

# TH SB BOOSTERS

TH SB Rev.05.03.2024



## General Information

It is high pressure, quiet running, compact and low power consumption. SB pumps are suitable for pumping non-abrasive, clean or slightly contaminated, low viscosity liquids without solid & fibrous particles. Vertical design saves space.

## Technical Data

Flow \_\_\_\_\_ up to 90 m<sup>3</sup>/h  
 Head \_\_\_\_\_ up to 160 m  
 Design Temperature \_\_\_\_\_ 0 °C to 50 °C  
 Casing Pressure \_\_\_\_\_ 10 - 16 bar

## Design Features

- TH SB booster is manufactured with horizontal or vertical pump.
- The boosters are produced as single, double and triple pumps as a standard according to the desired flow. Upon request, up to 6 pumps can be set.
- Single-pump boosters have a water level float (electric floater).
- Phase control system (PCS) is available in single pump, three-phase motorized boosters.
- Sequencing, phase control and liquid level control are standard features for multiple pumped booster pumps.
- Booster pumps can operate in two different modes; automatically and manually.
- Electrical materials used in the booster pump panels are selected from reliable and quality brands.
- The booster pumps can be manufactured as a variable-speed frequency control for convenience.

## Material Equivalentents

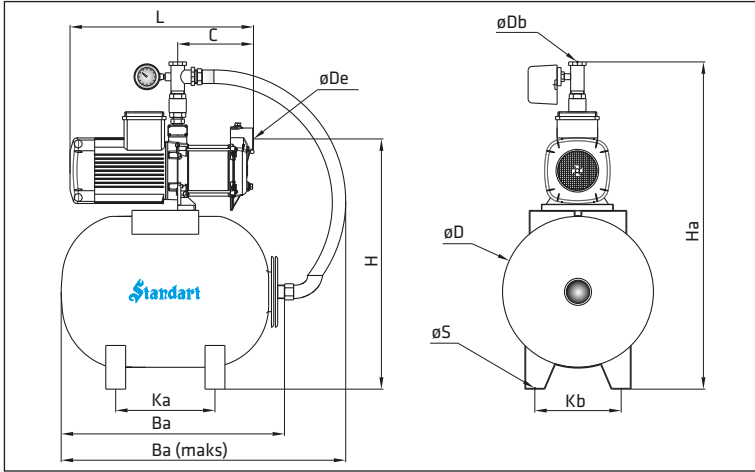
Part Name	Material	
	Standard	Optional
<b>Pump</b>		
Base Plate	GG 25	-
Stage Casing	NORYL	-
Intermediate Stage	NORYL	-
Impeller	NORYL	-
Shaft	AISI 420	-
Cover Plate	AISI 304	-
<b>Panel</b>	Pressure Switch Controlled	Frequency Controlled
<b>Collector</b>	Steel	AISI 304
<b>Frame</b>	Steel	-
<b>Accessories</b>		
Valve	Brass	-
Check Valve	Brass	-

## Booster Designation



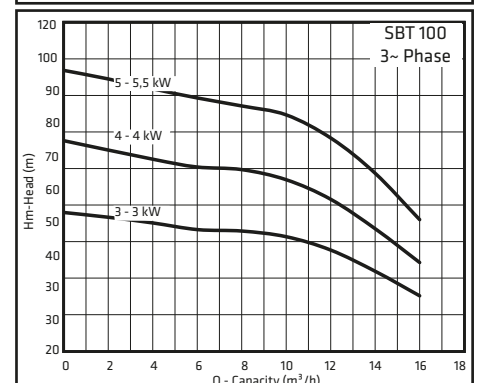
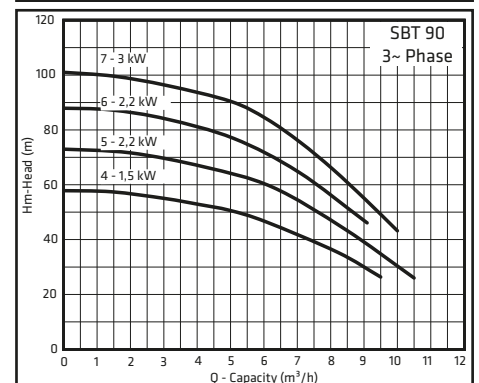
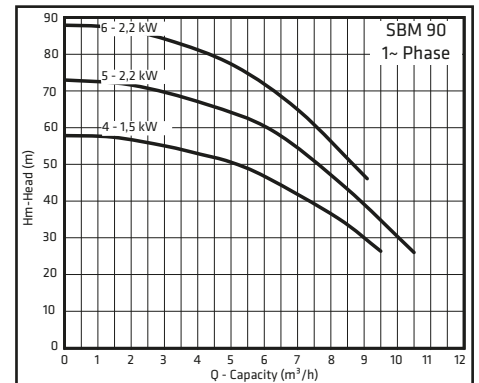
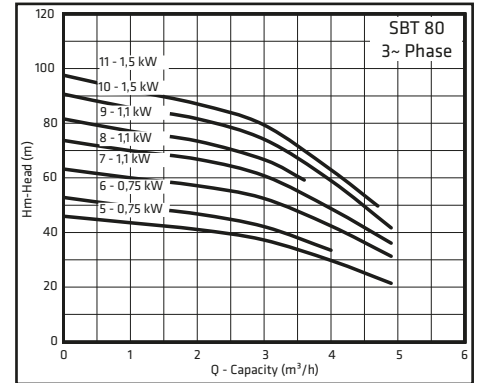
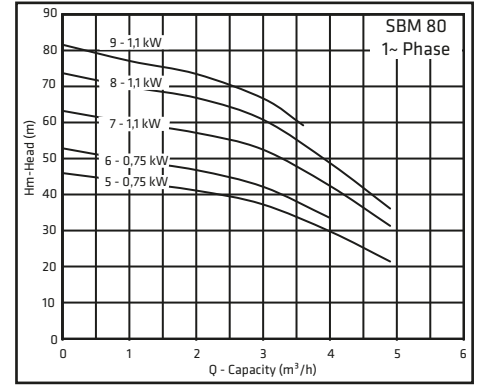
**TH 1x SB T-V 80 /10**

