Vertical Multi-Stage Centrifugal Pumps

BL(T)

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

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

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

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

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

BL (T) 32 - 2 - 2 - R - L

- L: 316 material (304 material is not marked)
- R:Hot water type(Cold-water is not marked)
- Number of small impellers
- Number of stages
- Rated flow(m^3/h)
- Some of the passage components are iron castings, be absent when all the flow passage components are made of stainless steel
- Type range

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:-15℃ ~ +40℃
◎ 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

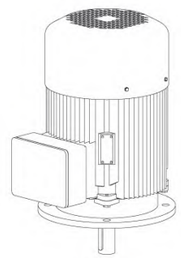
CE

Electric Motor

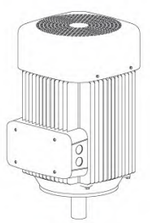
◎ Full-enclosed and ventilating two-pole standard motor
◎ Protection class: IP55
◎ Insulation class: F
◎ Standard voltage Single phase 220V-50Hz Three phase:220/380V-50Hz

Energy Efficiency Standard (IEC60034-1)

	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	
55	93.2	94.3	
75	93.8	94.7	
90	94.1	95	
110	94.3	95.2	



IM V1



IM V18

Calculation Of minimum Inlet Pressure

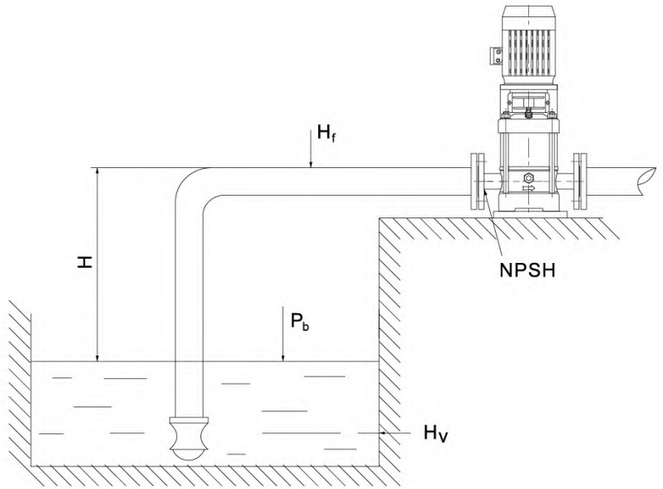
If the pressure in pump is lower than the vapour pressure of medium, cavitation will occur, which will affect the performance of pump. To avoid the cavitation and ensure the pump inlet has a minimum pressure, maximum suction head should be calculated as following:

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

Pb: Atmospheric pressure, bar (In close pipeline system, it can be considered as the system pressure);
NPSH: Net positive suction head, m (Value at maximum flow of Q-NPSH curve);
Hf: Suction pipe line loss (Value at maximum flow of corresponding pipeline);
Hv: Medium vapour pressure, m (Medium vapour pressure at corresponding temperature, the default medium is water, as shown in figure2 on the right);
Hs: Safety margin, m, general value is 0.5.
Calculation result: if H is positive, the pump is installed in suction way, otherwise, it is installed in downdraft way.

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

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



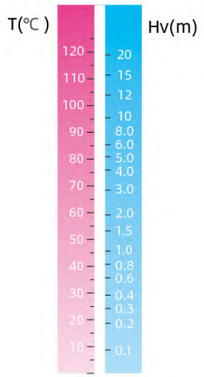


Fig. 2

Selection Of Pumps

- **Duty point of the pump.**
- **Dimensional data such as pressure loss as 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.3) 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.

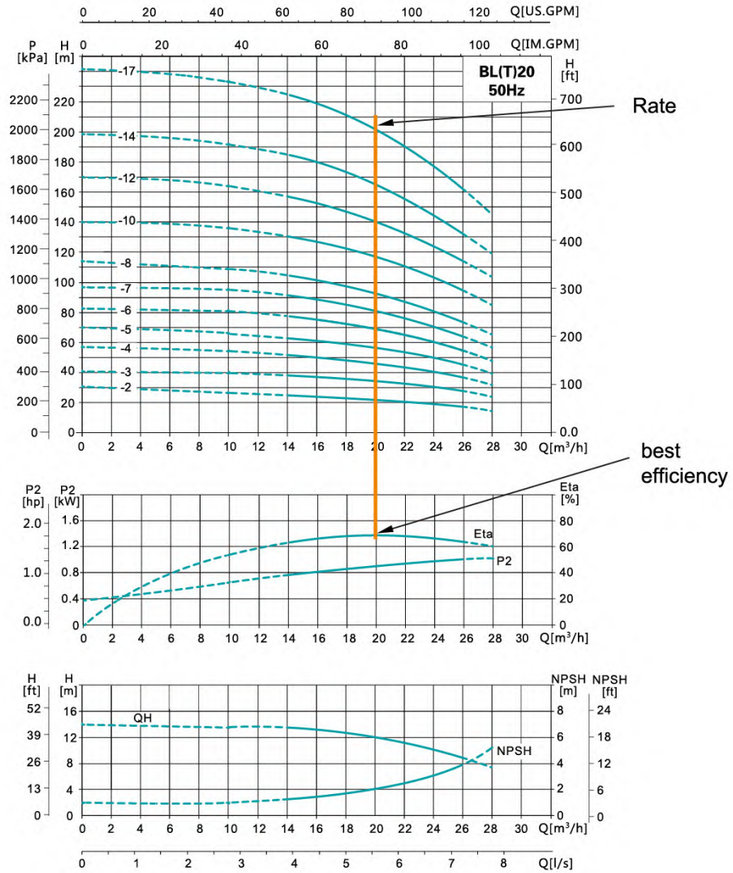


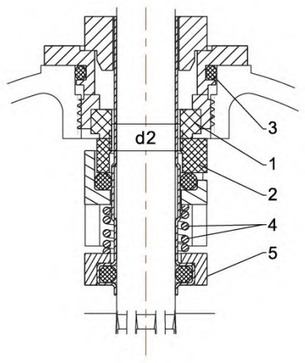
Fig.3

■ Pump material:

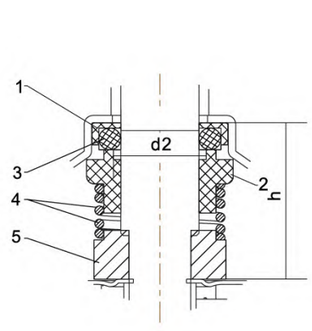
Selection of pump connection depend on the rated pressure and pipe work. the pump offer a wide range of texible connection such as:

Loose round flange
Pipe thread
Oval flange
Round flange

■ Commonly used mechanical seal configuration tables



NJK



NDA

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

Maximum Work Pressure

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

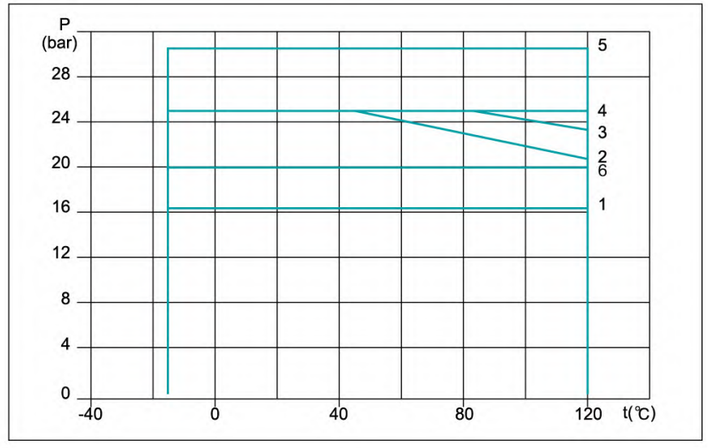
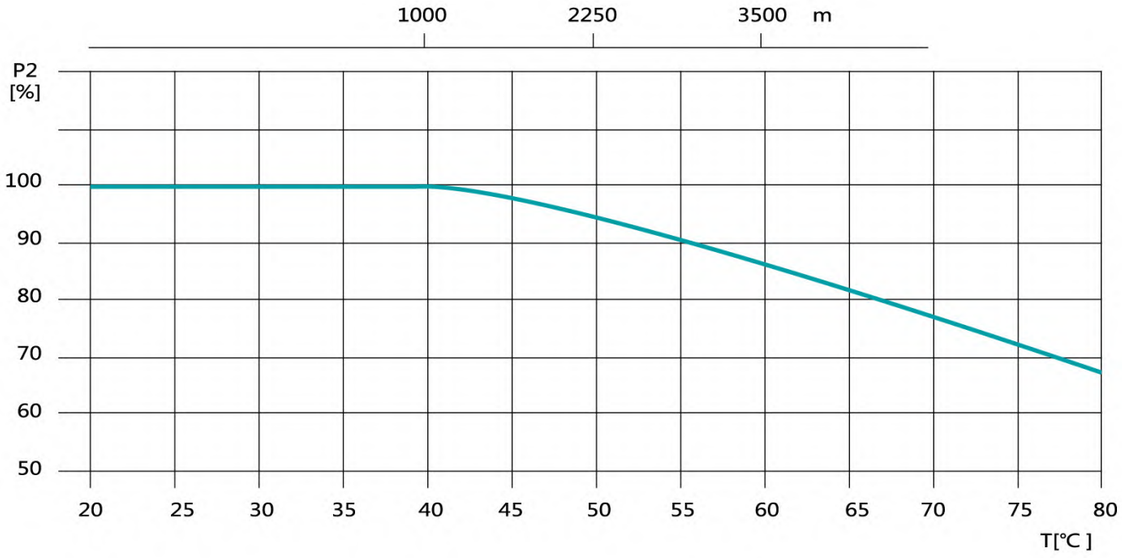


Fig. 4

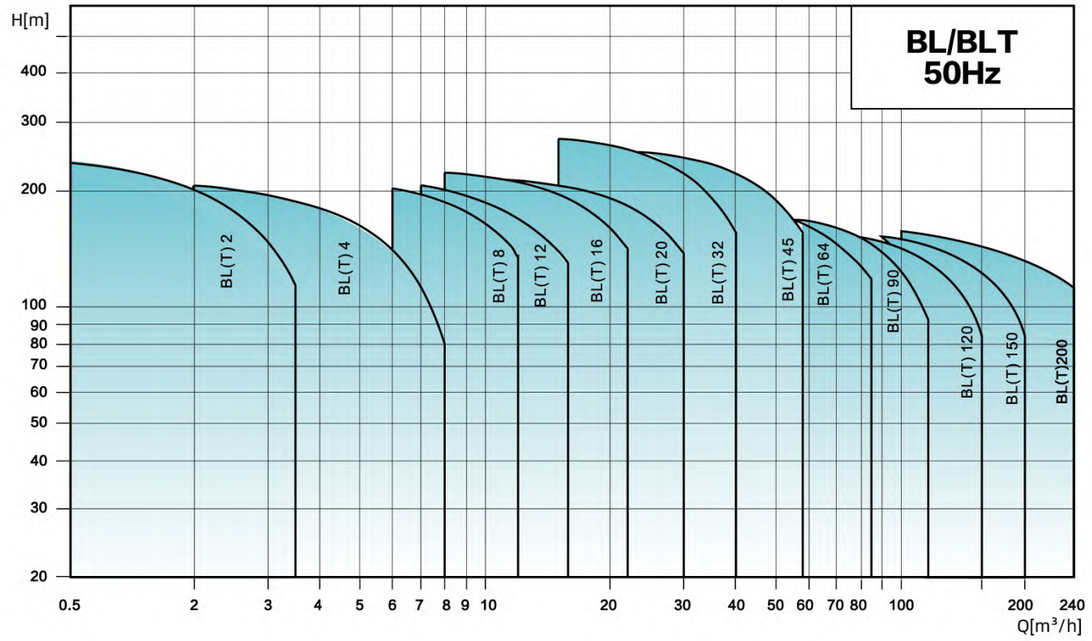
The limits of pressure and temperature are shown in the following fig.4,the pressure and temperature must be in the shown in the fig. 4.

