

TERAL

SBL4 4-Pole **SBL 2-Pole**
End-Suction Centrifugal Pumps

50 Hz • 60 Hz



Since 1918 in Japan

SBL4 /SBL

End-Suction Centrifugal Pump
(Back-pull-out Type)

■ Applications

- General water supply in dwelling houses, city buildings, etc.
- Circulation of cold and/or hot water
- Industrial use
- Water supplying for boiler or pressure-booster
- Irrigation and sprinkler

■ Features

● Stout

Massive structure can stand against high positive suction pressure.

● Back-Pull-Out

This back-pull-out construction ensures easy disassembling without removing suction and discharge pipes. So the maintenance is very easy.

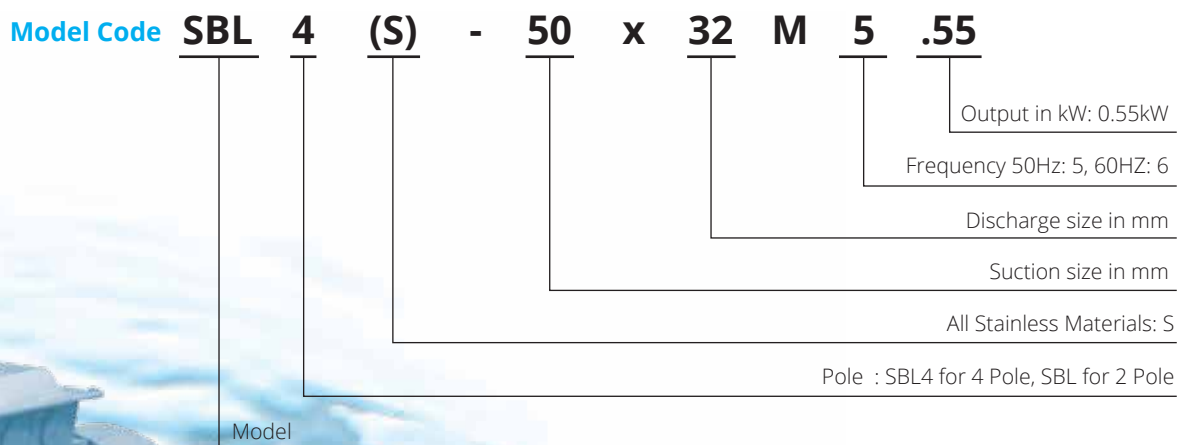
● Pump Performance

High total head with a single stage up to 140m.

● Wide Specification

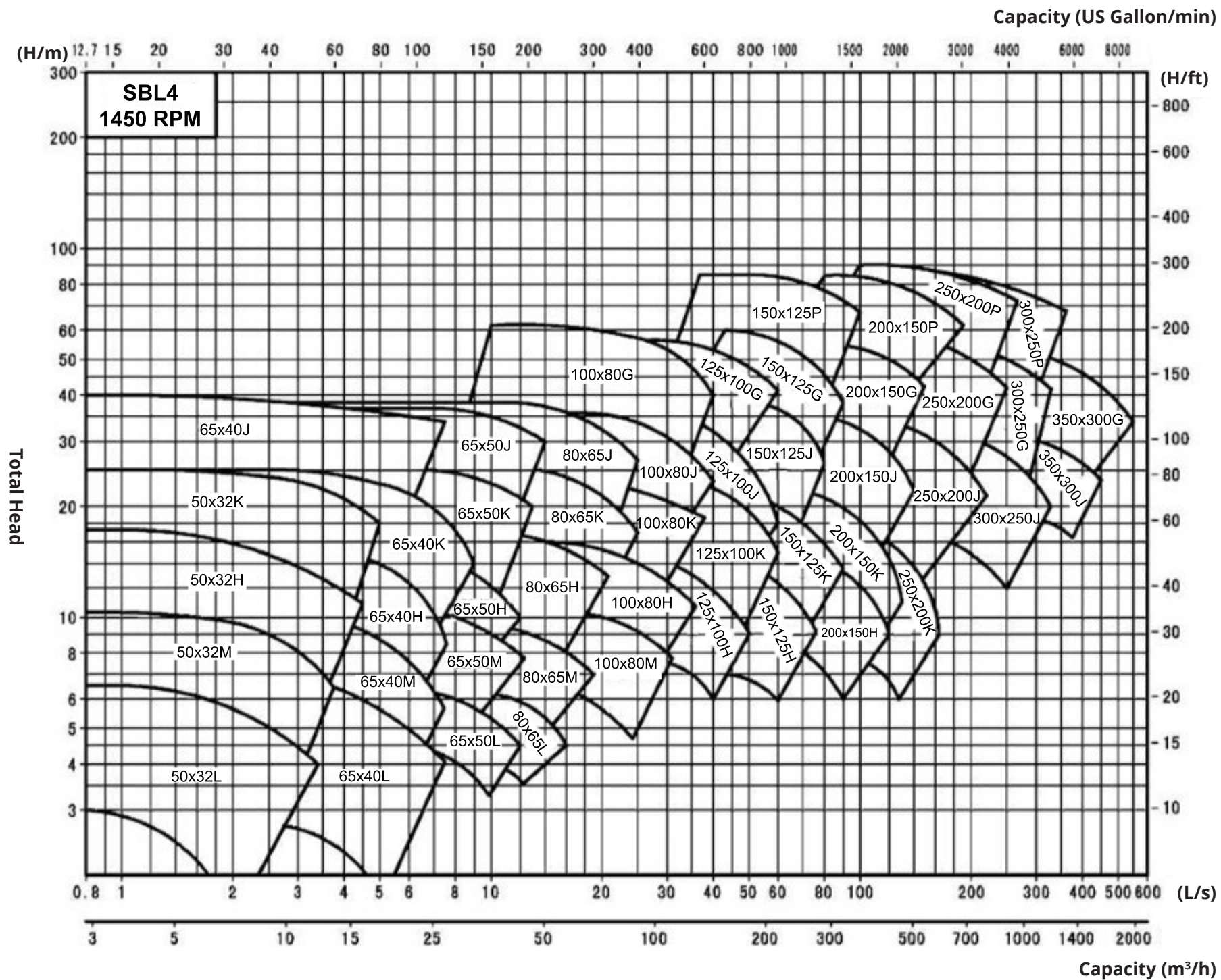
This model can be modified to such various material specifications.





■ Specifications

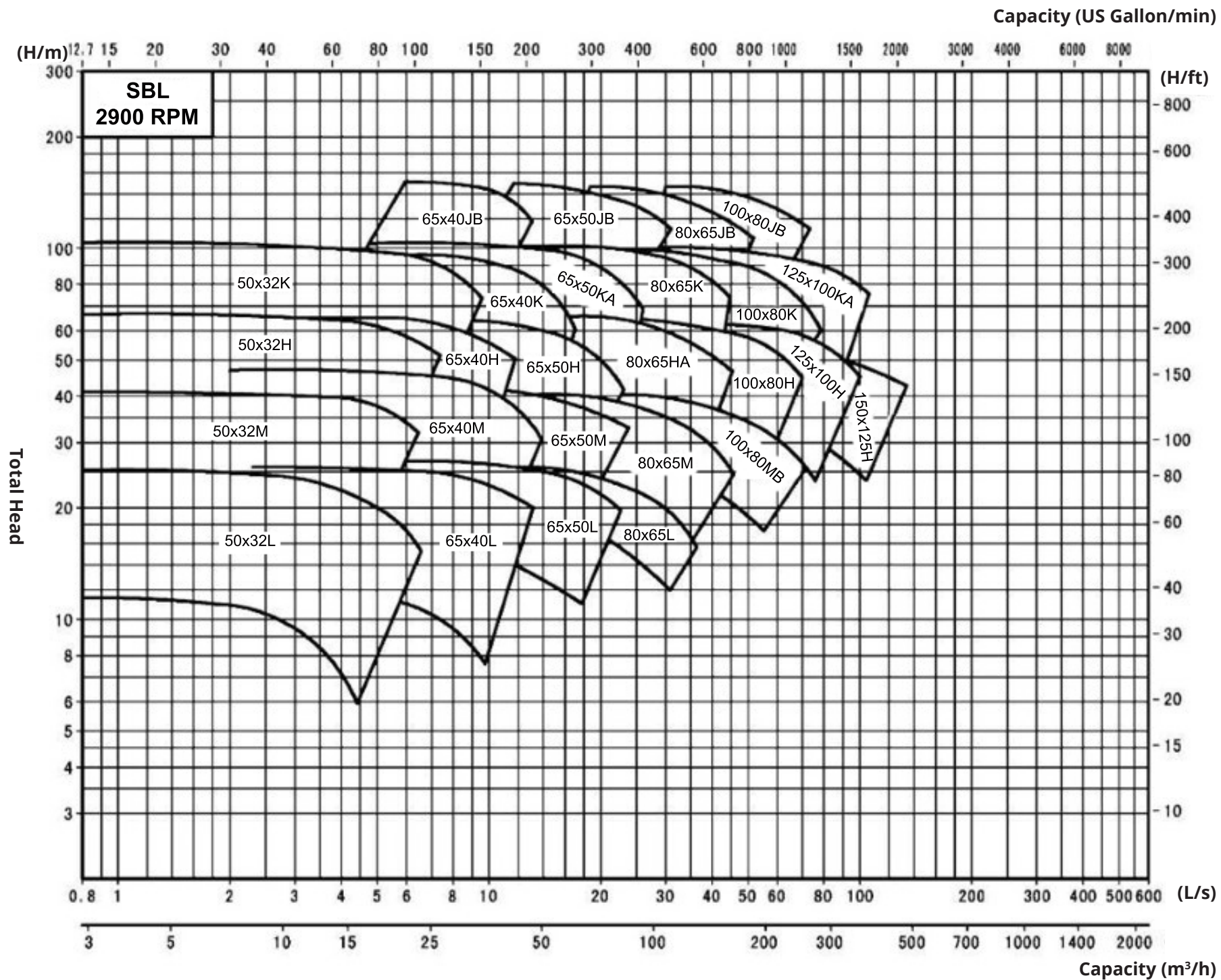
- **Liquid** : Fresh Water (-10°C ~ 80°C) Option : up to 120°C
- **Re. NPSH** : See the individual characteristic curve
- **Max suc. Press** : $16\text{kgf/cm}^2 - \frac{\text{shut off head}}{10} (\text{kgf/cm}^2)$
- **Max working Press** : 16kgf/cm^2 Option : 25kgf/cm^2
- **Revolution** : 1500(SBL4) or 3000(SBL)min-1 at 50Hz
: 1800(SBL4) or 3600(SBL)min-1 at 60Hz
- **Structure**
 - Impeller** : Closed
 - Shaft seal** : Mechanical seal (or Gland packing)
 - Bearing** : Open ball bearing
- **Material**
 - Impeller** : Cast iron (FC250)/ Bronze (CAC406) Option : Stainless Steel Casting (SCS14)
 - Shaft** : Stainless steel (SUS420J1) Option : Stainless Steel (SUS431)
 - Casing** : Cast iron (FC250) Option : Stainless Steel Casting (SCS14)
Ductile Cast Iron (FCD450)



