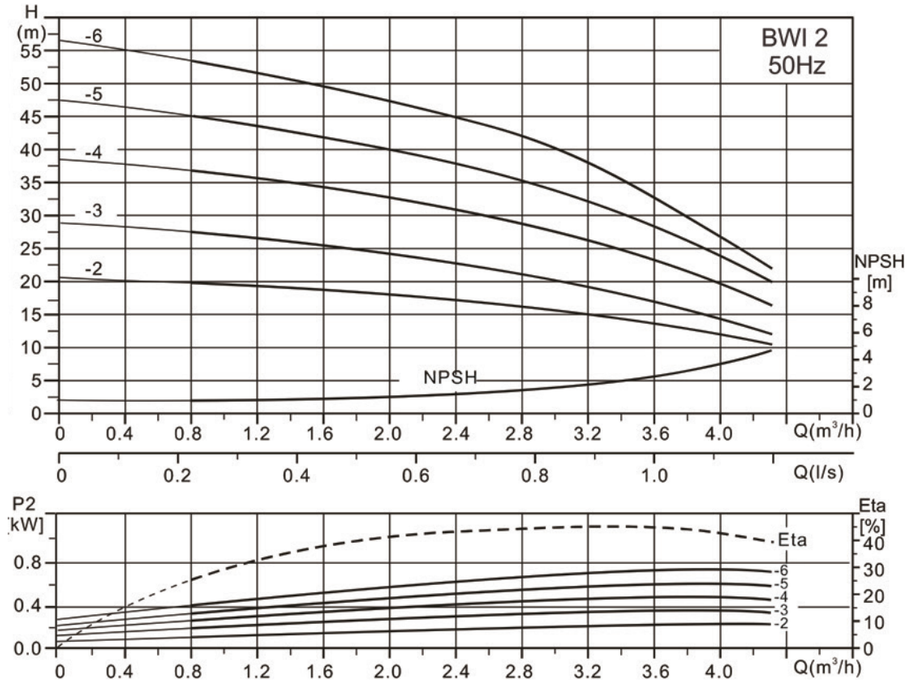
Model	Rated flow (m3/h)	Flow range (m3/h)	Maximum pressure (bar)	Motor power (kW)	Maximum efficiency (%)	Temperature range (℃)	Inlet	Outlet
BWI 1	1	0.4-2.4	5.1	0.25-0.37	28	0℃ -68℃ for normal temperature type; 0℃ -120℃ for hot water type	G1	G1
BWI 2	2	0.8-4	5.6	0.25-0.75	39		G1	G1
BWI 3	3	0.8-4	5.6	0.25-0.75	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 1 Performance Curve



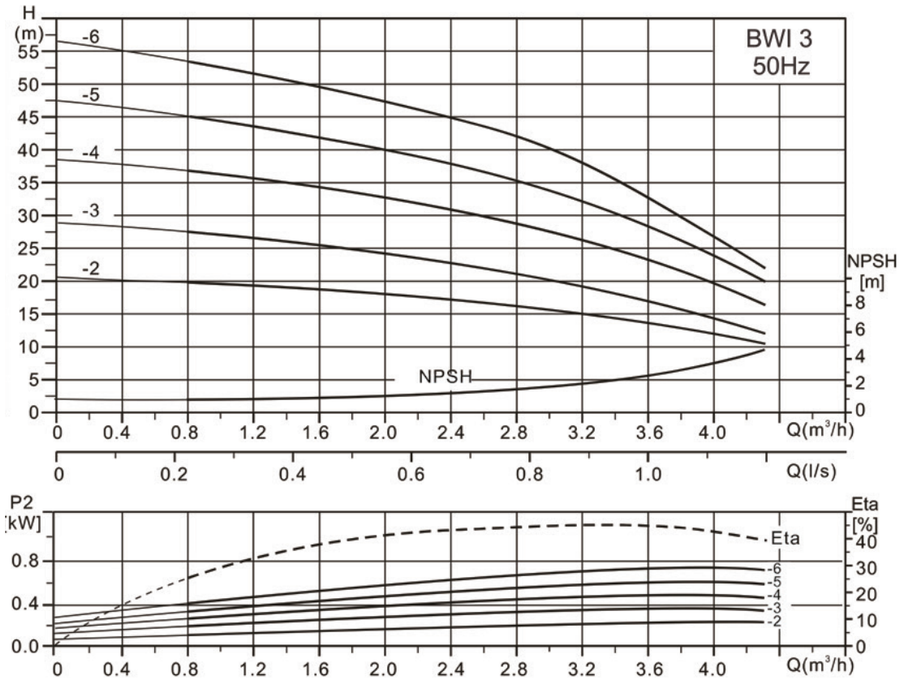
Model	Power	Q (m³/h)	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.0	2.2	2.4
BWI 1-3	0.25	H(m)	29	28.5	26	25	24.5	23.5	22	21	19	17	16
BWI 1-4	0.37		37	36	35	33	32	30	28	27	26	22	20
BWI 1-5	0.37		43	42	41	38	36	34	32	29	27	25	22
BWI 1-6	0.37		51	50	49	46	44	42	40	36	32	30	26