Maximum Ambient Temperature

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

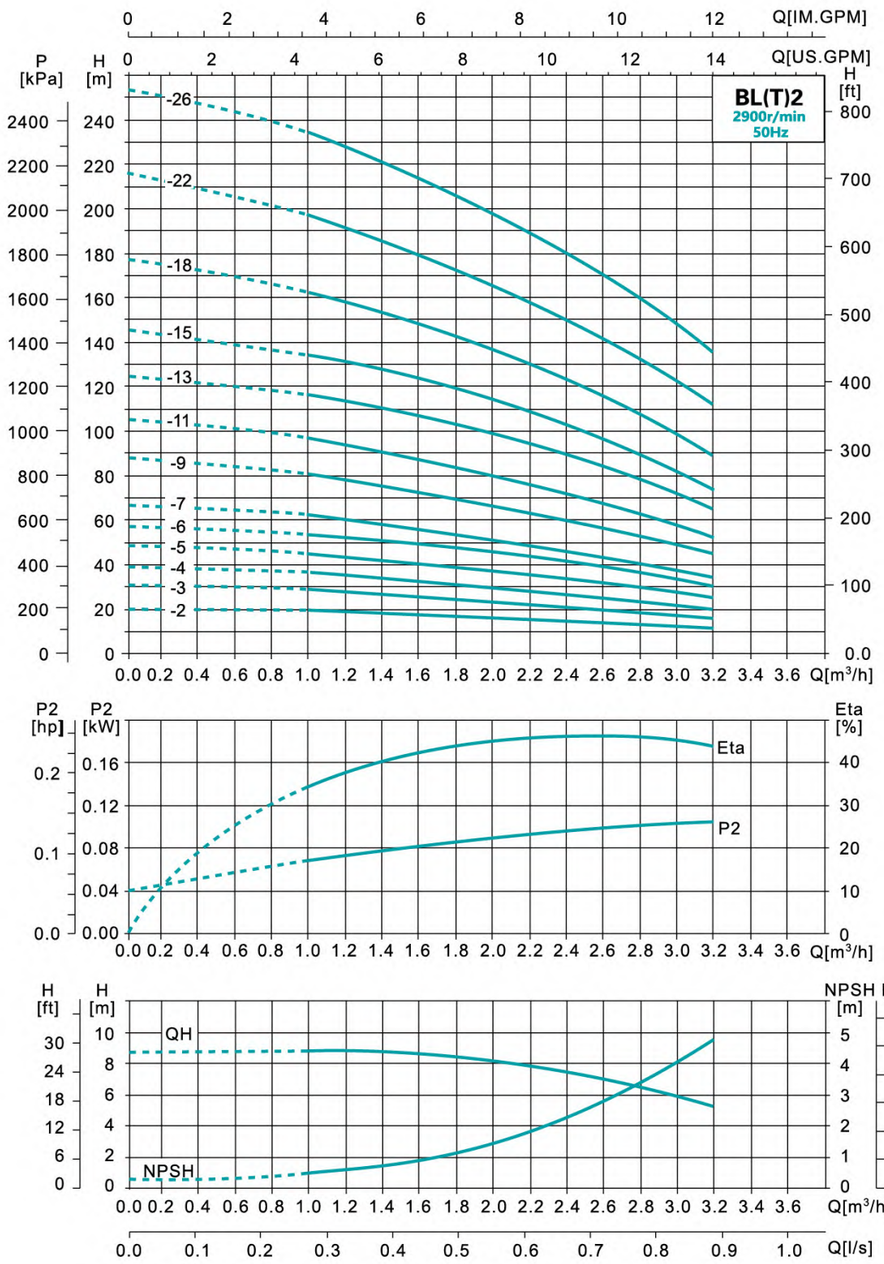


Performance Range



Model	BL(T)2	BL(T)4	BL(T)8	BL(T)12	BL(T)16	BL(T)20	BL(T)32	BL(T)45	BL(T)64	BL(T)90	BL(T)120	BL(T)150	BL(T)200
Rated Flow (m³/h)	2	4	8	12	16	20	32	45	64	90	120	150	200
Flow Range (m³/h)	1~3.5	1.5~7	5~11	7~16	8~20	14~28	16~40	25~55	30~80	50~110	60~150	80~180	100~240
Max.Pressure (bar)	23	21	21	22	22	23	27	28	22	16	17	16	16
Motor Power (kW)	0.37~3	0.37~4	0.75~7.5	1.5~11	2.2~15	2.2~18.5	3~30	5.5~45	7.5~45	11~45	11~75	11~75	18.5-110
Max.Efficiency (%)	45	57	62	63	66	67	70	74	75	76	75	76	79
Flange Pressure	PN25	PN25	PN25	PN25	PN25	PN25	PN40	PN40	PN16	PN16	PN40	PN40	PN40
DIN Flange	DN25	DN32	DN40	DN50	DN50	DN50	DN65	DN80	DN100	DN100	DN125	DN125	DN150
Pipe Thread	R_2 1¼	$R_2$1¼		Rc2,on request									
Oval flange	G1 or G1¼												
Tamperature Range	Standard Type 0 ~ +68℃ Hot Water Type 68℃ ~ +120℃												

Performance Curve - BL(T)2



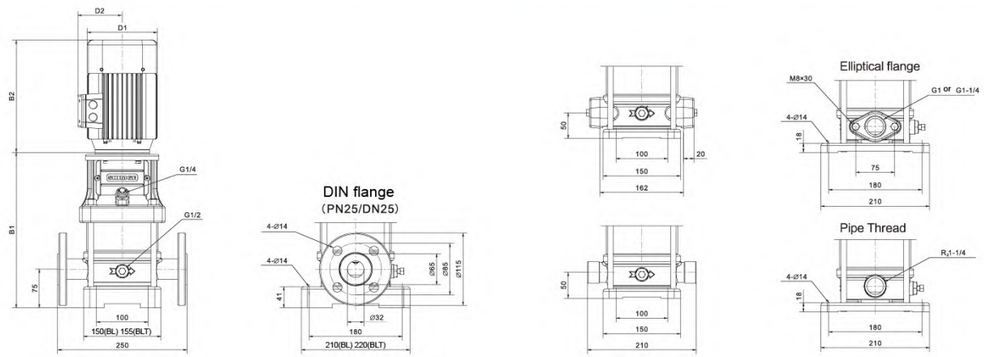
It is recommended to be used within lift range.

Performance Table

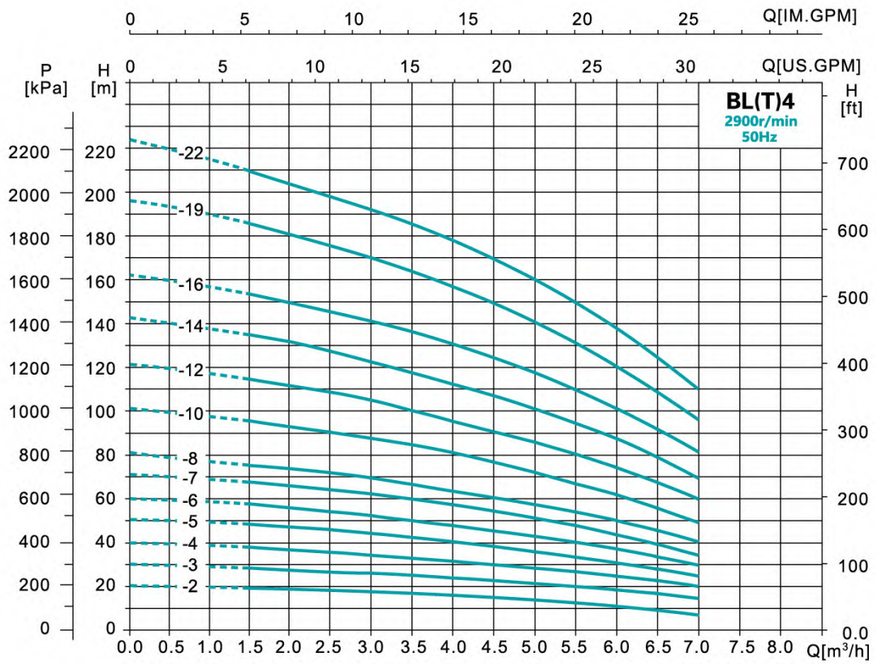
Model	Power kW	Power HP	Caliber	Q (m³/h)	1	1.2	1.6	2	2.4	2.8	3.2	Head Range (m)
BL(T)2-2	0.37	0.5	DN25	H(m)	18	17	16	15	13	12	10	18~10
BL(T)2-3	0.37	0.5			27	26	24	22	20	18	15	27~15
BL(T)2-4	0.55	0.75			36	35	33	30	26	24	20	36~20
BL(T)2-5	0.55	0.75			45	43	40	37	33	30	24	45~24
BL(T)2-6	0.75	1			53	52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