SBL4 Selection charts (50Hz)

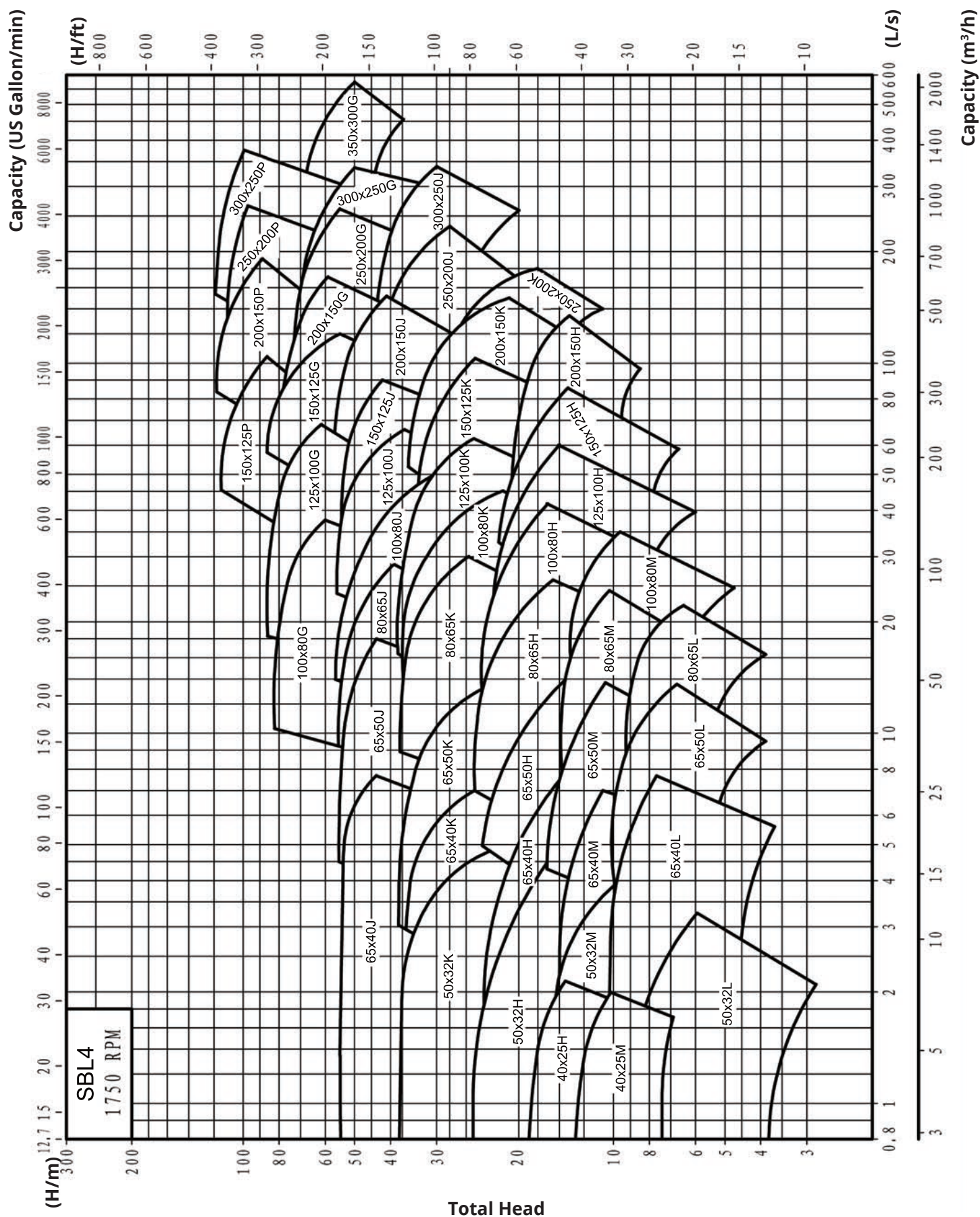
SBL4 / SBL

End-Suction Centrifugal Pump
(Back-pull-out Type)

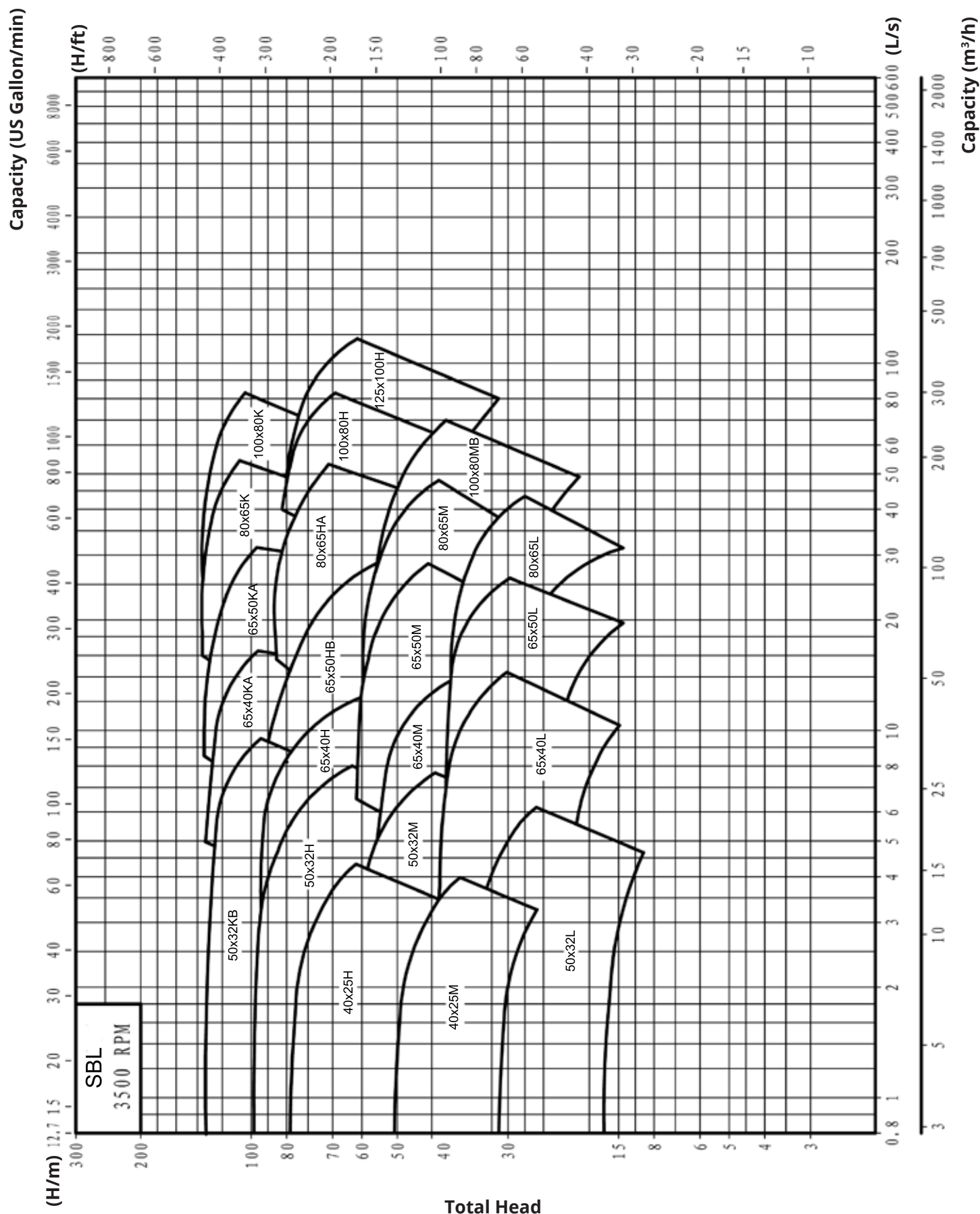


SBL Selection charts (50Hz)

SBL4 Selection charts (60Hz)

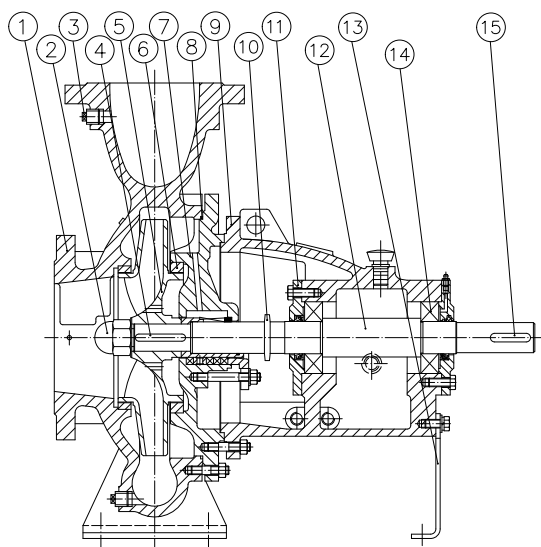


SBL Selection charts (60Hz)



SBL4 / SBL End-Suction Centrifugal Pump (Back-pull-out Type)