BWI 2 Performance Curve



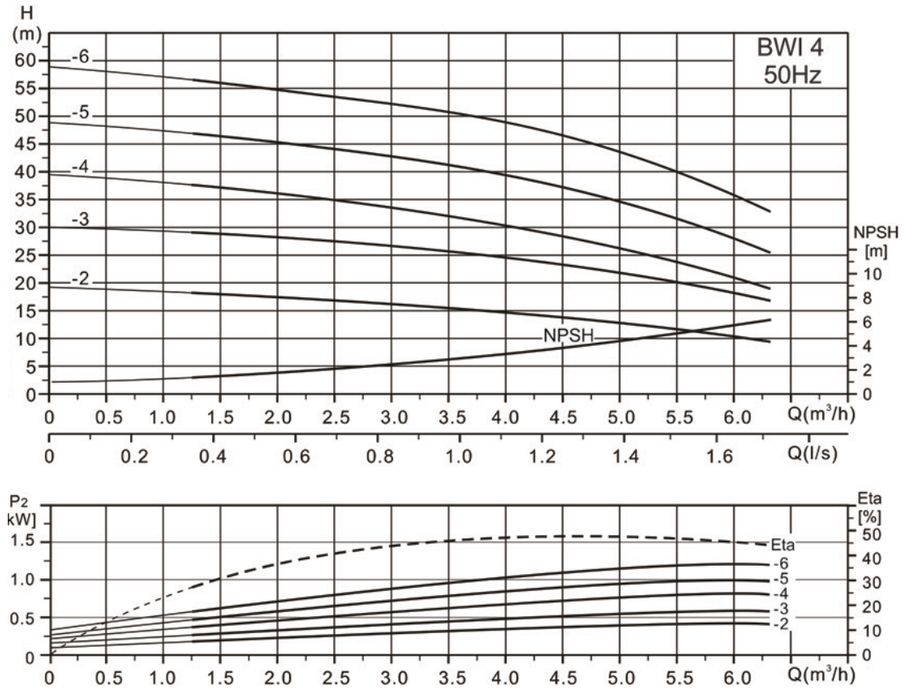
Model	Power	Q (m³/h)	0.8	1.2	1.6	2.0	2.4	2.8	3.2	3.6	4.0
BWI 2-2	0.25	H(m)	18.5	17.5	17	16	15	14	12	11	9.5
BWI 2-3	0.37		26	25	24	23	22	21	19	16	14
BWI 2-4	0.55		35	34	33	31	30	28	26	22	19
BWI 2-5	0.55		43	42	41	39	37	35	32	27.5	23
BWI 2-6	0.75		52	50.5	47	46	44	40	35	30.5	26

BWI 3 Performance Curve



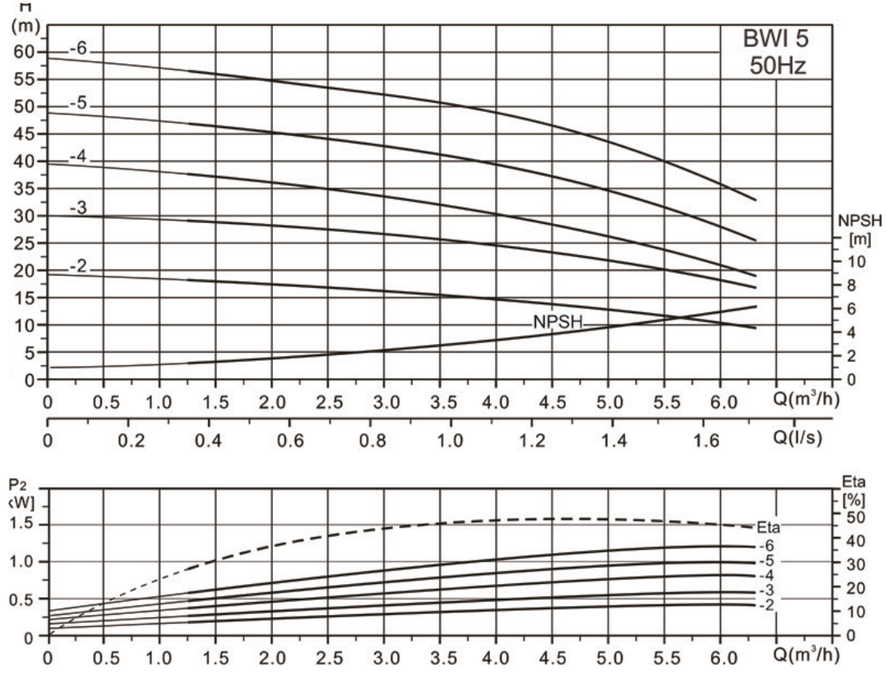
Model	Power	Q (m³/h)	0.8	1.2	1.6	2.0	2.4	2.8	3.0	3.2	3.6	4.0
BWI 3-2	0.25	H(m)	18.5	17.5	17	16	15	14	13	12	11	9.5
BWI 3-3	0.37		26	25	24	23	22	21	20	19	16	14
BWI 3-4	0.55		35	34	33	31	30	28	27	26	22	19
BWI 3-5	0.55		43	42	41	39	37	35	33	32	27.5	23
BWI 3-6	0.75		52	50.5	47	46	44	40	37	35	30.5	26