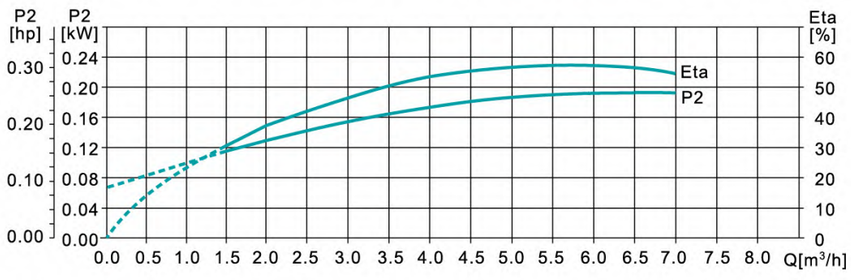
Dimensions

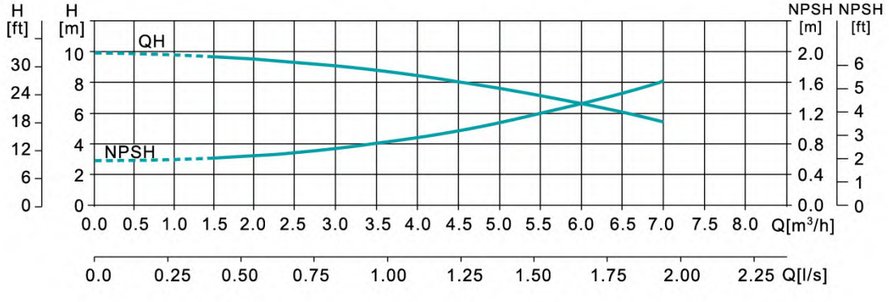
Model	Dim.(mm) B1(BL/BLT)	B2	B1+B2(BL/BLT)	D1	D2	N.W.(kg)(BL/BLT)
BL(T)2-2	274/277	228	502/505	140	103	21/23
BL(T)2-3	274/277	228	502/505	140	103	21/23
BL(T)2-4	292/295	228	520/523	140	103	23/25
BL(T)2-5	310/313	228	538/541	140	103	23/25
BL(T)2-6	338/341	235	573/576	161	112	27/29
BL(T)2-7	356/359	235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



Performance Curve - BL(T) 4







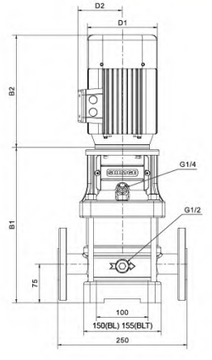
It is recommended to be used within lift range.

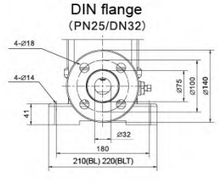
Performance Table

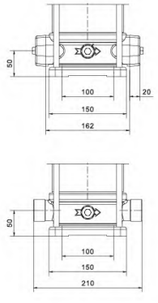
Model	Power		Caliber	Q (m³/h)	1.5	2	3	4	5	6	7	Head Range (m)
	kW	HP										
BL(T)4-2	0.37	0.5			19	18	17	15	13	10	8	19~8
BL(T)4-3	0.55	0.75			28	27	26	24	20	18	13	28~13
BL(T)4-4	0.75	1			38	36	34	32	27	24	19	38~19
BL(T)4-5	1.1	1.5			47	45	43	40	34	31	23	47~23
BL(T)4-6	1.1	1.5			56	54	52	48	41	37	28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

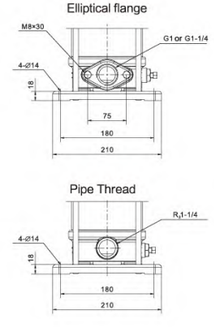
Dimensions

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

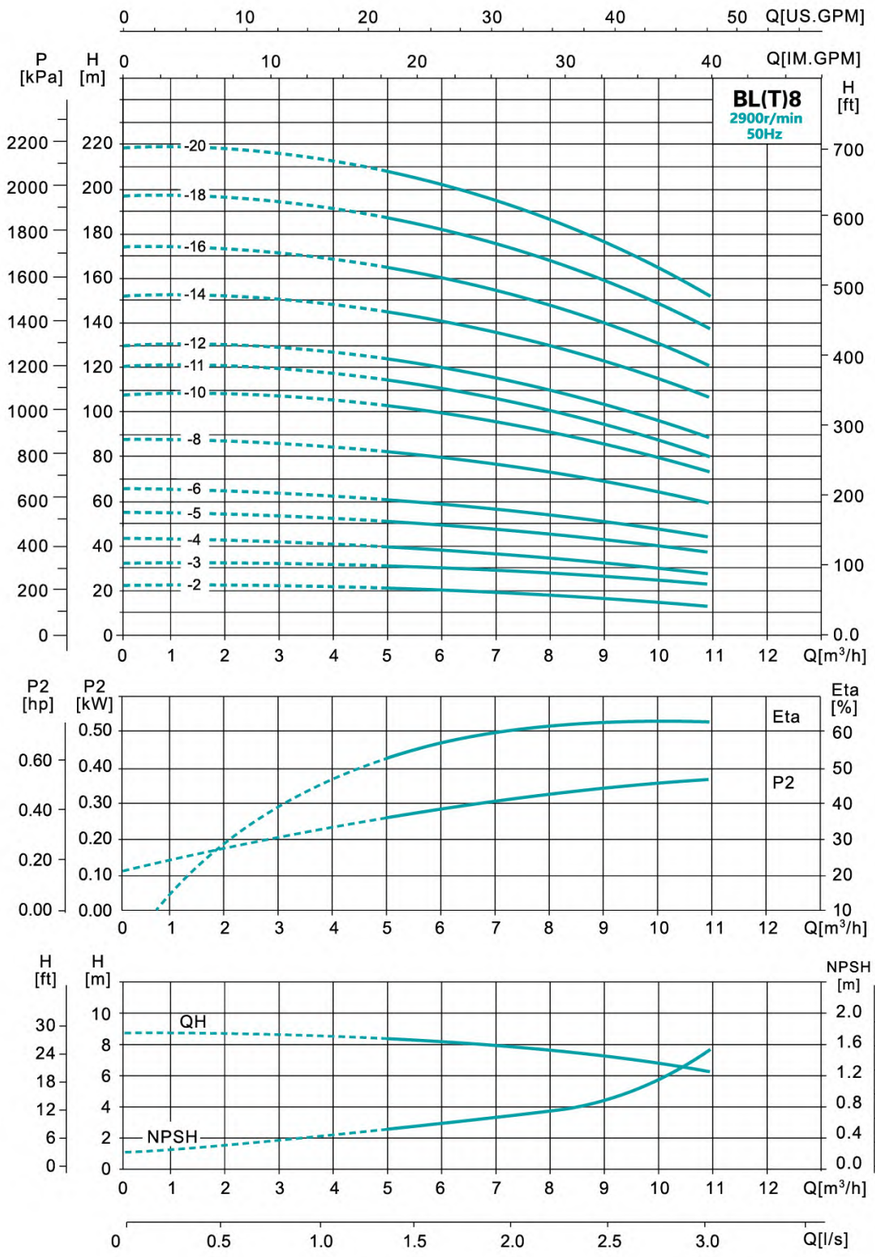








Performance Curve - BL(T) 8



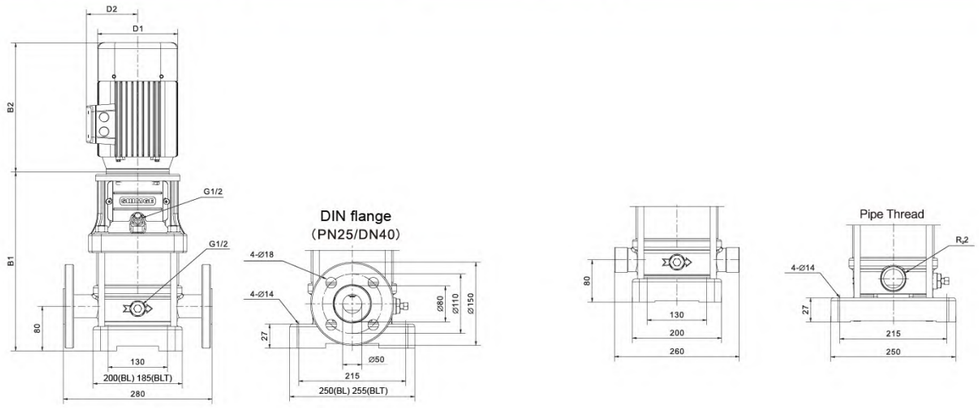
It is recommended to be used within lift range.

Performance Table

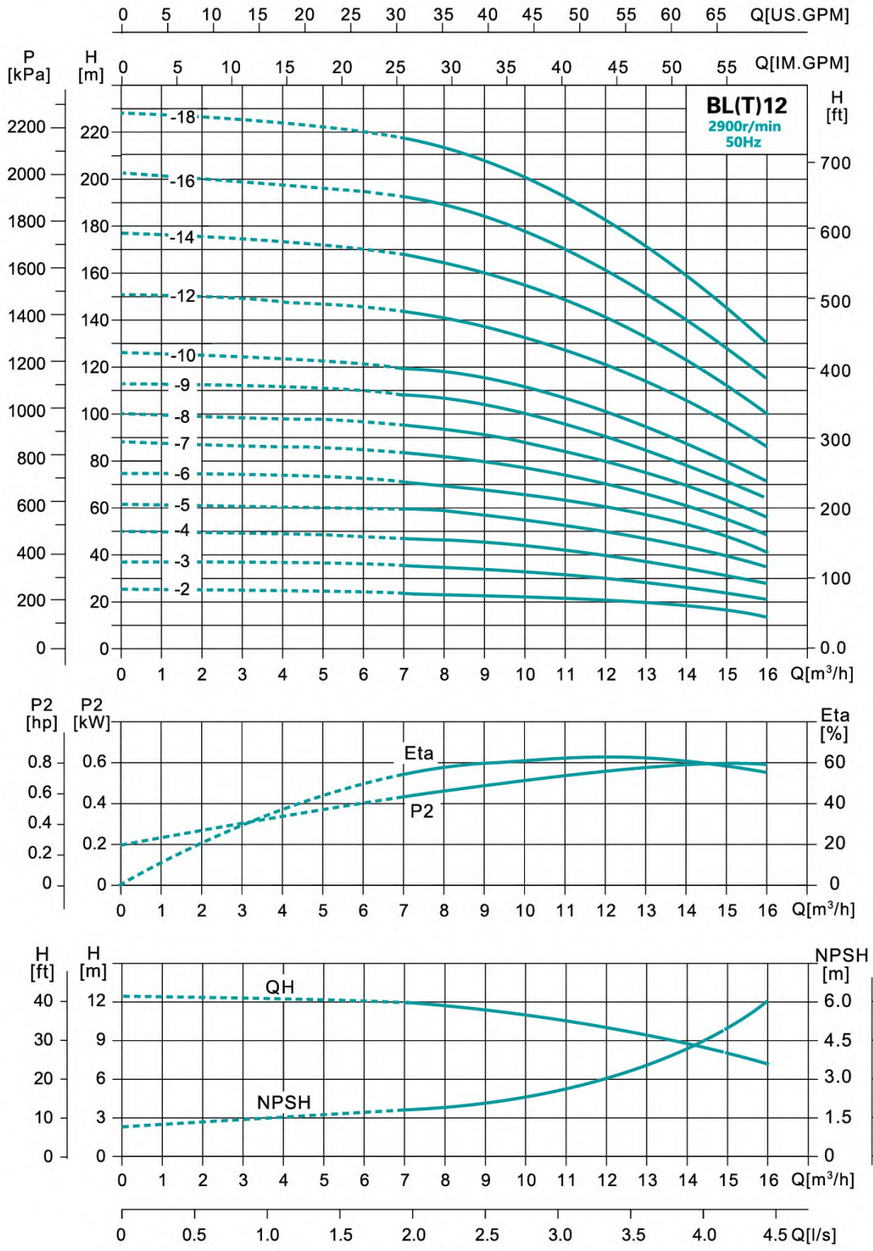
Model	Power		Caliber	Q (m³/h)	5	6	7	8	9	10	11	Head Range (m)
	kW	HP										
BL(T)8-2	0.75	1	DN40	H(m)	20	19.5	19	18	17	16	14	20~14
BL(T)8-3	1.1	1.5			30	29.5	28.5	27	25	24	21	30~21
BL(T)8-4	1.5	2			41	39.5	38	36	34	32	28	41~28
BL(T)8-5	2.2	3			52	50	48	45	42	40	36	52~36
BL(T)8-6	2.2	3			62	60	57	54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