Sectional View

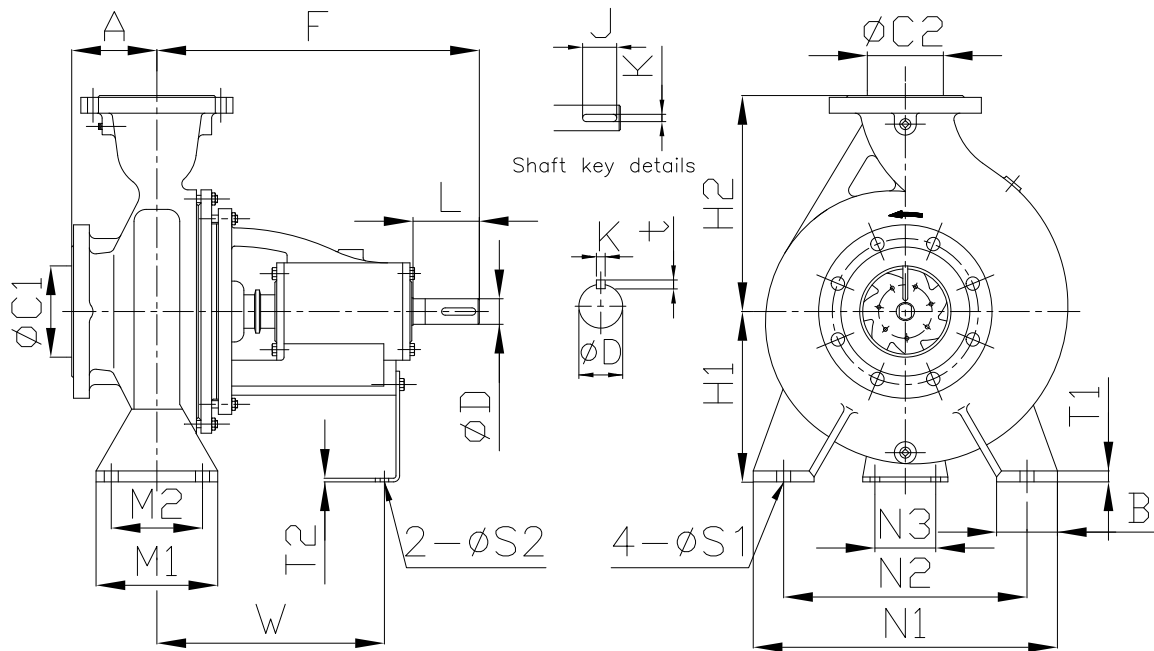


No	Parts Description	Qty	Materials
1	Casing	1	Cast Iron
2	Impeller nut	1	Stainless Steel/ Bronze
3	Plug	1	Steel
4	Impeller key	1	Stainless Steel
5	Impeller	1	Cast Iron/ Bronze
6	Wear ring	1	Cast Iron/ Bronze
7	Casing cover	1	Cast Iron
8	O ring	1	NBR
9	Bearing case	1	Cast Iron
10	Water deflector	1	Rubber
11	Bearing cover	1	Cast Iron
12	Shaft	1	Stainless Steel
13	Supporter	1	Steel
14	Bearing	2	
15	Coupling key	1	Steel

Design Detail

Pump Model		Bearing		Dimension at coupling		Mechanical seal	Gland packing Size - Nos.
4 pole	2 pole	Coupling side	Impeller side	Diameter D	Key size K x t x J		
SBL4-40X25M, H	SBL-40X25M, H	6305	6305	24	8 x 7 x 32	MB1-32/MG1-32	Ø32 x φ48 x 8 ~ 3
SBL4-50X32L, M, H, K	SBL-50X32L, M, H, K	6305	6305	24	8 x 7 x 32	MB1-24/MG1-24	Ø32 x φ48 x 8 ~ 3
N.A.	SBL-50X32KB	3306	3306	28	8 x 7 x 32	MB1-28/MG1-28	φ36 x φ52 x 8 ~ 3
SBL4-65X40L, M, H, K	SBL-65X40L, M, H, K	6305	6305	24	8 x 7 x 32	MB1-24/MG1-24	Ø32 x φ48 x 8 ~ 3
N.A.	SBL-65X40KA	6307	6307	32	10 x 8 x 40	MB1-32/MG1-32	φ40 x φ60 x 10 ~ 4
SBL4-65X40J	N.A.	6307	6307	32	10 x 8 x 40	MB1-32/MG1-32	Ø40 x φ60 x 10 ~ 4
N.A.	SBL-65X40JB	3307	3307	32	10 x 8 x 40	MB1-32/MG1-32	Ø40 x φ60 x 10 ~ 4
SBL4-65X50L, M, H, K	SBL-65X50L, M, H	6305	6305	24	8 x 7 x 32	MB1-24/MG1-24	Ø32 x φ48 x 8 ~ 3
N.A.	SBL-65X50HB	6306	6306	28	8 x 7 x 32	MB1-28/MG1-28	φ36 x φ52 x 8 ~ 3
N.A.	SBL-65X50KA	6307	6307	32	10 x 8 x 40	MB1-32/MG1-32	Ø40 x φ60 x 10 ~ 4
SBL4-65X50J	N.A.	6307	6307	32	10 x 8 x 40	MB1-32/MG1-32	Ø40 x φ60 x 10 ~ 4
N.A.	SBL-65X50JB	3307	3307	32	10 x 8 x 40	MB1-32/MG1-32	Ø40 x φ60 x 10 ~ 4
SBL4-80X65L, M, H	SBL-80X65L, M	6305	6305	24	8 x 7 x 32	MB1-24/MG1-24	Ø32 x φ48 x 8 ~ 3
N.A.	SBL-80X65HA	6307	6307	32	10 x 8 x 40	MB1-32/MG1-32	Ø40 x φ60 x 10 ~ 4
SBL4-80X65K	SBL-80X65K	6307	6307	32	10 x 8 x 40	MB1-32/MG1-32	Ø40 x φ60 x 10 ~ 3
SBL4-80X65J	N.A.	6307	6307	32	10 x 8 x 40	MB1-32/MG1-32	Ø40 x φ60 x 10 ~ 4
N.A.	SBL-80X65JB	3307	3307	32	10 x 8 x 40	MB1-32/MG1-32	Ø40 x φ60 x 10 ~ 4
SBL4-100X80M	N.A.	6305	6305	24	8 x 7 x 32	MB1-24/MG1-24	Ø32 x φ48 x 8 ~ 3
N.A.	SBL-100X80MB	3306	3306	28	8 x 7 x 32	MB1-28/MG1-28	Ø36 x φ52 x 8 ~ 3
SBL4-100X80H, K	SBL-100X80H, K	6307	6307	32	10 x 8 x 40	MB1-32/MG1-32	Ø40 x φ60 x 10 ~ 3
SBL4-100X80J	N.A.	6307	6307	32	10 x 8 x 40	MB1-32/MG1-32	Ø40 x φ60 x 10 ~ 4
N.A.	SBL-100X80JB	3307	3307	32	10 x 8 x 40	MB1-32/MG1-32	Ø40 x φ60 x 10 ~ 4
SBL4-100X80G	N.A.	6309	6309	42	12 x 8 x 56	MB1-43/MG1-43	Ø55 x φ75 x 10 ~ 4
SBL4-125X100H, K	SBL-125X100H	6307	6307	32	10 x 8 x 40	MB1-32/MG1-32	Ø40 x φ60 x 10 ~ 3
N.A.	SBL-125X100KA	6309	6309	42	12 x 8 x 56	MB1-43/MG1-43	Ø55 x φ75 x 10 ~ 4
SBL4-125X100J	N.A.	6307	6307	32	10 x 8 x 40	MB1-32/MG1-32	Ø40 x φ60 x 10 ~ 4
N.A.	SBL-125X100JB	6309	6309	42	12 x 8 x 56	MB1-43/MG1-43	Ø55 x φ75 x 10 ~ 4
SBL4-125X100G	N.A.	6309	6309	42	12 x 8 x 56	MB1-43/MG1-43	Ø55 x φ75 x 10 ~ 4
SBL4-150X125H, K	SBL-150X125H	6307	6307	32	10 x 8 x 40	MB1-32/MG1-32	Ø40 x φ60 x 10 ~ 3
SBL4-150X125J, G	N.A.	6309	6309	42	12 x 8 x 56	MB1-43/MG1-43	Ø55 x φ75 x 10 ~ 4
SBL4-150X125P	N.A.	6312	6312	55	16 x 10 x 100	MB1-60/MG1-60	Ø80 x φ110 x 15 ~ 5
SBL4-200X150H	N.A.	6307	6307	32	10 x 8 x 40	MB1-32/MG1-32	Ø40 x φ60 x 10 ~ 4
SBL4-200X150K, J, G	N.A.	6309	6309	42	12 x 8 x 56	MB1-43/MG1-43	Ø55 x φ75 x 10 ~ 4
SBL4-200X150P	N.A.	6312	6312	55	16 x 10 x 100	MB1-60/MG1-60	Ø80 x φ110 x 15 ~ 5
SBL4-250X200K	N.A.	6309	6309	42	12 x 8 x 56	MB1-43/MG1-43	Ø55 x φ75 x 10 ~ 4
SBL4-250X200J	N.A.	6311	6311	48	14 x 9 x 100	MB1-55/MG1-55	Ø70 x φ95 x 12 ~ 5
SBL4-250X200G	N.A.	6312	6312	55	16 x 10 x 100	MB1-55/MG1-55	Ø70 x φ95 x 12 ~ 5
SBL4-250X200P	N.A.	6312	6312	55	16 x 10 x 100	MB1-60/MG1-60	Ø80 x φ110 x 15 ~ 5
SBL4-300X250J	N.A.	6311	6311	48	14 x 9 x 100	MB1-55/MG1-55	Ø70 x φ95 x 12 ~ 5
SBL4-300X250G	N.A.	6312	6312	55	16 x 10 x 100	MB1-60/MG1-60	Ø80 x φ110 x 15 ~ 5
SBL4-300X250P	N.A.	3315	NU315	70	20 x 12 x 120	MB1-70/MG1-70	Ø90 x φ120 x 15 ~ 5
SBL4-350X300J	N.A.	3315	6315	70	20 x 12 x 120	MB1-70/MG1-70	Ø90 x φ120 x 15 ~ 5
SBL4-350X300G	N.A.	3315	NU316	70	20 x 12 x 120	MB1-70/MG1-70	Ø90 x φ120 x 15 ~ 5