BWI 4 Performance Curve



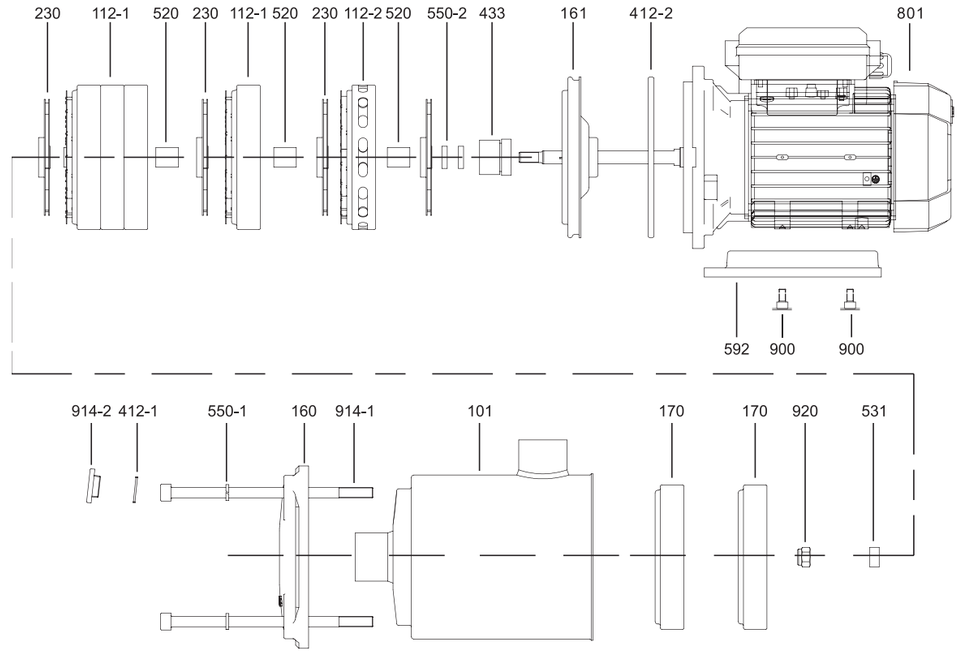
Model	Power	Q (m³/h)	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0
BWI 4-2	0.37	H(m)	18.5	18	17.5	17	16	15.5	15	13.5	13	11	10
BWI 4-3	0.55		29	28.5	28	27	26.5	25.5	25	23	22	20	18
BWI 4-4	0.75		38	37	36	34	33.5	32	30	28	27	24	20
BWI 4-5	1.0		47	46	45	44	42.5	41	40	36	35	32	27
BWI 4-6	1.3		56.5	55	54	53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

BWI 5 Performance Curve



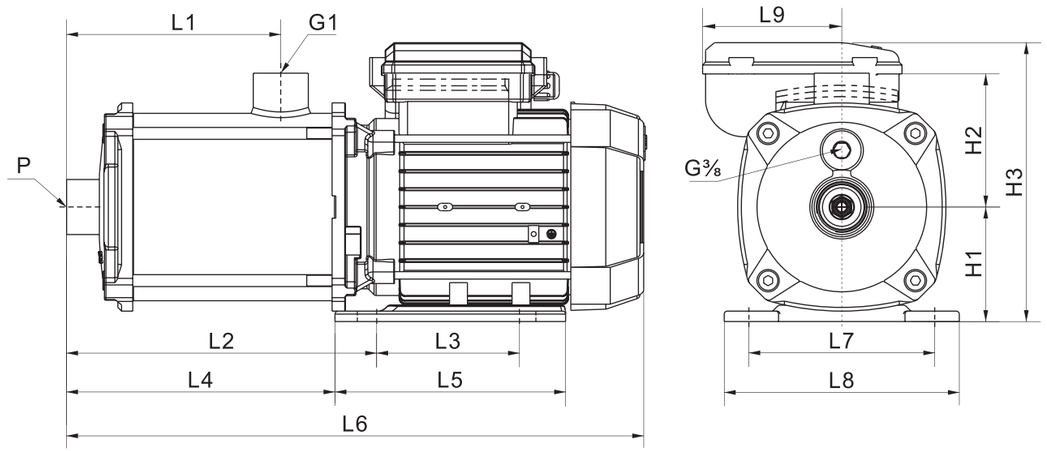
Model	Power	Q (m³/h)	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0
BWI 5-2	0.37	H(m)	18.5	18	17.5	17	16	15.5	15	13.5	13	11	10
BWI 5-3	0.55		29	28.5	28	27	26.5	25.5	25	23	22	20	18
BWI 5-4	0.75		38	37	36	34	33.5	32	30	28	27	24	20
BWI 5-5	1.0		47	46	45	44	42.5	41	40	36	35	32	27
BWI 5-6	1.3		56.5	55	54	53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