Dimensions

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



Performance Curve - BL(T) 12



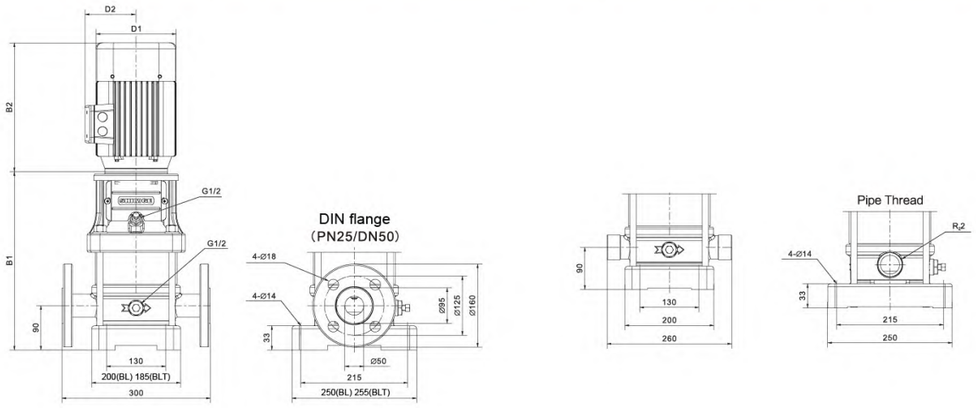
It is recommended to be used within lift range.

Performance Table

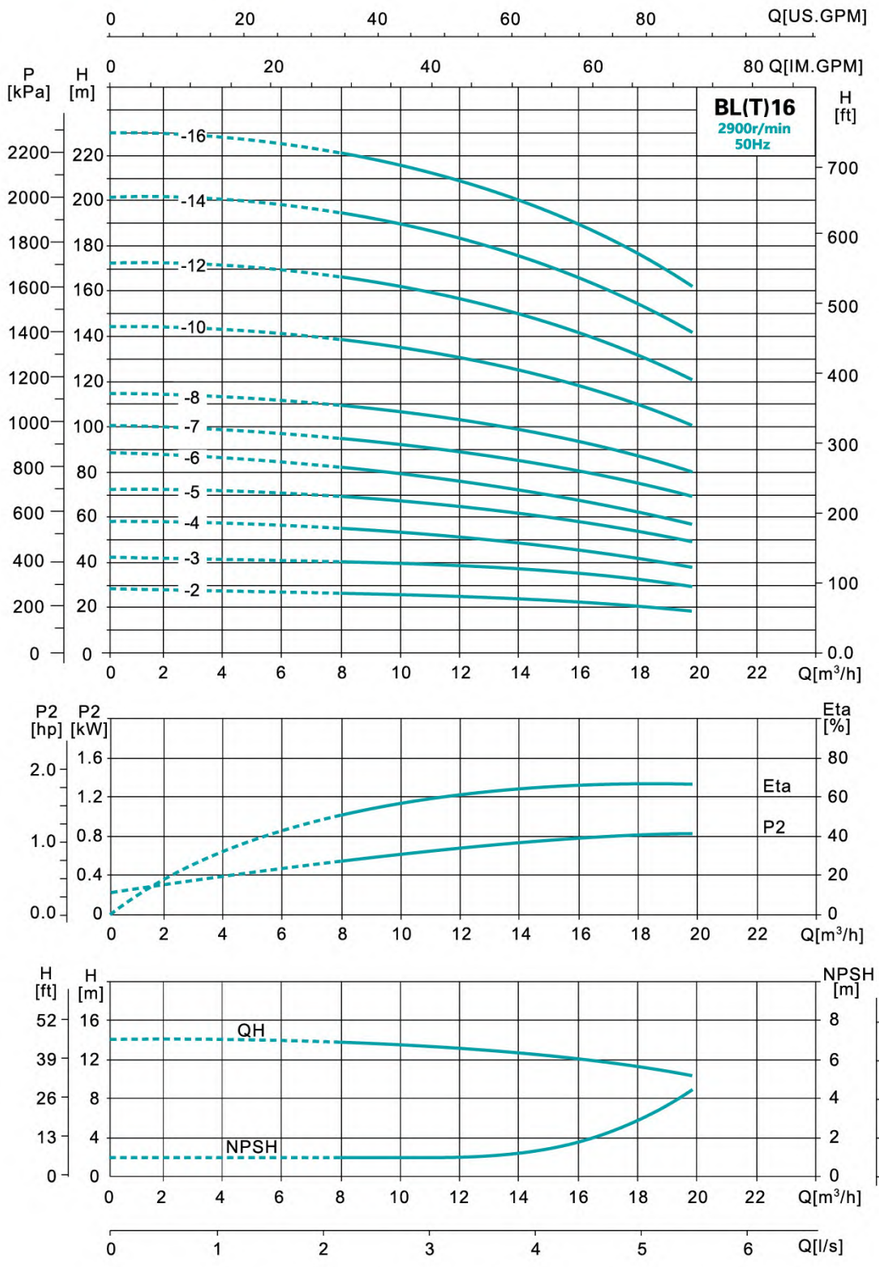
Model	Power		Caliber	Q (m³/h)	7	8	10	12	14	15	16	Head Range (m)
	kW	HP										
BL(T)12-2	1.5	2			23.5	23	22	20	17	15	14	23.5~14
BL(T)12-3	2.2	3			35.5	35	33	30	26	23	21	35.5~21
BL(T)12-4	3	4			47	46	44	40	34	31	28	47~28
BL(T)12-5	3	4			59.5	58	55	50	43	39	35	59.5~35
BL(T)12-6	4	5.5			71.5	70	66	60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

Dimensions

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



Performance Curve - BL(T) 16



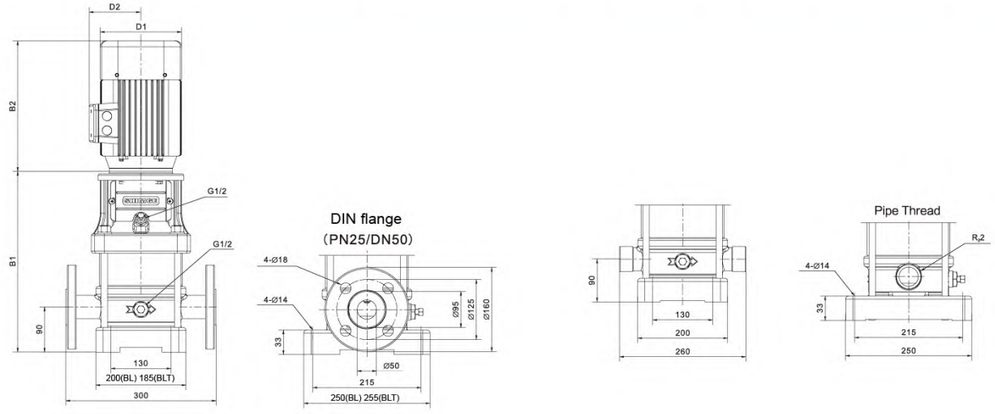
It is recommended to be used within lift range.