Dimensions (Bare shaft Pump)



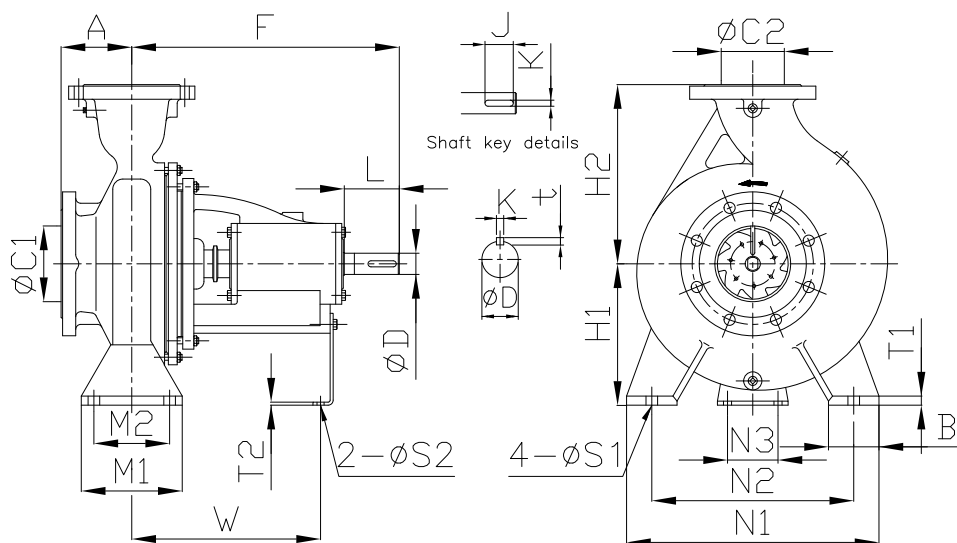
*Key size are shown on "Design Detail"

Size		Pump Model		Dimensions																
øC1	øC2	4 pole	2 pole	A	B	D	F	H1	H2	L	M1	M2	N1	N2	N3	S1	S2	T1	T2	W
40	25	SBL4-40X25M	SBL-40X25M	80	40	24	336	130	140	50	75	55	190	150	110	10	14	12	6	246
		SBL4-40X25H	SBL-40X25H	80	45	24	336	150	180	50	95	65	245	200	110	14	14	14	6	243
50	32	SBL4-50X32L	SBL-50X32L	80	50	24	360	112	140	50	100	70	190	140	110	14	14	14	6	267
		SBL4-50X32M	SBL-50X32M	80	50	24	360	132	160	50	100	70	240	190	110	14	14	14	6	267
		SBL4-50X32H	SBL-50X32H	80	50	24	360	160	180	50	100	70	240	190	110	14	14	14	6	267
		SBL4-50X32K	SBL-50X32K	100	65	24	360	180	225	50	125	95	320	250	110	14	14	14	6	267
		N.A.	SBL-50X32KB	100	65	28	360	180	225	50	125	95	320	250	110	14	14	14	6	267
65	40	SBL4-65X40L	SBL-65X40L	80	50	24	360	112	140	50	100	70	210	160	110	14	14	14	6	267
		SBL4-65X40M	SBL-65X40M	80	50	24	360	132	160	50	100	70	240	190	110	14	14	14	6	267
		SBL4-65X40H	SBL-65X40H	100	50	24	360	160	180	50	100	70	265	212	110	14	14	14	6	267
		SBL4-65X40K	SBL-65X40K	100	65	24	360	180	225	50	125	95	320	250	110	14	14	14	6	267
		N.A.	SBL-65X40KA	100	65	32	468	180	225	80	125	95	320	250	110	14	14	14	6	341
		SBL4-65X40J	N.A.	125	65	32	470	200	225	80	125	95	345	280	110	14	14	14	6	342
		N.A.	SBL-65X40JB	125	65	32	470	200	225	80	125	95	345	280	110	14	14	14	6	342
65	50	SBL4-65X50L	SBL-65X50L	100	50	24	360	132	160	50	100	70	240	190	110	14	14	14	6	267
		SBL4-65X50M	SBL-65X50M	100	50	24	360	160	180	50	100	70	265	212	110	14	14	14	6	267
		SBL4-65X50H	SBL-65X50H	100	50	24	360	160	200	50	100	70	265	212	110	14	14	14	6	267
		N.A.	SBL-65X50HB	100	50	28	360	160	200	50	100	70	265	212	110	14	14	14	6	267
		SBL4-65X50K	N.A.	100	65	24	360	180	225	50	125	95	320	250	110	14	14	14	6	267
		N.A.	SBL-65X50KA	100	65	32	468	180	225	80	125	95	320	250	110	14	14	14	6	341
		SBL4-65X50J	N.A.	125	65	32	470	225	280	80	125	95	345	280	110	14	14	16	6	342
		N.A.	SBL-65X50JB	125	65	32	470	225	280	80	125	95	345	280	110	14	14	16	6	342
80	65	SBL4-80X65L	SBL-80X65L	100	65	24	360	160	180	50	125	95	280	212	110	14	14	14	6	267
		SBL4-80X65M	SBL-80X65M	100	65	24	360	160	200	50	125	95	280	212	110	14	14	14	6	267
		SBL4-80X65H	N.A.	100	65	24	360	180	225	50	125	95	320	250	110	14	14	14	6	267
		N.A.	SBL-80X65HA	100	65	32	468	180	225	80	125	95	320	250	110	14	14	14	6	328
		SBL4-80X65K	SBL-80X65K	100	80	32	470	200	250	80	160	120	360	280	110	16	14	16	6	342
		SBL4-80X65J	N.A.	125	80	32	470	225	280	80	160	120	400	315	110	18	14	16	6	342
		N.A.	SBL-80X65JB	125	80	32	470	225	280	80	160	120	400	315	110	18	14	16	6	342

SBL4 / SBL

End-Suction Centrifugal Pump
(Back-pull-out Type)

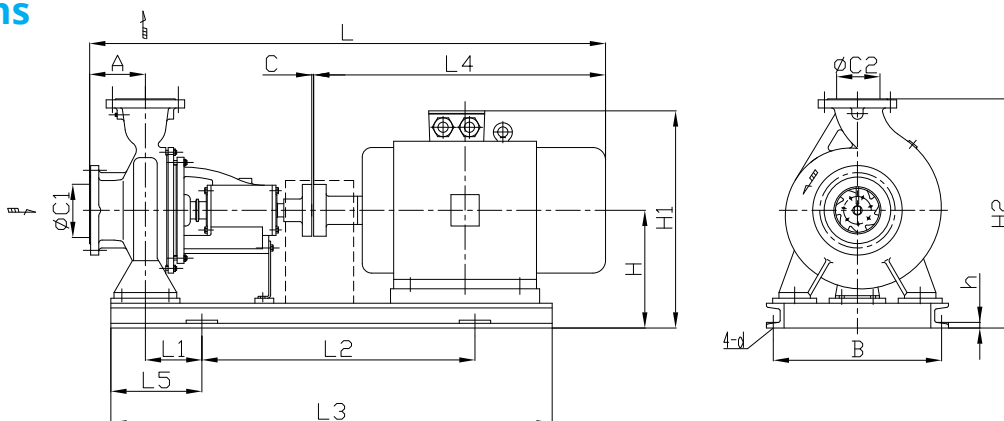
Dimensions (Bare shaft Pump)



*Key size are shown on "Design Detail"

Size		Pump Model		Dimensions																
øC1	øC2	4 pole	2 pole	A	B	D	F	H1	H2	L	M1	M2	N1	N2	N3	S1	S2	T1	T2	W
100	80	SBL4-100X80M	N.A.	125	65	24	360	180	225	50	125	95	320	150	110	14	14	14	6	267
		N.A.	SBL-100X80MB	125	65	28	360	180	225	50	125	95	320	150	110	14	14	14	6	267
		SBL4-100X80H	SBL-100X80H	125	65	32	470	180	250	80	125	95	345	180	110	14	14	14	6	342
		SBL4-100X80K	SBL-100X80K	125	80	32	470	200	280	80	160	120	400	315	110	18	14	16	6	342
		SBL4-100X80J	N.A.	125	80	32	470	250	315	80	160	120	400	315	110	18	14	16	6	342
		N.A.	SBL-100X80JB	125	80	32	470	250	315	80	160	120	400	315	110	18	14	16	6	342
		SBL4-100X80G	N.A.	125	85	42	520	280	355	110	160	120	400	355	110	18	14	16	6	370
125	100	SBL4-125X100H	SBL-125X100H	125	80	32	470	200	280	80	160	120	360	280	110	18	14	16	6	342
		SBL4-125X100K	N.A.	140	80	32	470	225	280	80	160	120	400	315	110	18	14	16	6	342
		N.A.	SBL-125X100KA	140	80	42	520	225	280	110	160	120	400	315	110	18	14	16	6	363
		SBL4-125X100J	N.A.	140	80	32	470	250	315	80	160	120	400	315	110	18	14	16	6	342
		N.A.	SBL-125X100JB	140	80	42	470	250	315	110	160	120	400	315	110	18	14	16	6	342
		SBL4-125X100G	N.A.	140	100	42	530	280	355	100	200	150	500	400	110	23	14	18	6	370
150	125	SBL4-150X125H	SBL-150X125H	140	80	32	470	250	315	80	160	120	400	315	110	18	14	16	6	342
		SBL4-150X125K	N.A.	140	80	32	470	250	355	80	160	120	400	315	110	18	14	16	6	342
		SBL4-150X125J	N.A.	140	100	42	530	280	355	110	200	150	500	400	110	23	14	18	6	370
		SBL4-150X125G	N.A.	140	100	42	530	315	400	110	200	150	500	400	110	23	14	18	6	370
		SBL4-150X125P	N.A.	180	120	55	670	375	500	110	200	150	550	450	140	23	14	25	6	511
200	150	SBL4-200X150H	N.A.	160	100	32	495	280	400	80	200	150	550	450	110	23	14	20	6	342
		SBL4-200X150K	N.A.	160	100	42	530	250	355	110	200	150	450	350	110	23	14	18	6	370
		SBL4-200X150J	N.A.	160	100	42	530	280	400	110	200	150	550	450	110	23	14	18	6	370
		SBL4-200X150G	N.A.	160	100	42	530	315	450	110	200	150	550	450	110	23	14	18	6	370
		SBL4-200X150P	N.A.	180	120	55	670	375	500	110	200	150	550	450	140	23	14	25	6	511
250	200	SBL4-250X200K	N.A.	180	100	42	550	280	400	110	200	150	550	450	110	27	14	25	6	389
		SBL4-250X200J	N.A.	200	100	48	670	355	450	110	200	150	550	450	110	23	14	20	6	511
		SBL4-250X200G	N.A.	200	120	48	670	355	500	110	200	150	550	450	110	23	14	20	6	511
		SBL4-250X200P	N.A.	210	160	55	675	400	500	110	300	240	720	600	140	27	14	30	6	511
300	250	SBL4-300X250J	N.A.	200	100	48	670	355	525	110	250	175	600	500	110	23	14	24	6	511
		SBL4-300X250G	N.A.	250	120	55	670	400	500	110	300	250	710	600	110	23	14	25	6	511
		SBL4-300X250P	N.A.	240	160	70	875	425	545	140	300	240	720	600	140	27	19	30	8	634
350	300	SBL4-350X300J	N.A.	260	140	70	875	400	560	140	300	200	750	600	140	27	19	40	10	625
		SBL4-350X300G	N.A.	280	150	70	875	500	600	140	300	200	800	600	140	27	19	40	8	625