Components



No.	Component	No.	Component	No.	Component
101	Pressure tube	412-1	O-shaped sealing ring	592	Base
112-1	Deflector	412-2	O-shaped sealing ring	801	Motor
112-2	Outlet deflector	433	Mechanical seal	900	Hexagon flange bolts
160	Pressure plate	520	Long round set	914-1	Hexagon socket head screw
161	Front cover assembly	531	Bushing	914-2	Hexagon socket
170	Inlet deflector	550-1	Standard spring washer 8	920	Type non-metallic pliers hexagonal lock nut
230	Impeller	550-2	Adjusting washer		

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)	Single-phase	Three phase	P	Weight (kg)
												H3(mm)			
BWI 1-3	72	131	96	115	136	305	125	158	93.5	75	90	174	174	G1	8
BWI 1-4	90	149	96	133	136	323	125	158	93.5	75	90	174	174	G1	8.3
BWI 1-5	108	167	96	151	136	341	125	158	93.5	75	90	174	174	G1	8.6
BWI 1-6	144	203	96	187	136	377	125	158	93.5	75	90	174	174	G1	9

Model	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	L7 (mm)	L8 (mm)	L9 (mm)	H1 (mm)	H2 (mm)	Single-phase	Three phase	P	Weight (kg)
												H3(mm)			
BWI 2-2	72	131	96	115	136	305	125	158	93.5	75	90	174	174	G1	7.4
BWI 2-3	72	131	96	115	136	305	125	158	93.5	75	90	174	174	G1	7.5
BWI 2-4	90	154	96	126	155	334	125	158	93.5	75	90	197	188	G1	10
BWI 2-5	108	172	96	144	155	352	125	158	93.5	75	90	197	188	G1	10.5
BWI 2-6	144	208	96	180	155	388	125	158	93.5	75	90	197	188	G1	12

Model	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	L7 (mm)	L8 (mm)	L9 (mm)	H1 (mm)	H2 (mm)	Single-phase	Three phase	P	Weight (kg)
												H3(mm)			
BWI 3-2	72	131	96	115	136	305	125	158	93.5	75	90	174	174	G1	7.4
BWI 3-3	72	131	96	115	136	305	125	158	93.5	75	90	174	174	G1	7.5
BWI 3-4	90	154	96	126	155	334	125	158	93.5	75	90	197	188	G1	10
BWI 3-5	108	172	96	144	155	352	125	158	93.5	75	90	197	188	G1	10.5
BWI 3-6	144	208	96	180	155	388	125	158	93.5	75	90	197	188	G1	12

Model	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	L7 (mm)	L8 (mm)	L9 (mm)	H1 (mm)	H2 (mm)	Single-phase	Three phase	P	Weight (kg)
												H3(mm)			
BWI 4-2	72	131	96	115	136	305	125	158	93.5	75	90	174	174	G11/4	8
BWI 4-3	72	136	96	108	155	316	125	158	93.5	75	90	197	188	G11/4	10
BWI 4-4	90	154	96	126	155	334	125	158	93.5	75	90	197	188	G11/4	11.5
BWI 4-5	108	207	125	179	175	396	140	178	102	90	90	238	215	G1 1/4	12.5
BWI 4-6	144	243	125	215	175	432	140	178	102	90	90	238	215	G11/4	15

Model	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	L7 (mm)	L8 (mm)	L9 (mm)	H1 (mm)	H2 (mm)	Single-phase	Three phase	P	Weight (kg)
												H3(mm)			
BWI 5-2	72	131	96	115	136	305	125	158	93.5	75	90	174	174	G11/4	8
BWI 5-3	72	136	96	108	155	316	125	158	93.5	75	90	197	188	G1 1/4	10
BWI 5-4	90	154	96	126	155	334	125	158	93.5	75	90	197	188	G11/4	11.5
BWI 5-5	108	207	125	179	175	396	140	178	102	90	90	238	215	G11/4	12.5
BWI 5-6	144	243	125	215	175	432	140	178	102	90	90	238	215	G11/4	15