Performance Table

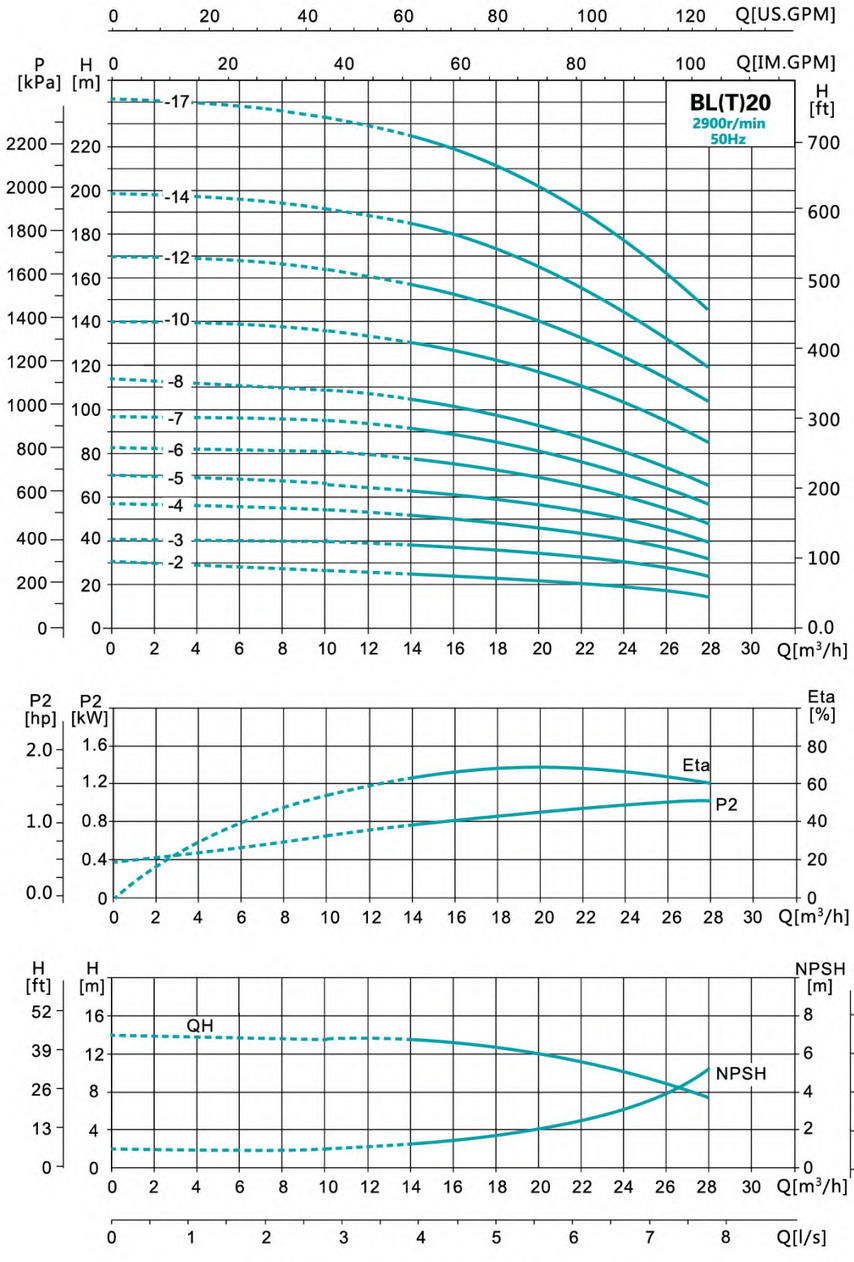
Model	Power		Caliber	Q (m³/h)	8	10	12	14	16	18	20	Head Range (m)
	kW	HP										
BL(T)16-2	2.2	3	DN50	H(m)	27	26	25	24	22	21	19	27~19
BL(T)16-3	3	4			41	40	38	37	34	32	29	41~29
BL(T)16-4	4	5.5			54	53	52	49	46	43	38	54~38
BL(T)16-5	5.5	7.5			68	67	65	62	58	54	48	68~48
BL(T)16-6	5.5	7.5			82	80	78	74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

Dimensions

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



Performance Curve - BL(T) 20



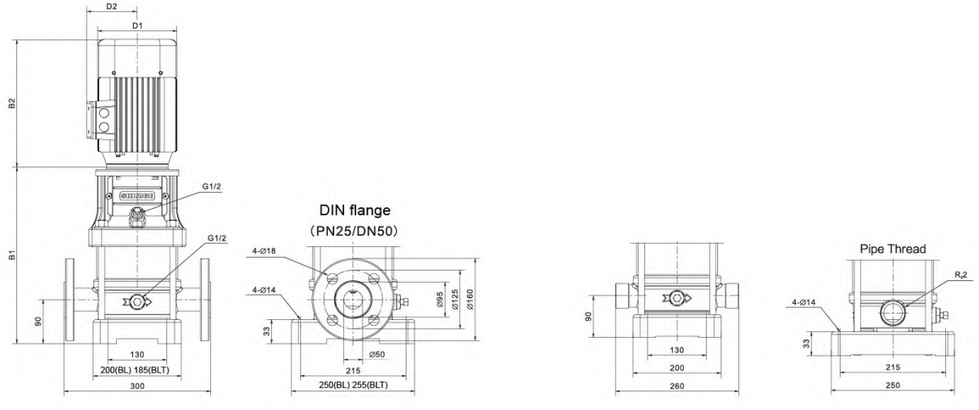
It is recommended to be used within lift range.

Performance Table

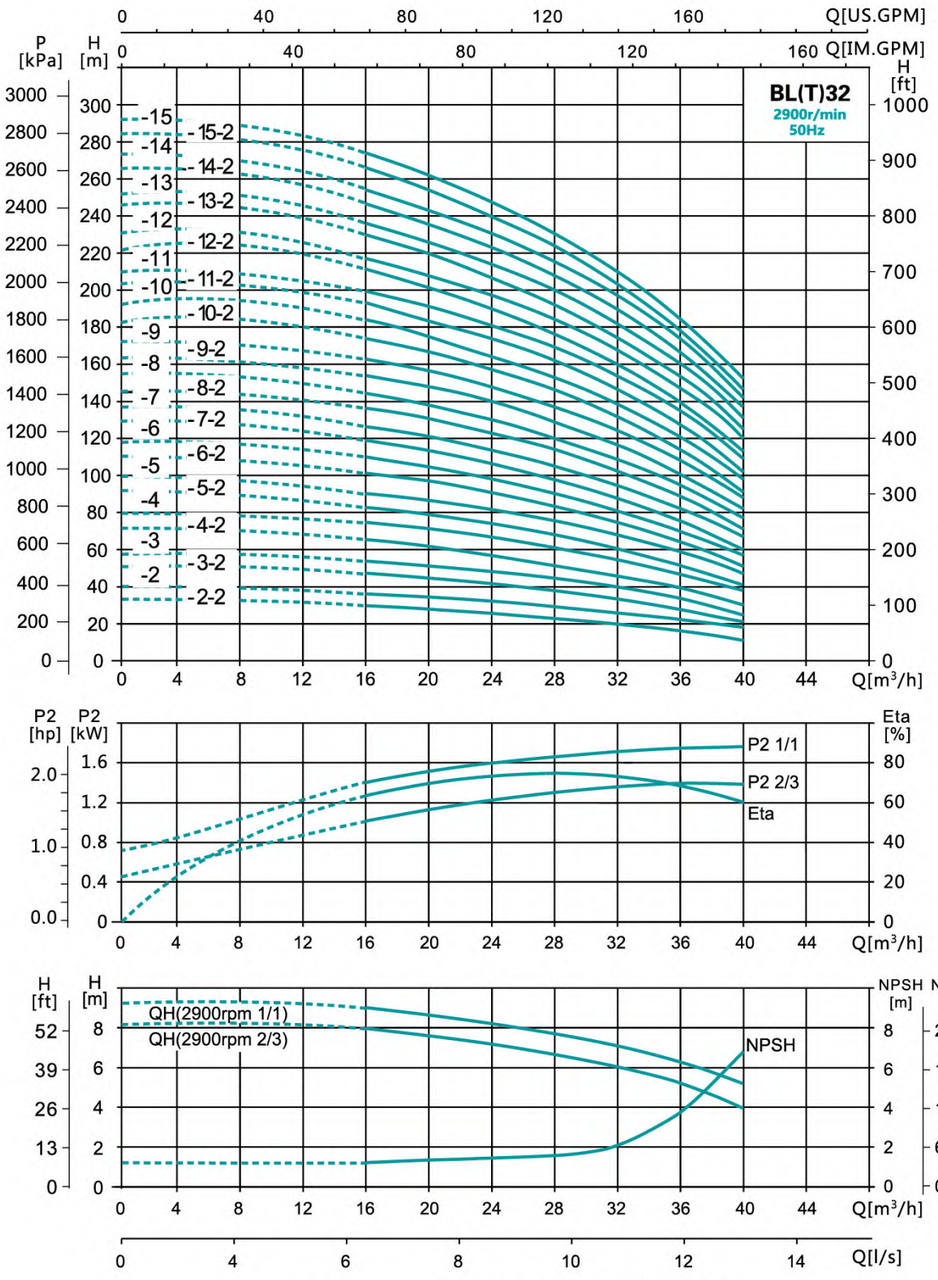
Model	Power		Caliber	Q (m³/h)	14	16	18	20	22	24	26	28	Head Range (m)
	kW	HP											
BL(T)20-2	2.2	3			26	25	24	23	22	20	18	15	26~15
BL(T)20-3	4	5.5			39	38	37	35	33	30	27	24	39~24
BL(T)20-4	5.5	7.5			52	51	49	47	44	41	37	33	52~33
BL(T)20-5	5.5	7.5			64	62	60	58	55	50	45	40	64~40
BL(T)20-6	7.5	10	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

Dimensions

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



Performance Curve - BL(T) 32

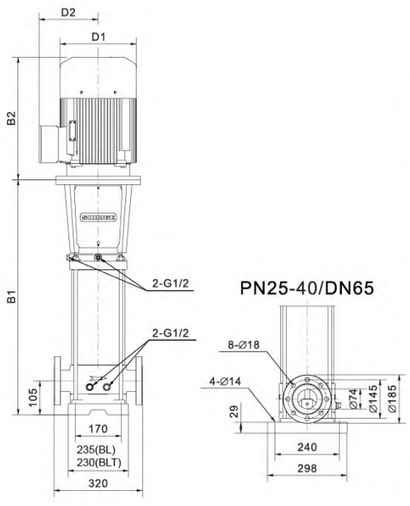


It is recommended to be used within lift range.