Dimensions

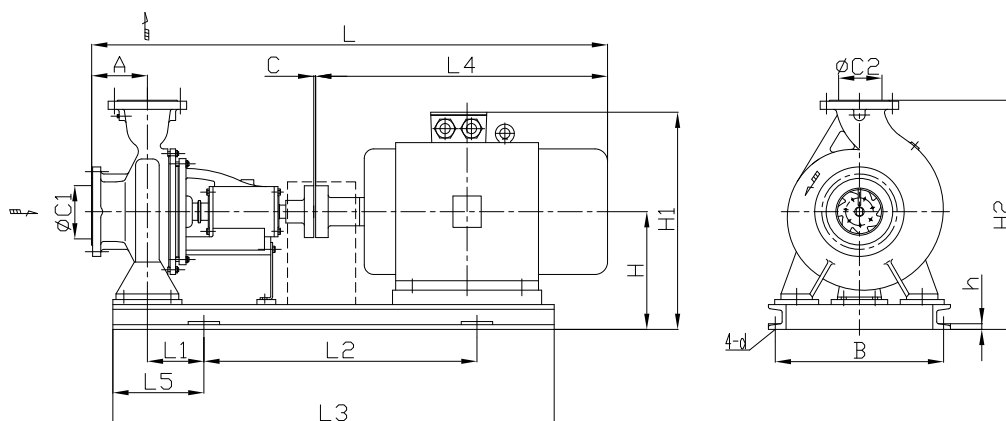


SBL4 Dimension Table

Size		Pump Model	Output (kW)	Dimensions													
øC1	øC2			A	B	L	L1	L2	L3	L4	L5	H	H1	H2	c	h	d
40	25	SBL4-40X25M	0.55/0.75	80	230	707	85	350	617	295	145	222	362	362	2	16	φ19
		SBL4-40X25H	0.55/0.75	80	255	722	75	350	642	295	145	242	382	422	2	16	φ19
50	52	SBL4-50X32L	0.55/1.1	80	235	737	57	400	658	295	127	187	327	327	2	16	φ19
		SBL4-50X32M	0.55	80	225	737	50	450	657	295	120	207	347	367	2	16	φ19
			1.1	80	250	762	57	450	674	320	127	224	394	384	2	16	φ19
		SBL4-50X32H	1.1	80	280	762	51	450	675	320	121	235	405	415	2	16	φ19
			1.5	80	278	787	51	450	710	345	121	235	405	415	2	16	φ19
		SBL4-50X32K	1.5	100	315	807	87.5	350	710	345	170	272	442	497	2	16	φ19
			2.2/3	100	315	852	67.5	450	745	390	150	272	442	497	2	16	φ19
			4	100	315	882	72.5	450	755	420	155	272	460	497	2	16	φ19
			5.5	100	315	927	77	500	804.5	465	159.5	255	468	480	2	16	φ19
		7.5	100	315	967	77	500	845	505	159.5	255	468	480	2	16	φ19	
65	40	SBL4-65X40L	0.55	80	225	737	67	400	660	295	137	187	327	327	2	16	φ19
		SBL4-65X40M	1.1	80	250	762	57	450	674	320	127	224	394	384	2	16	φ19
		SBL4-65X40H	1.5	100	278	807	51	450	700	345	121	235	405	415	2	16	φ19
			2.2/3	100	285	852	69	450	736	390	139	235	405	415	2	16	φ19
		SBL4-65X40K	1.5	100	315	807	87.5	350	710	345	170	272	442	497	2	16	φ19
			2.2/3	100	315	852	67.5	450	745	390	150	272	442	497	2	16	φ19
			4	100	315	882	72.5	450	755	420	155	272	460	497	2	16	φ19
			5.5	100	315	927	77	500	804.5	465	159.5	255	468	480	2	16	φ19
		7.5	100	315	967	77	500	845	505	159.5	255	468	480	2	16	φ19	
		SBL4-65X40J	4	125	350	1017	105	580	865.5	420	187.5	292	480	542	2	16	φ19
5.5	125		350	1062	105	580	914.5	465	187.5	292	505	542	2	16	φ19		
7.5	125	350	1102	105.5	580	952.5	505	188	292	505	542	2	16	φ19			
65	50	SBL4-65X50L	0.75	100	225	757	50	450	657	295	120	207	360	367	2	16	φ19
			1.1	100	250	782	57	450	674	320	127	224	394	384	2	16	φ19
		SBL4-65X50M	1.5	100	278	807	51	450	700	345	121	235	405	415	2	16	φ19
			2.2/3	100	285	852	69	450	736	390	139	235	405	415	2	16	φ19
		SBL4-65X50H	1.5	100	278	807	51	450	700	345	121	235	405	435	2	16	φ19
			2.2/3	100	285	852	69	450	736	390	139	235	405	435	2	16	φ19
		SBL4-65X50K	2.2/3	100	315	852	67.5	450	745	390	150	272	442	497	2	16	φ19
			4	100	315	882	72.5	450	755	420	155	272	460	497	2	16	φ19
			5.5	100	315	927	77	500	805	465	159.5	255	468	480	2	16	φ19
			7.5	100	315	967	77	500	845	505	159.5	255	468	480	2	16	φ19
SBL4-65X50J	5.5	125	395	1063	127.5	550	915	465	210	337	550	617	3	16	φ24		
	7.5	125	395	1103	127.5	630	955	505	210	343	556	623	3	16	φ24		
11	125	395	1248	92.5	680	1065	650	175	317	577	597	3	16	φ24			
80	65	SBL4-80X65L	1.5	100	285	807	67.5	440	732	345	150	252	422	432	2	16	φ19
			2.2	100	285	852	67.5	450	745	390	150	252	422	432	2	16	φ19
			4	100	285	882	67.5	450	756	420	150	252	440	432	2	16	φ19
		SBL4-80X65M	1.5	100	285	807	67.5	440	710	345	150	252	422	452	2	16	φ19
			2.2	100	285	852	67.5	450	745	390	150	252	422	452	2	16	φ19
			4	100	285	882	67.5	450	756	420	150	252	440	452	2	16	φ19
		SBL4-80X65H	2.2/3	100	315	852	67.5	450	745	390	150	272	442	497	2	16	φ19
			4	100	315	882	72.5	450	755	420	155	272	460	497	2	16	φ19
			5.5	100	315	927	77	500	804.5	465	159.5	255	468	480	2	16	φ19
7.5	100	315	967	77	500	845	505	159.5	255	468	480	2	16	φ19			

SBL4 / SBL End-Suction Centrifugal Pump (Back-pull-out Type)