Performance Table

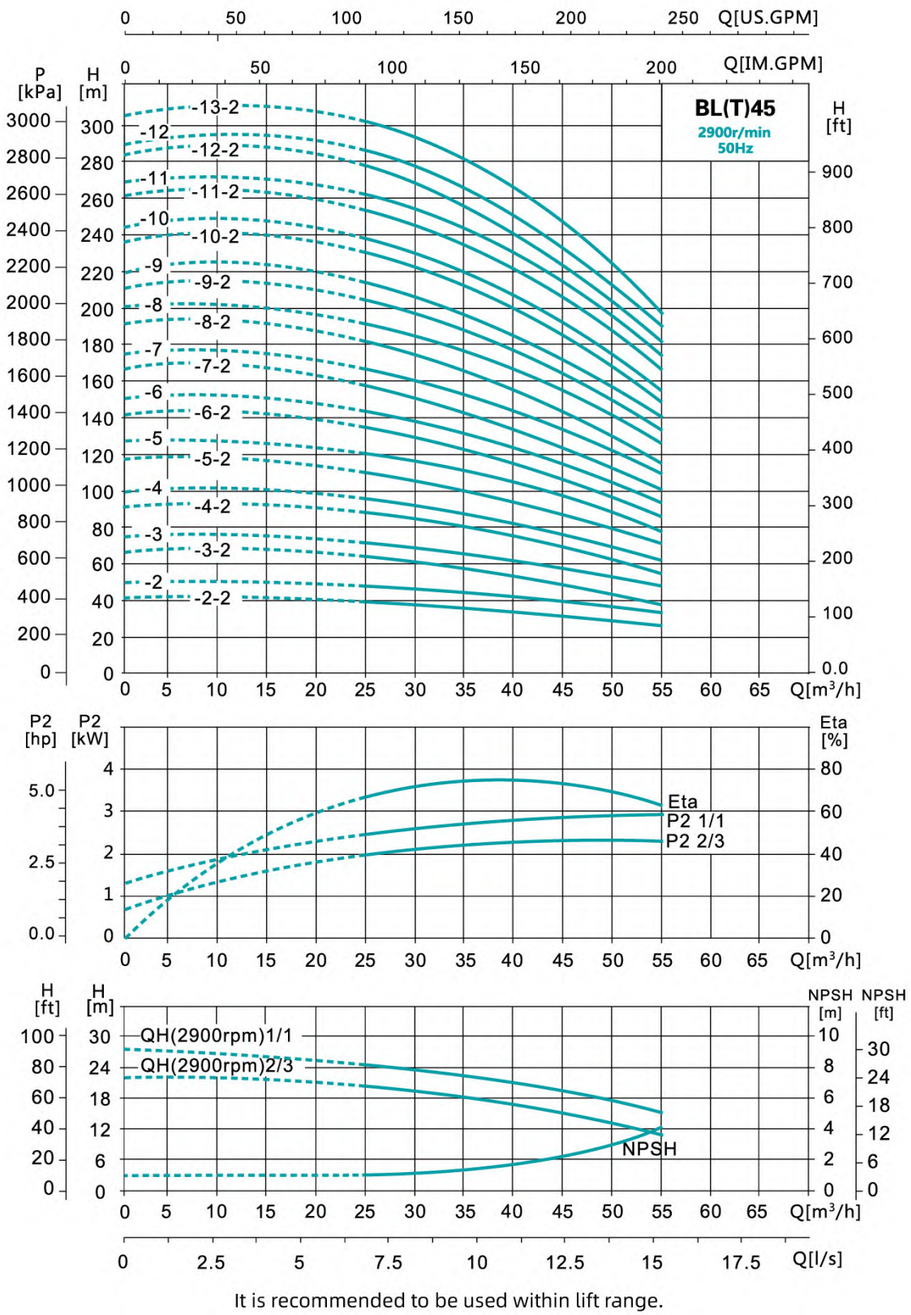
Model	Power kW	Power HP	Caliber	Q (m³/h)	16	20	24	28	32	36	40	Head Range (m)
BL(T)32-2-2	3	4	DN65	H(m)	29	28	26	23	20	16	11	29~11
BL(T)32-2	4	5.5			36	34	32	29	27	23	18	36~18
BL(T)32-3-2	5.5	7.5			47	44	41	38	33	28	21	47~21
BL(T)32-3	5.5	7.5			54	51	48	44	40	35	27	54~27
BL(T)32-4-2	7.5	10			65	62	58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

Dimensions



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

Performance Curve - BL(T) 45

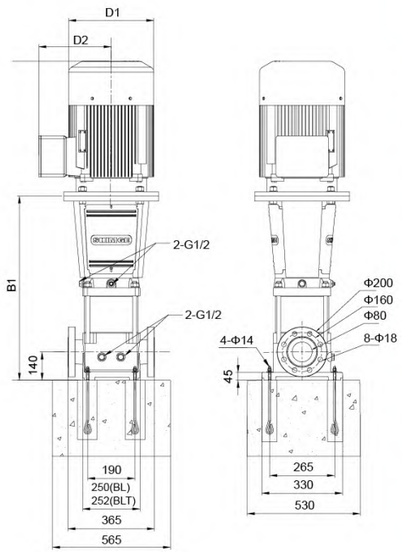


It is recommended to be used within lift range.

Performance Table

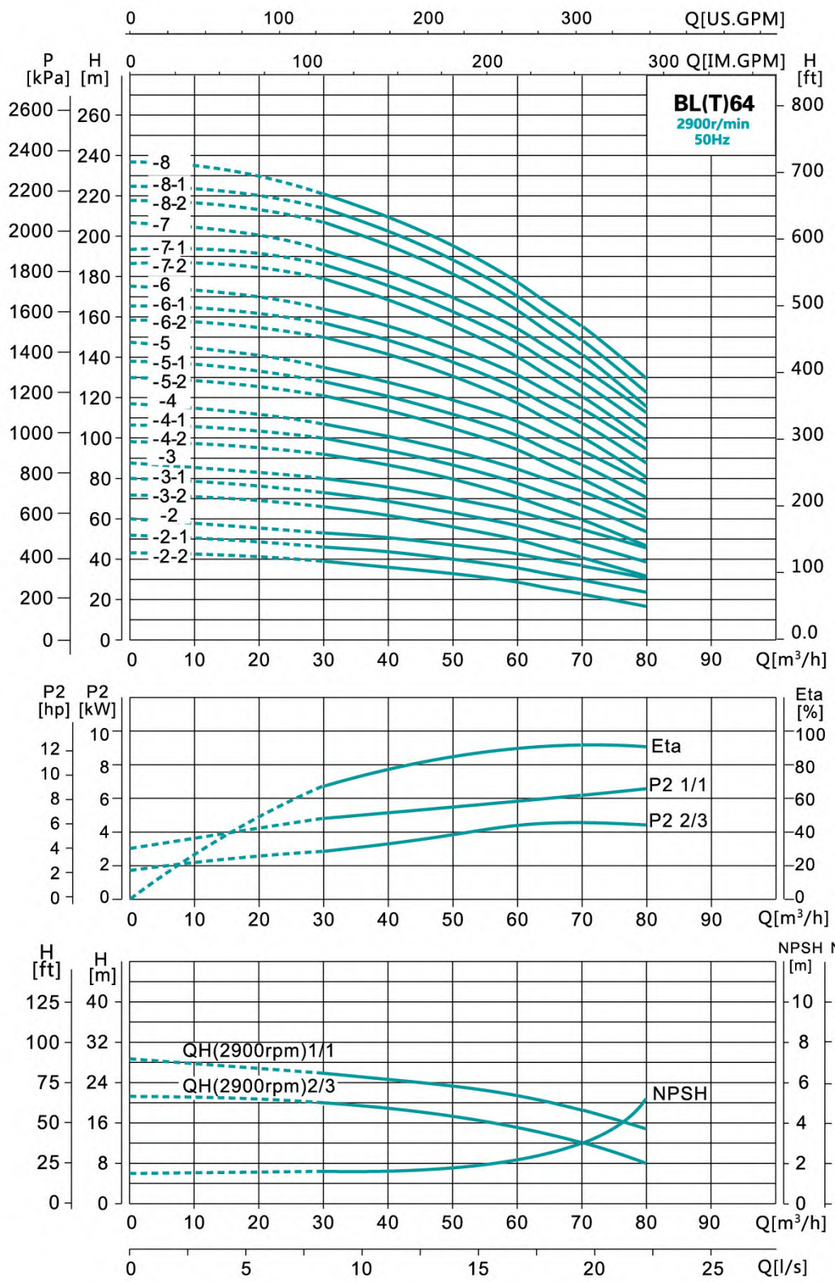
Model	Power		Caliber	Q (m^3/h)	25	30	35	40	45	50	55	Head Range (m)
	kW	HP										
BL(T)45-2-2	5.5	7.5			40	38	36	33	30	27	23	40~23
BL(T)45-2	7.5	10			48	46	44	42	39	35	31	48~31
BL(T)45-3-2	11	15			63	61	58	54	50	44	38	63~38
BL(T)45-3	11	15			71	69	66	63	58	53	47	71~47
BL(T)45-4-2	15	20			87	84	80	75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

Dimensions



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

Performance Curve - BL(T)64

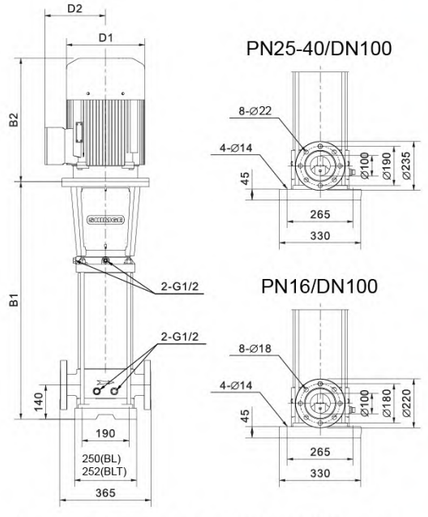


It is recommended to be used within lift range.

Performance Table

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

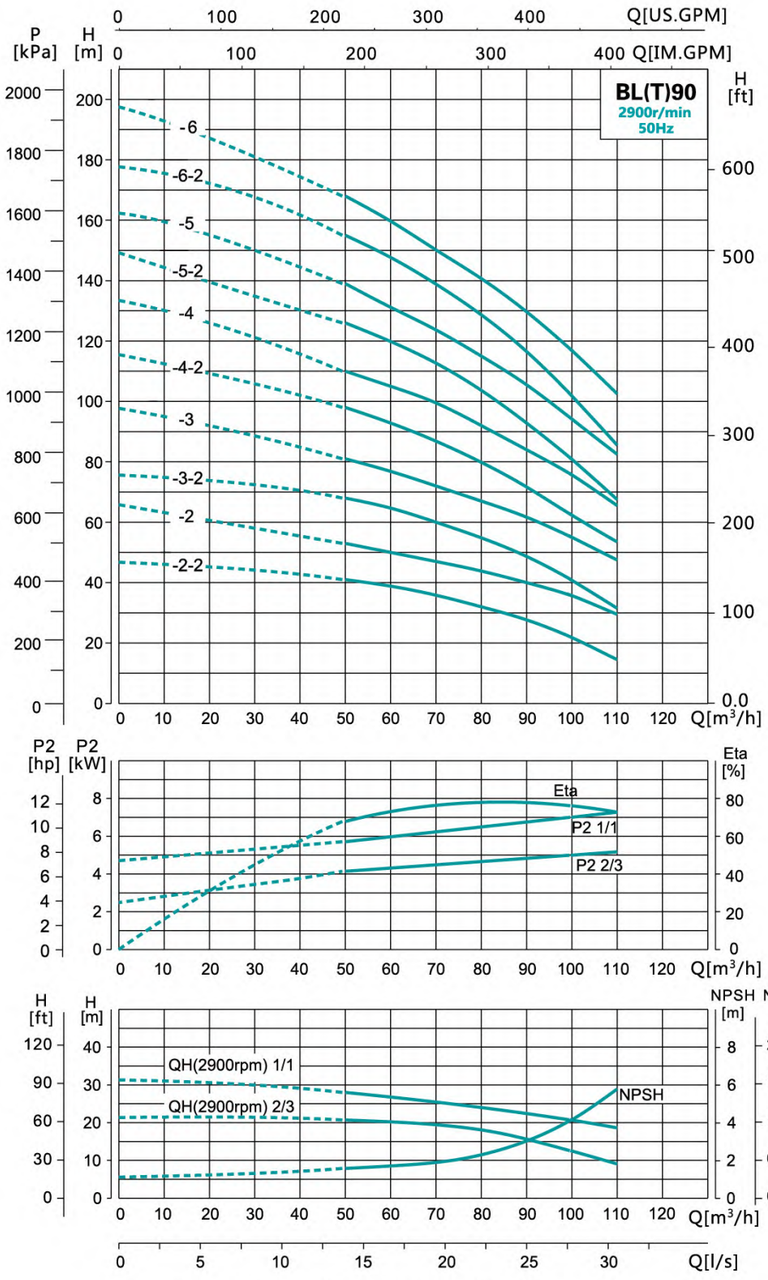
Dimensions



* Note: BL (T) 64 series can also provide PN25-40/DN100 standard flanges according to customer requirements

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

Performance Curve - BL(T)90

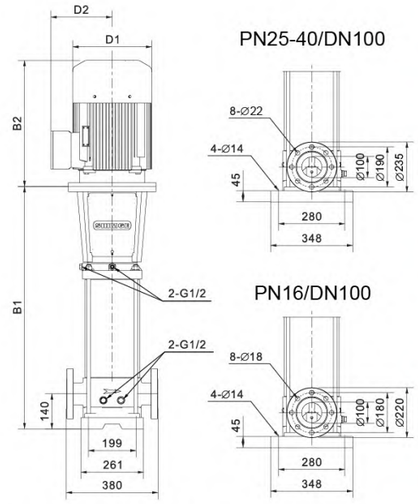


It is recommended to be used within lift range.

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

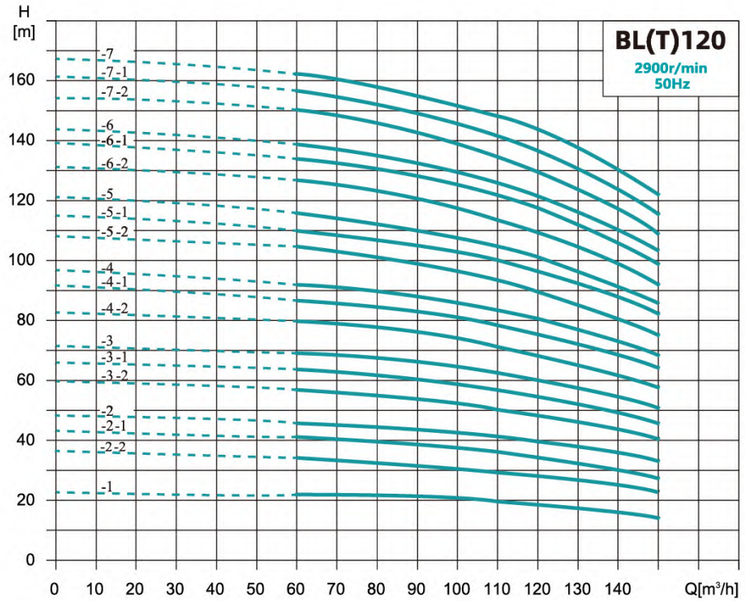
Dimensions

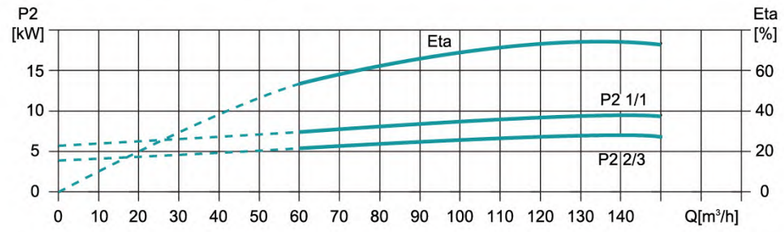


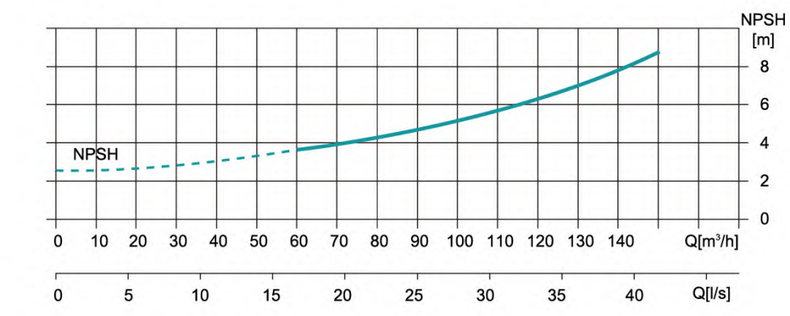
* Note: BL {T) 90 series can also provide PN25-40/DN100 standard flanges according to customer requirements

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

Performance Curve - BL(T)120





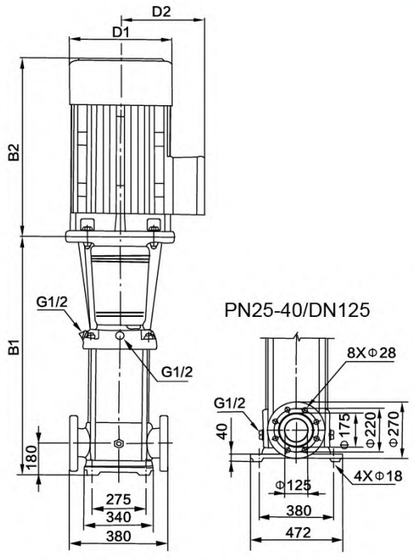


It is recommended to be used within lift range.

Performance Table

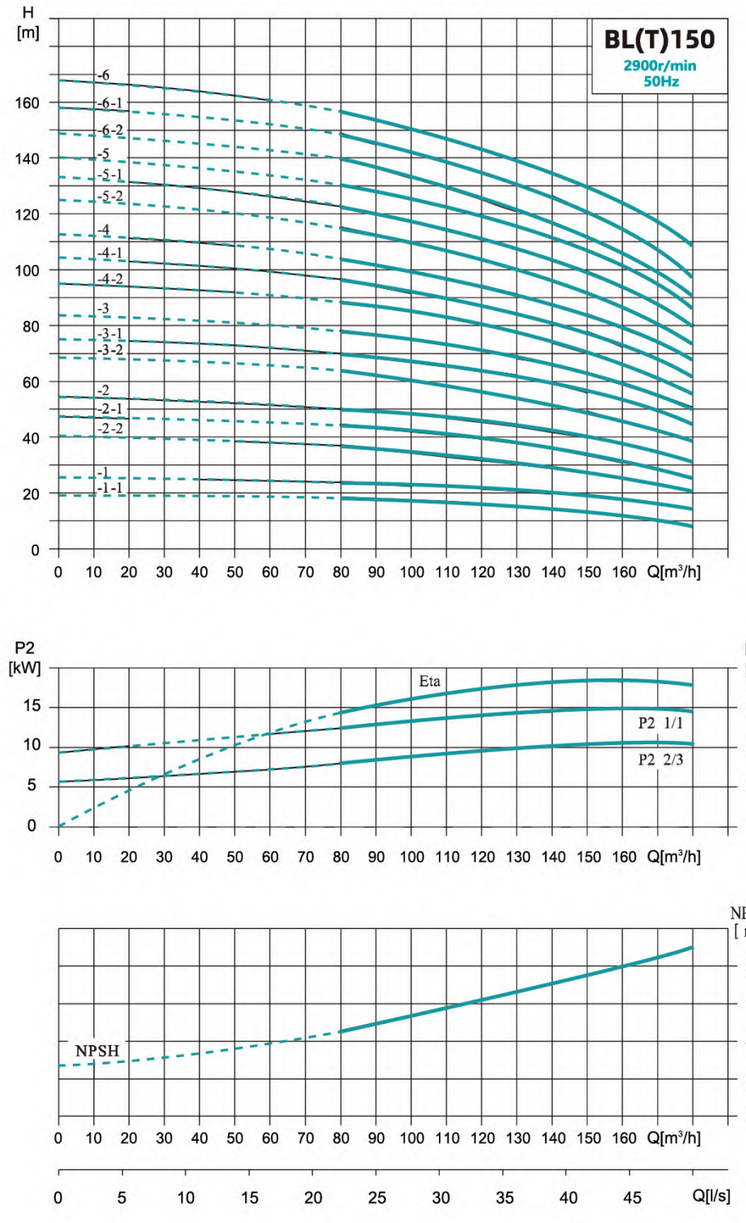
Model	Power		Caliber	Q (m³/h)	60	70	80	90	100	110	120	130	140	150	Head Range (m)
	kW	HP													
BL(T)120-1	11	15			22	21.8	21.6	21	20.5	19.5	18.5	17	16	15	22~15
BL(T)120-2-2	15	20			34	33.6	33	31	30.2	30	28.5	27	25	24	34~24
BL(T)120-2-1	18.5	25			41	40	39.5	38.5	37	36.5	34.5	32.5	30	27.5	41~27.5
BL(T)120-2	22	30			46	45	44.5	43.5	42.4	41	40	38	36	33.5	46~33.5
BL(T)120-3-2	30	40			57	56	55	53.5	52	51	49	46.5	43.5	41	57~41
BL(T)120-3-1	30	40			64	63	62	60	58.5	57.5	55.5	52	49	46	64~46
BL(T)120-3	30	40			69.5	68.5	67.5	66	64.4	62.5	61	57.5	54.5	51	69.5~51
BL(T)120-4-2	37	50			80.5	79	78	76	73.5	72	69	66	61.5	58	58~80.5
BL(T)120-4-1	37	50			87	86	84.5	82	80	78	76	72	68	64.5	87~64.5
BL(T)120-4	45	60	DN125	H(m)	92.5	91	90	88	85.5	83	81	77	73	68.5	92.5~68.5
BL(T)120-5-2	45	60			104. 5	103	101	99	96	93	90	85.5	80.5	75.5	104.5~75.5
BL(T)120-5-1	45	60			110. 5	109	107.5	105	102	100	97	92	86.5	83	110.5~83
BL(T)120-5	55	75			115. 5	114	113	110	107.5	104.5	101.5	96	91	86	115.5~86
BL(T)120-6-2	55	75			128	125.5	123	121	117.3	113.5	110	104.5	98.5	92.5	128~92.5
BL(T)120-6-1	55	75			134	132	130.5	127	124	121	118	111	105	100	134~100
BL(T)120-6	75	100			139	137	135	132	128.8	126	123	116	110	104	139~104
BL(T)120-7-2	75	100			151	148	145.5	143	138.6	134	130	123.5	116.5	109	151~109
BL(T)120-7-1	75	100			156. 5	154	152	148.5	144.5	141	137.5	130	123	116.5	156.5~116.5
BL(T)120-7	75	100			162. 5	160.5	158.5	155	151	148	145	137	129	123	162.5~123

Dimensions



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

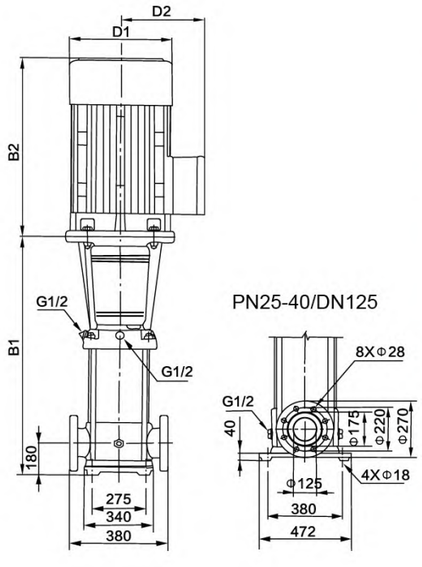
Performance Curve - BL(T)150



It is recommended to be used within lift range.