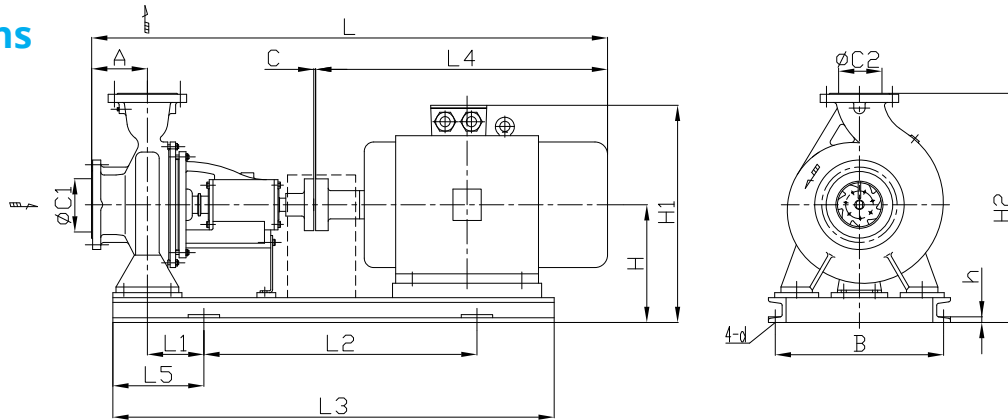
Dimensions



SBL4 Dimension Table

Size		Pump Model	Output (kW)	Dimensions													
ØC1	ØC2			A	B	L	L1	L2	L3	L4	L5	H	H1	H2	c	h	d
80	65	SBL4-80X65K	5.5	100	355	1038	105	580	930	465	205	292	505	542	3	16	φ19
			7.5	100	355	1078	105	580	970	505	205	292	505	542	3	16	φ19
			11	100	395	1223	120	630	1083	650	220	316	576	566	3	16	φ24
		SBL4-80X65J	11	125	395	1248	95	680	1080	650	195	340	600	620	3	16	φ24
			15	125	395	1278	95	680	1126	680	195	317	577	597	3	16	φ24
			18.5	125	395	1283	95	680	1100	685	195	337	612	617	3	16	φ24
100	80	SBL4-100X80M	22	125	395	1323	110	700	1140	725	210	337	612	617	3	16	φ24
			1.5	125	315	832	87.5	350	710	345	170	272	442	497	2	16	φ19
			2.2/3	125	315	877	67.5	450	745	390	150	272	442	497	2	16	φ19
			4	125	315	907	72.5	450	755	420	155	272	460	497	2	16	φ19
			5.5	125	315	952	77	500	805	465	159.5	255	468	480	2	16	φ19
			7.5	125	315	992	77	500	845	505	159.5	255	468	480	2	16	φ19
		SBL4-100X80H	5.5	125	350	1063	112.5	500	915	465	195	275	488	525	3	16	φ24
			7.5	125	350	1103	112.5	550	955	505	195	275	488	525	3	16	φ24
			11	125	350	1248	112.5	600	1070	650	195	275	535	525	3	16	φ24
		SBL4-100X80K	7.5	125	395	1103	120	580	970	505	220	292	505	572	3	16	φ19
			11	125	395	1248	120	630	1083	650	220	316	576	596	3	16	φ24
			15	125	395	1278	120	630	1127	680	220	316	576	596	3	16	φ24
		SBL4-100X80J	11	125	395	1248	105	750	1085	650	205	342	602	657	3	16	φ24
			15	125	395	1278	105	750	1130	680	205	366	626	681	3	16	φ24
			18.5	125	395	1283	105	750	1100	685	205	366	641	681	3	16	φ24
		SBL4-100X80G	22	125	395	1323	105	750	1140	725	205	362	637	677	3	16	φ24
			22	125	415	1373	130	750	1190	725	230	424	699	779	3	16	φ24
			30	125	420	1428	140	780	1230	780	240	422	727	777	3	16	φ24
			37	125	420	1463	140	780	1260	815	240	422	757	777	3	16	φ24
125	100	SBL4-125X100H	5.5	125	355	1063	105	580	930	465	205	292	505	572	3	16	φ19
			7.5	125	355	1103	105	580	970	505	205	292	505	572	3	16	φ19
			11	125	395	1248	120	630	1083	650	220	316	576	596	3	16	φ24
		SBL4-125X100K	75	140	550	1579	172	880	1374	965	272	440	840	720	4	16	φ28
			90	140	550	1629	180	880	1435	1015	280	436	836	716	4	16	φ28
			110	140	620	1794	190	870	1474	1180	290	480	1010	760	4	16	φ28
			132	140	620	1824	190	870	1524	1210	290	480	1010	760	4	16	φ28
			11	140	395	1263	95	680	1080	650	195	340	600	620	3	16	φ24
			15	140	395	1293	95	680	1126	680	195	317	577	597	3	16	φ24
			18.5	140	395	1298	95	680	1100	685	195	337	612	617	3	16	φ24
			22	140	395	1338	110	700	1140	725	210	337	612	617	3	16	φ24
		SBL4-125X100J	11	140	395	1263	105	750	1085	650	205	342	602	657	3	16	φ24
			15	140	400	1293	105	720	1125	680	205	366	626	681	3	16	φ24
			18.5	140	395	1298	105	750	1100	685	205	366	641	681	3	16	φ24
			22	140	395	1338	105	750	1140	725	205	362	637	677	3	16	φ24
		SBL4-125X100G	30	140	385	1393	104	760	1180	780	204	362	667	677	3	16	φ24
			22	140	500	1398	120	750	1220	725	240	422	697	777	3	16	φ28
			30	140	490	1453	110	800	1260	780	230	422	727	777	3	16	φ24
			37	140	540	1488	140	820	1290	815	260	445	780	800	3	16	φ28
			45	140	540	1513	136.5	820	1320	840	260	442	777	797	3	16	φ28

Dimensions

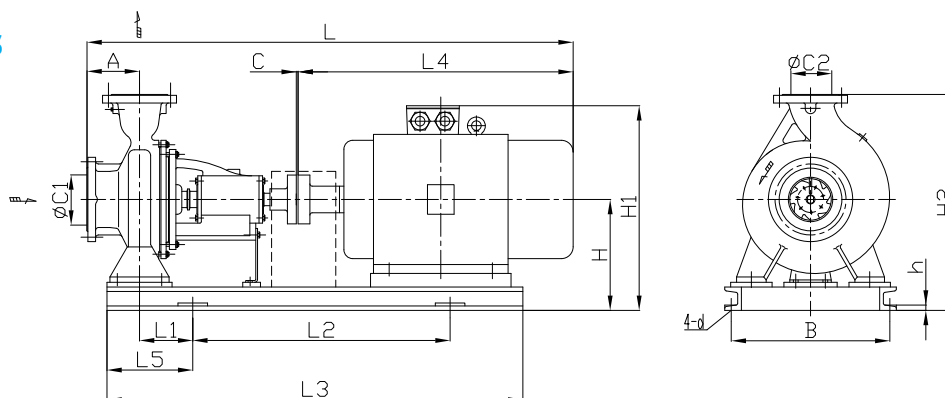


SBL4 Dimension Table

Size		Pump Model	Output (kW)	Dimensions													
øC1	øC2			A	B	L	L1	L2	L3	L4	L5	H	H1	H2	c	h	d
150	125	SBL4-150X125H	11	140	395	1263	105	750	1085	650	205	342	602	657	3	16	φ24
			15	140	400	1293	105	720	1125	680	205	366	626	681	3	16	φ24
			18.5	140	395	1298	105	750	1100	685	205	366	641	681	3	16	φ24
			22	140	395	1338	105	750	1140	725	205	362	637	677	3	16	φ24
			30	140	385	1393	104	760	1180	780	204	362	667	677	3	16	φ24
		SBL4-150X125K	11	140	395	1263	105	750	1085	650	205	342	602	697	3	16	φ24
			15	140	400	1293	105	720	1125	680	205	366	626	721	3	16	φ24
			18.5	140	395	1298	105	750	1100	685	205	366	641	721	3	16	φ24
			22	140	395	1338	105	750	1140	725	205	362	637	717	3	16	φ24
			30	140	385	1393	104	760	1180	780	204	362	667	717	3	16	φ24
		SBL4-150X125J	18.5	140	495	1358	110	780	1185	685	230	423	698	778	3	16	φ24
			22	140	495	1398	110	780	1220	725	230	423	698	778	3	16	φ24
			30	140	490	1448	110	800	1260	775	230	422	727	777	3	16	φ24
			37	140	540	1488	140	820	1290	815	260	445	780	800	3	16	φ28
			45	140	540	1513	136.5	820	1320	840	260	442	777	797	3	16	φ28
		SBL4-150X125G	37	140	490	1488	150	800	1290	815	270	471	806	871	3	16	φ28
			45	140	490	1513	150	800	1315	840	270	471	806	871	3	16	φ28
			55	140	490	1593	150	870	1385	920	270	471	847	871	3	16	φ28
			75	140	550	1638	190	910	1451	965	310	475	875	875	3	16	φ28
		SBL4-150X125P	55	180	550	1774	220	840	1525	920	340	535	911	1035	4	16	φ28
			75	180	620	1819	220	870	1597	965	340	535	935	1035	4	16	φ28
			90	180	615.5	1869	190	1083	1665	1015	320	535	935	1035	4	16	φ28
			110	180	625	2069	160	1150	1724	1215	280	555	1085	1055	4	16	φ28
		200	150	SBL4-200X150H	132	180	625	2094	220	1000	1760	1240	340	560	1090	1060	4
15	160				550	1338	115	700	1170	680	235	396	656	796	3	16	φ24
18.5	160				550	1343	115	780	1145	685	235	395	670	795	3	16	φ24
22	160				550	1383	115	780	1184	725	235	395	670	795	3	16	φ24
SBL4-200X150K	18.5			160	440	1378	80	750	1180	685	200	392	667	747	3	16	φ24
	22			160	440	1418	119	750	1223	725	239	396	671	751	3	16	φ24
	30			160	440	1473	120	800	1258	780	240	392	697	747	3	16	φ24
	37			160	440	1508	120	800	1290	815	240	396	731	751	3	16	φ24
	45			160	540	1533	150	850	1340	840	270	406	731	761	3	16	φ28
SBL4-200X150J	30			160	550	1473	110	800	1275	780	230	396	701	796	3	16	φ24
	37			160	540	1508	130	820	1290	815	250	436	771	836	3	18	φ28
	45			160	540	1523	140	820	1315	840	260	442	777	842	3	18	φ28
	55			160	540	1613	150	870	1385	920	270	436	812	836	3	16	φ28
SBL4-200X150G	37			160	550	1509	110	800	1290	815	230	475	810	925	4	16	φ28
	45			160	550	1534	110	850	1315	840	230	475	810	925	4	16	φ28
	55			160	550	1614	110	910	1385	920	230	475	851	925	4	16	φ28
	75			160	550	1659	190	910	1454	965	310	475	875	925	4	16	φ28
	90			160	550	1709	190	910	1510	1015	310	475	875	925	4	16	φ28
SBL4-200X150P	55			180	550	1774	220	840	1525	920	340	535	911	1035	4	16	φ28
	75			180	620	1819	220	870	1627	965	340	535	935	1035	4	16	φ28
	90			180	615.5	1869	190	1083	1665	1015	320	535	935	1035	4	16	φ28
	110			180	625	2064	160	1150	1724	1210	280	555	1085	1055	4	16	φ28
	132			180	625	2094	220	1000	1760	1240	340	560	1090	1060	4	16	φ28
160/200	180			625	2174	220	1100	1820	1320	340	560	1090	1060	4	16	φ28	

SBL4 / SBL End-Suction Centrifugal Pump (Back-pull-out Type)