Performance Table

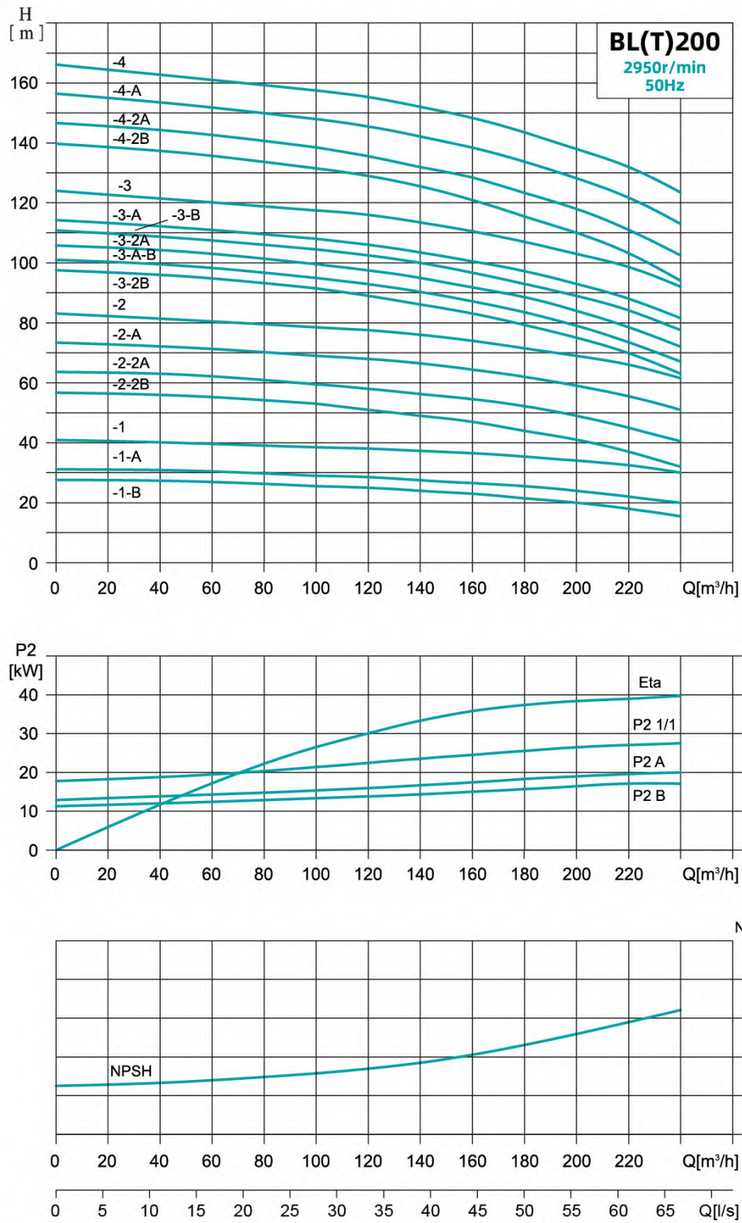
Model	Power		Caliber	Q (m³/h)	80	90	100	110	120	130	140	150	160	170	180	Head Range (m)
	kW	HP														
BL(T)150-1-1	11	15			18.3	17.8	17.3	17	16	15	14	12.5	11	10	8.5	18.3~8.5
BL(T)150-1	15	20			24	23	22.5	22	21.5	20.5	20	18.5	17	16	15	24~15
BL(T)150-2-2	18.5	25			37	35.5	34	33	32	31	29	27.5	26	23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



Dimensions

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

Performance Curve - BL(T)200

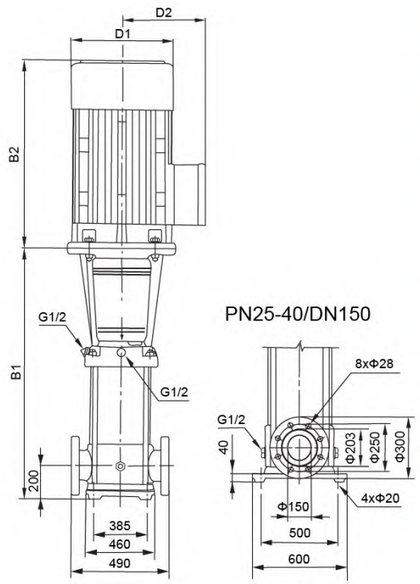


Performance Table

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

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

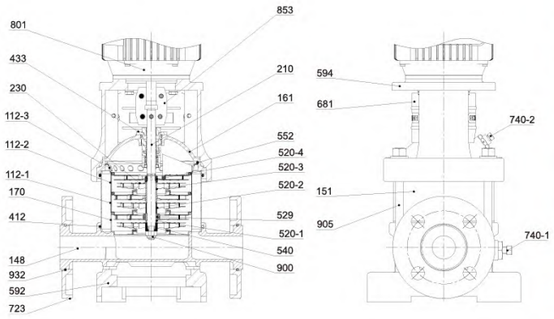
Dimensions



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

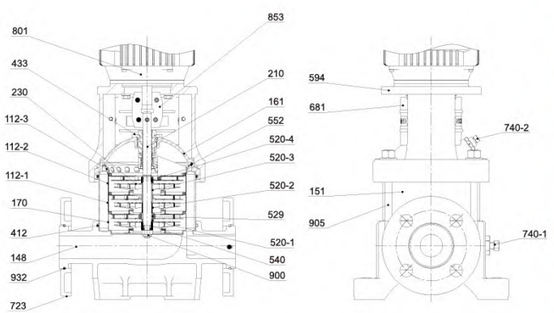
Components & Materials

BL2 BL4



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

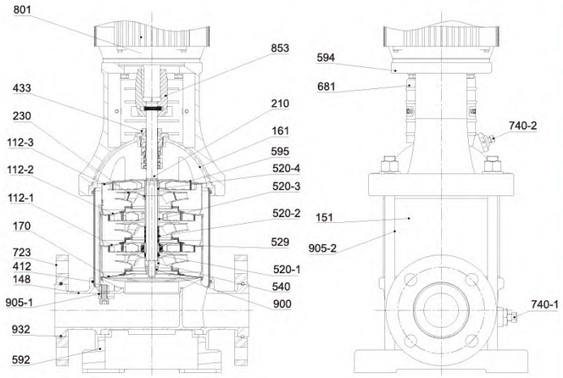
BLT2 BLT4



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

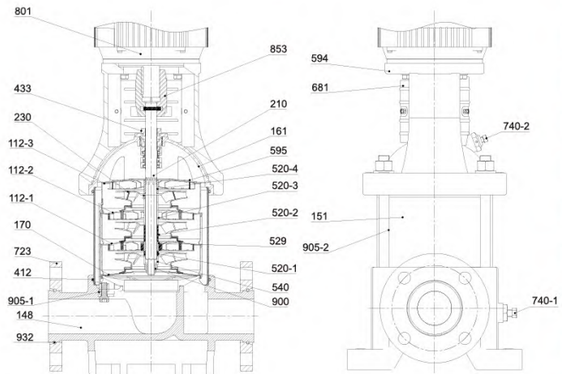
Components & Materials

BL8 BL12 BL16 BL20



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

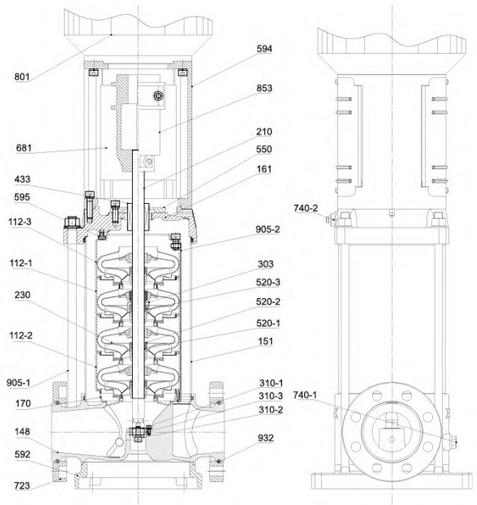
BLT8 BLT12 BLT16 BLT20



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

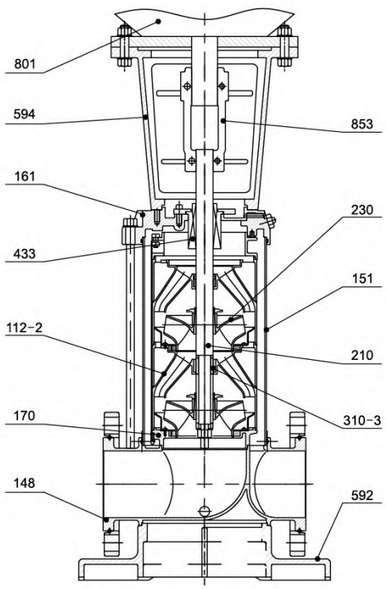
Components & Materials

BL(T)32-90



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

BL(T)120-200



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

Packing Sizes & Weight

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

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

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

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

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

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

Packing Sizes & Weight

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

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

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

Packing Sizes & Weight

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

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

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

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