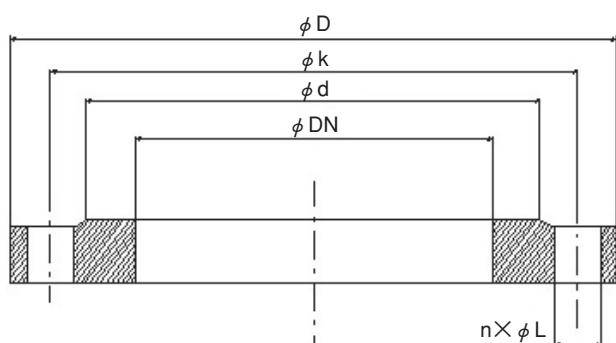
Dimensions



SBL4 Dimension Table

Size		Pump Model	Output (kW)	Dimensions														
øC1	øC2			A	B	L	L1	L2	L3	L4	L5	H	H1	H2	c	h	d	
250	200	SBL4-250X200K	22	180	550	1454	110	800	1238	725	230	396	671	796	3	16	φ24	
			30	180	550	1509	110	800	1275	780	230	396	701	796	3	16	φ24	
			37	180	540	1548	130	820	1290	815	250	436	771	836	3	16	φ28	
		SBL4-250X200J	37	200	540	1689	130	850	1430	815	250	540	875	990	4	16	φ24	
			45	200	540	1714	130	850	1455	840	250	540	875	990	4	16	φ24	
			55	200	540	1794	130	900	1525	920	250	540	916	990	4	16	φ24	
		SBL4-250X200G	75	200	540	1839	160	1000	1604	965	280	535	935	985	4	16	φ24	
			75	200	540	1839	160	1000	1604	965	280	535	935	1035	4	16	φ24	
			90	200	540	1889	160	1000	1655	1015	280	535	935	1035	4	16	φ28	
			110	200	625	2089	160	1100	1720	1215	280	535	1065	1035	4	16	φ28	
		SBL4-250X200P	132	200	625	2114	240	1100	1770	1240	360	540	1070	1040	4	16	φ28	
			132	210	710	2129	210	1100	1825	1240	380	585	1115	1085	4	16	φ28	
300	250	SBL4-300X250J	160/200	210	710	2204	210	1100	1850	1315	380	585	1115	1085	4	16	φ28	
			45	200	595	1714	155	850	1480	840	300	540	875	1065	4	16	φ28	
			55	200	615	1794	155	900	1550	920	300	540	916	1065	4	16	φ28	
			75	200	595	1839	190	900	1629	965	335	540	940	1065	4	16	φ28	
			90	200	595	1889	190	910	1680	1015	335	540	940	1065	4	16	φ28	
		SBL4-300X250G	110	200	625	2089	155	1000	1745	1215	300	540	1070	1065	4	16	φ28	
			75	250	705	1889	230	950	1645	965	400	585	985	1085	4	16	φ28	
			90	250	705	1939	230	950	1700	1015	400	585	985	1085	4	16	φ28	
			110	250	705	2139	230	950	1762	1215	400	585	1115	1085	4	16	φ28	
			132	250	705	2164	230	1000	1817.5	1240	400	585	1115	1085	4	16	φ28	
		SBL4-300X250P	160/200	250	705	2244	225	1000	1860	1320	400	580	1110	1080	4	16	φ28	
			160/200	240	720	2440	230	1250	2075	1320	400	610	1150	1155	4	20	φ28	
			250	240	760	2540	230	1300	2155	1420	400	630	1275	1175	4	20	φ28	
		SBL4-300X250P	315	240	760	2650	230	1370	2225	1530	400	630	1275	1175	4	20	φ28	
			SBL4-350X300J	110	260	720	2354	210	1100	1969	1215	380	605	1135	1165	4	16	φ28
				132	260	720	2379	210	1100	2020	1240	380	605	1135	1165	4	16	φ28
160	260	720		2454	210	1200	2055	1315	380	605	1135	1165	4	16	φ28			
SBL4-350X300G	160/200	280	785	2474	257.5	1250	2055	1315	427.5	705	1235	1305	4	20	φ28			
	250	280	785	2579	260	1300	2168	1420	430	705	1360	1305	4	16	φ28			

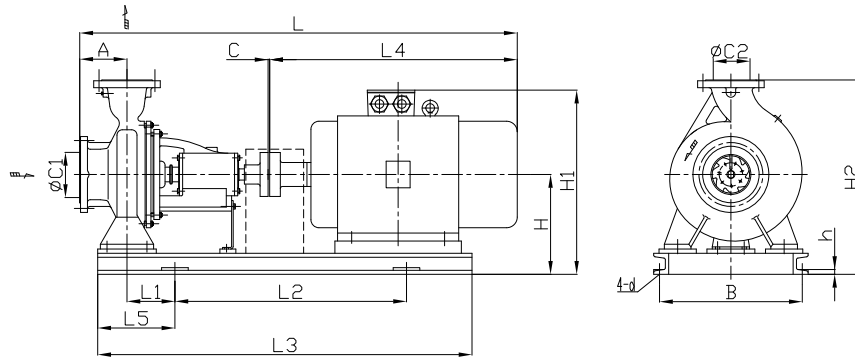
Flange Dimension



No.	DN	d	k	D	n × φL
1	25	65	85	115	4 × Ø14
2	32	76	100	140	4 × Ø18
3	40	84	110	150	4 × Ø18
4	50	99	125	165	4 × Ø18
5	65	118	145	185	4 × Ø18
6	80	132	160	200	8 × Ø18
7	100	156	180	220	8 × Ø18
8	125	184	210	250	8 × Ø18
9	150	211	240	285	8 × Ø22
10	200	266	295	340	12 × Ø22
11	250	319	355	405	12 × Ø26
12	300	370	410	460	12 × Ø26
13	350	420	470	520	16 × Ø26

Flange Rating: ISO 2084 PN16

Dimensions

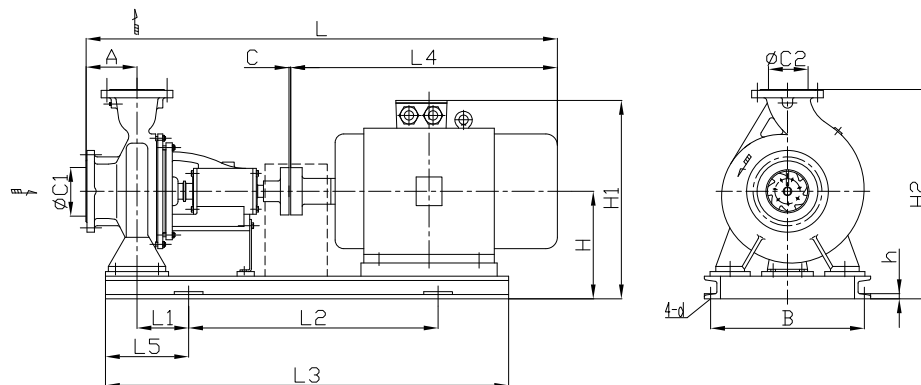


SBL Dimension Table

Size		Pump Model	Output (kW)	Dimensions													
øC1	øC2			A	B	L	L1	L2	L3	L4	L5	H	H1	H2	c	h	d
40	25	SBL-40X25M	2.2	80	230	757	65	420	685	345	125	224	394	364	2	16	φ19
			3	80	230	802	65	415	705	390	125	224	394	364	2	16	φ19
			4	80	255	832	65	410	715	420	125	224	412	364	2	16	φ19
		SBL-40X25H	3	80	255	817	70	420	720	390	140	242	412	422	2	16	φ19
			4	80	255	847	87	410	728	420	157	242	430	422	2	16	φ19
			5.5/7.5	80	255	892	87	450	775	465	157	262	475	442	2	16	φ19
50	32	SBL-50X32L	0.55/1.1	80	235	737	57	400	658	295	127	187	327	327	2	16	φ19
			1.5	80	225	762	57	450	675	320	127	187	357	327	2	16	φ19
			2.2	80	225	787	57	450	700	345	127	202	372	342	2	16	φ19
			3	80	215	832	55	450	734	390	125	187	357	327	2	16	φ19
			4	80	255	862	56	450	745	420	127	204	392	344	2	16	φ19
		SBL-50X32M	2.2	80	250	787	57	450	705	345	127	224	394	384	2	12	φ19
			3	80	255	832	67	450	741	390	137	224	394	384	2	16	φ19
			4	80	255	862	67	450	745	420	137	224	412	384	2	16	φ19
			5.5/7.5	80	285	907	77	500	794	465	147	224	437	384	2	16	φ19
		SBL-50X32H	5.5/7.5	80	285	907	61	500	794	465	131	235	448	415	2	16	φ19
			11	80	325	1092	90	580	945	650	160	252	512	432	2	16	φ19
		SBL-50X32K	11/15	100	325	1112	87.5	580	955	650	170	272	532	497	2	16	φ19
			18.5	100	325	1142	87.5	580	1000	680	170	272	532	497	2	16	φ19
			22	100	350	1147	117.5	580	975	685	200	272	547	497	2	16	φ19
		SBL-50X32KB	22	100	350	1147	117.5	580	975	685	200	272	547	497	2	16	φ19
		65	40	SBL-65X40L	2.2	80	225	787	65	430	700	345	135	204	374	344	2
3	80				225	832	67	450	736	390	137	204	374	344	2	16	φ19
4	80				255	862	83	450	750	420	153	190	378	330	2	16	φ19
SBL-65X40M	2.2			80	250	787	57	450	705	345	127	224	394	384	2	16	φ19
	3			80	255	832	67	450	741	390	137	224	394	384	2	16	φ19
	4			80	255	862	67	450	745	420	137	224	412	384	2	16	φ19
	5.5/7.5			80	285	907	77	500	794	465	147	224	437	384	2	16	φ19
SBL-65X40H	5.5/7.5			100	285	927	77.5	500	794	465	147.5	252	465	432	2	16	φ19
	11/15			100	325	1112	90	580	945	650	160	252	512	432	2	16	φ19
SBL-65X40K	11/15			100	325	1112	87.5	580	955	650	170	272	532	497	2	16	φ19
	18.5			100	325	1142	87.5	580	1000	680	170	272	532	497	2	16	φ19
	22			100	350	1147	117.5	580	975	685	200	272	547	497	2	16	φ19
SBL-65X40KA	22			100	350	1256	147.5	650	1069	685	230	272	547	497	2	16	φ19
	30/37			100	395	1350	129.5	700	1160	780	212	312	617	537	2	16	φ24
SBL-65X40JB	30/37			125	395	1377	120.5	750	1160	780	203	342	647	592	2	16	φ24
65	50	SBL-65X50L	2.2	100	250	807	57	450	705	345	127	224	394	384	2	16	φ19
			3	100	255	852	67	450	741	390	137	224	394	384	2	16	φ19
			4	100	255	882	67	450	745	420	137	224	412	384	2	16	φ19
			5.5/7.5	100	285	927	77	500	794	465	147	224	437	384	2	16	φ19
		SBL-65X50M	5.5/7.5	100	285	927	77.5	500	794	465	147.5	252	465	432	2	16	φ19
			11/15	100	325	1072	90	580	945	610	160	252	512	432	2	16	φ19
		SBL-65X50H	5.5/7.5	100	285	927	77.5	500	794	465	147.5	252	465	452	2	16	φ19
			11/15	100	325	1072	90	580	945	610	160	252	512	452	2	16	φ19
			18.5	100	325	1112	90	580	990	650	160	252	512	452	2	16	φ19
			22	100	350	1147	90	580	962	685	160	272	547	472	2	16	φ19
			30	100	395	1242	130	600	1040	780	200	315	620	515	2	16	φ24
		SBL-65X50HB	22	100	350	1147	90	580	962	685	160	272	547	472	2	16	φ19
			30	100	395	1242	130	600	1040	780	200	315	620	515	2	16	φ24
		SBL-65X50KA	30/37	100	395	1350	129.5	700	1160	780	212	312	617	537	2	16	φ24
		SBL-65X50JB	45	125	440	1409	94	800	1188.5	810	176.5	341	676	621	4	16	φ24
			55	125	490	1519	117.5	820	1288	920	200	370	746	650	4	16	φ24
			75	125	540	1564	92.5	900	1355	965	175	396	796	676	4	16	φ24

SBL4 / SBL End-Suction Centrifugal Pump (Back-pull-out Type)

Dimensions



SBL Dimension Table

Size		Pump Model	Output (kW)	Dimensions													
ØC1	ØC2			A	B	L	L1	L2	L3	L4	L5	H	H1	H2	c	h	d
80	65	SBL-80X65L	5.5/7.5	100	285	927	87.5	500	805	465	170	252	465	432	2	16	φ19
			11/15	100	325	1112	87.5	580	955	650	170	252	512	432	2	16	φ19
		SBL-80X65M	5.5/7.5	100	285	927	87.5	500	805	465	170	252	465	452	2	16	φ19
			11/15	100	325	1072	87.5	580	955	610	170	252	512	452	2	16	φ19
		SBL-80X65HA	18.5	100	325	1112	87.5	580	1000	650	170	252	512	452	2	16	φ19
			15	100	325	1221	132.5	600	1050	650	215	292	552	517	3	16	φ19
			18.5	100	350	1251	127.5	650	1090	680	210	294	554	519	3	16	φ19
			22	100	350	1256	147.5	650	1069	685	230	296	571	521	3	16	φ19
			30/37	100	395	1346	127.5	700	1145	775	210	320	625	545	3	16	φ24
			45	100	435	1381	132.5	750	1175	810	215	343	678	568	3	16	φ24
		SBL-80X65K	30/37	100	395	1353	140	750	1180	780	240	316	621	566	3	16	φ24
			45	100	430	1383	140	750	1205	810	240	341	676	591	3	16	φ24
		SBL-80X65JB	55	100	495	1493	162	800	1304	920	262	401	777	651	3	16	φ24
			75	125	550	1564	172	880	1374	965	272	440	840	720	4	16	φ28
			90	125	550	1614	180	880	1435	1015	280	436	836	716	4	16	φ28
			110	125	620	1774	190	870	1474	1175	290	480	1010	760	4	16	φ28
			11/15	125	325	1137	87.5	580	955	650	170	272	532	497	2	16	φ19
100	80	SBL-100X80MB	18.5	125	325	1167	87.5	580	1000	680	170	272	532	497	2	16	φ19
			22	125	350	1172	117.5	580	975	685	200	272	547	497	2	16	φ19
			30/37	125	395	1378	147.5	700	1165	780	230	316	621	566	3	16	φ24
		SBL-100X80H	45	125	430	1408	152.5	750	1188	810	235	343	678	593	3	16	φ24
			55	125	490	1518	158	750	1290.5	920	240.5	406	782	656	3	16	φ24
			75	125	555	1563	160	850	1373	965	260	440	840	720	3	16	φ28
		SBL-100X80K	45	125	425	1408	160	720	1205	810	260	371	706	651	3	16	φ24
			55	125	475	1518	160	780	1304	920	260	410	786	690	3	16	φ28
			75	125	555	1613	160	850	1430	1015	260	440	840	720	3	16	φ28
		SBL-100X80JB	90	125	555	1613	160	850	1430	1015	260	440	840	720	3	16	φ28
			75	125	550	1564	184	880	1377	965	284	440	840	755	4	16	φ28
			90	125	550	1614	184	880	1428	1015	284	440	840	755	4	16	φ28
			110	125	625	1774	150	1000	1474	1175	250	502	1032	817	4	20	φ28
			132	125	625	1809	150	1000	1515	1210	250	490	1021	805	4	20	φ28
125	100	SBL-125X100H	30/37	125	395	1378	140	750	1180	780	240	316	621	596	3	16	φ24
			45	125	430	1408	140	750	1205	810	240	341	676	621	3	16	φ24
			55	125	495	1518	162	800	1304	920	262	401	777	681	3	16	φ24
			75	125	555	1563	160	850	1373	965	260	440	840	720	3	16	φ28
		SBL-125X100KA	75	140	550	1629	222	930	1424	965	322	440	840	720	4	16	φ28
			90	140	550	1679	230	930	1485	1015	330	436	836	716	4	16	φ28
			110	140	620	1844	240	920	1524	1175	340	480	1010	760	4	16	φ28
			132	140	620	1874	240	920	1574	1210	340	480	1010	760	4	16	φ28
150	125	SBL-150X125H	45	140	440	1423	140	760	1206	810	204	362	697	677	3	16	φ24
			75	140	550	1578	184	880	1377	965	284	440	840	755	3	16	φ28
			90	140	550	1628	184	880	1428	1015	284	440	840	755	3	16	φ28

We reserve the right to change the specifications and dimensions for improvement without prior notice.

TERAL

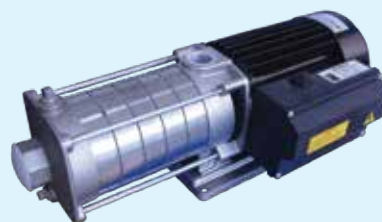
Pumps and Fans



End-suction Pumps



In-Line Pumps



Horizontal Multistage Pumps



Horizontal Split Case Pumps



Freshwater &
Sewage Submersible Pumps



Variable Speed Systems



Vertical Multistage
Pumps



Coolant Pumps



Ring Blowers



Centrifugal Fans

Teral Inc.

Head Office 230, Moriwake, Miyuki-cho, Fukuyama-city, Hiroshima, 720-0003, Japan
Tel: +81-84-955-1111 Fax: +81-84-955-5777

Tokyo Office TERAL Koraku Bldg., 2-3-27, Koraku, Bunkyo-ku, Tokyo, 112-0004, Japan
Tel: +81-3-3818-6890 Fax: +81-3-3818-6790

Teral Asia Limited

Room 1001, 10/F., Olympia Plaza, 255 King's Road, North Point, Hong Kong
Tel: +852-2571-0282 Fax: +852 2571-0619 E-mail: sales@teraliasia.com

Teral General Machine (Shanghai) Co., Ltd.

No. 285, Yuan Qu Road (N), Bei Qiao, Min Hang District, Shanghai 201109, China
Tel: +86-21-6490-9128 Fax: +86-21-6490-9126

Teral Thai Co., Ltd. / Teral Trading & Service Co., Ltd.

150 Moo 16 Udomsorayuth Rd., T.Bangkrasan, A.Bangpa-In, Ayutthaya 13160 Thailand
Tel: +66-3522-0640-2, +66-3525-8543-4 Fax: +66-3522-0643

Teral Malaysia Sdn Bhd

10, Jalan SS13/6A, Subang Jaya Industrial Estate 47500,
Subang Jaya, Selangor D.E, Malaysia
Tel: +60-3-5611 5775 Fax: +60-3-5612 5775 E-mail: sales.my@teraliasia.com

Teral Vietnam Limited Liability Company

9th Floor, LADECO Building, No. 266 Doi Can Street, Lieu Giai Ward,
Ba Dinh District, Hanoi city, Vietnam
Tel: +84.43.935.2790 Fax: +84.43.935.2800 E-mail: sales.vn@teraliasia.com

PT. TeralIndonesia Pumps and Fans

KomplekPergudanganTaman Tekno., Blok G3 No. 08, J.L. BSD SektorXI,
SetuTangerang Selatan, Banten, Indonesia 15314
Tel: +62-21-29665778 Fax: +62-21-75673913 E-mail: sales1.id@teraliasia.com

Affiliated Sister Company:

Atai Fuji Motor Co., Ltd. (Ring Blowers & Coolant Pumps)

No. 32, Sec 2, Chang-Hsing Rd., Lu-Chu Hsiang, Taoyuan Hsien, Taiwan, R.O.C.
Tel: +886-3-321-3030 Fax: +886-3-321-7890

TeralMiddle East

1806-002, 18th floor, BB1, MazayaBusiness Avenue, JLT, Dubai, UAE. PO Box 414781
Tel: +971-(0)43699039 Email: sales.me@teraliasia.com

Teral Pumps & Fans North America Ltd.

Suite #197, 800-15355 24th Ave., Surrey, BC, CANADA V4A 2H9
Tel: +1-(604) 839-1008 E-mail: salesamerica@teraliasia.com

www.teral.net

(Edition Date: July 2019 by Teral Asia Limited)