## Horizontal boosters with tanks

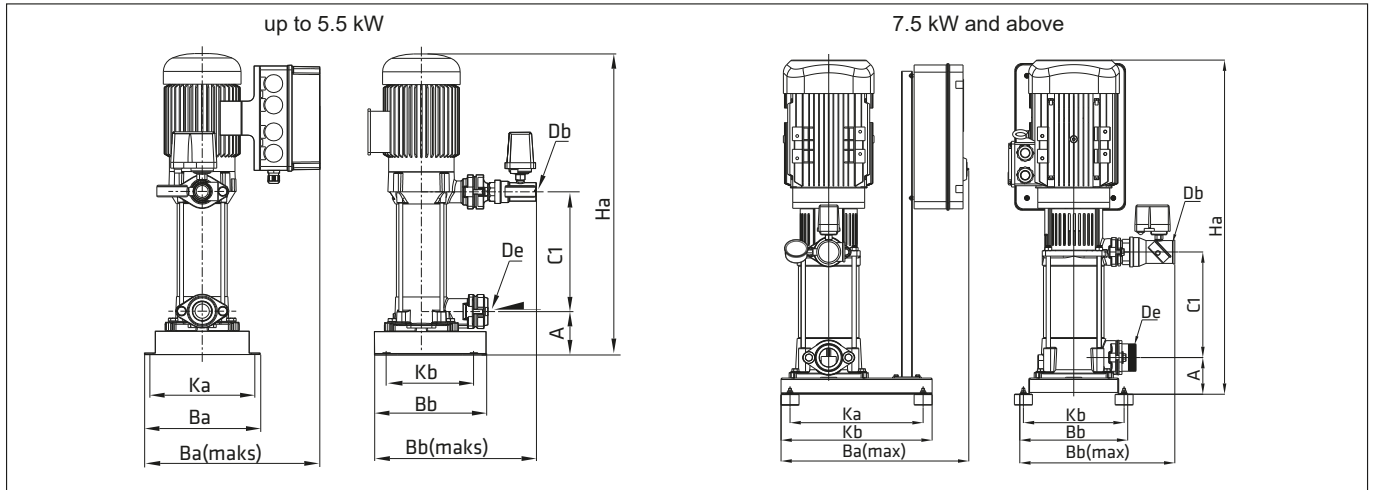


Tank Capacity	De	Db	Ba	Ba(mx)	H	Ha	Ka	Kb	L	c	øD	øS	KG
24 Liter Tank													
SBM 80/5-24									455	200			25.8
SBM 80/6-24									475	230			26.8
SBM 80/7-24	1 1/4"	1"	480	587	465	669	190	158	500	250	265	10	26.9
SBM 80/8-24									520	270			28.1
SBM 80/9-24									540	295			28.8
24 Liter Tank													
SBT 80/5-24									453	206			24.3
SBT 80/6-24									475	228			24.8
SBT 80/7-24									497	250			26.1
SBT 80/8-24	1 1/4"	1"	480	587	465	669	190	158	519	272	265	10	26.3
SBT 80/9-24									541	294			26.8
SBT 80/10-24									563	316			28.3
SBT 80/11-24									585	338			29
50 Liter Tank													
SBM 80/5-50									453	206			31.7
SBM 80/6-50									475	228			32.2
SBM 80/7-50	1 1/4"	1"	600	696	565	779	220	232	497	250	280	10	32.8
SBM 80/8-50									519	272			34
SBM 80/9-50									541	294			34.7
50 Liter Tank													
SBT 80/5-50									453	206			30.2
SBT 80/6-50									475	228			30.7
SBT 80/7-50									497	250			32
SBT 80/8-50	1 1/4"	1"	600	696	565	779	220	232	519	272	380	10	32.2
SBT 80/9-50									541	294			32.7
SBT 80/10-50									563	316			34.7
SBT 80/11-50									585	338			35
50 Liter Tank													
SBM 90/4-50									489	218			39.3
SBM 90/5-50	1 1/4"	1"	600	696	603	796	220	232	517	246	380	10	41.3
SBM 90/6-50									545	274			41.8
50 Liter Tank													
SBT 90/4-50									489	218			37.3
SBT 90/5-50	1 1/4"	1 1/4"	600	696	603	796	220	232	517	246	380	10	39.3
SBT 90/6-50									545	274			40.3
SBT 90/7-50									573	302			42.3
80 Liter Tank													
SBM 90/4-80									489	218			44.1
SBM 90/5-80	1 1/4"	1 1/4"	635	828	708	901	330	276	517	246	460	10	46.1
SBM 90/6-80									545	274			46.6
80 Liter Tank													
SBT 90/4-80									489	218			42.1
SBT 90/5-80	1 1/4"	1 1/4"	635	828	708	901	330	276	517	246	460	10	44.1
SBT 90/6-80									545	274			45.1
SBT 90/7-80									573	302			47.1
80 Liter Tank													
SBT 100/3-80									530	219			51.3
SBT 100/4-80	1 1/2"	1 1/2"	635	880	746	1007	330	276	563	252	460	10	52.8
SBT 100/5-80									596	285			58
100 Liter Tank													
SBT 100/3-100									530	219			52.6
SBT 100/4-100	1 1/2"	1 1/2"	820	940	746	1007	330	276	563	252	460	10	54.1
SBT 100/5-100									596	285			59.3

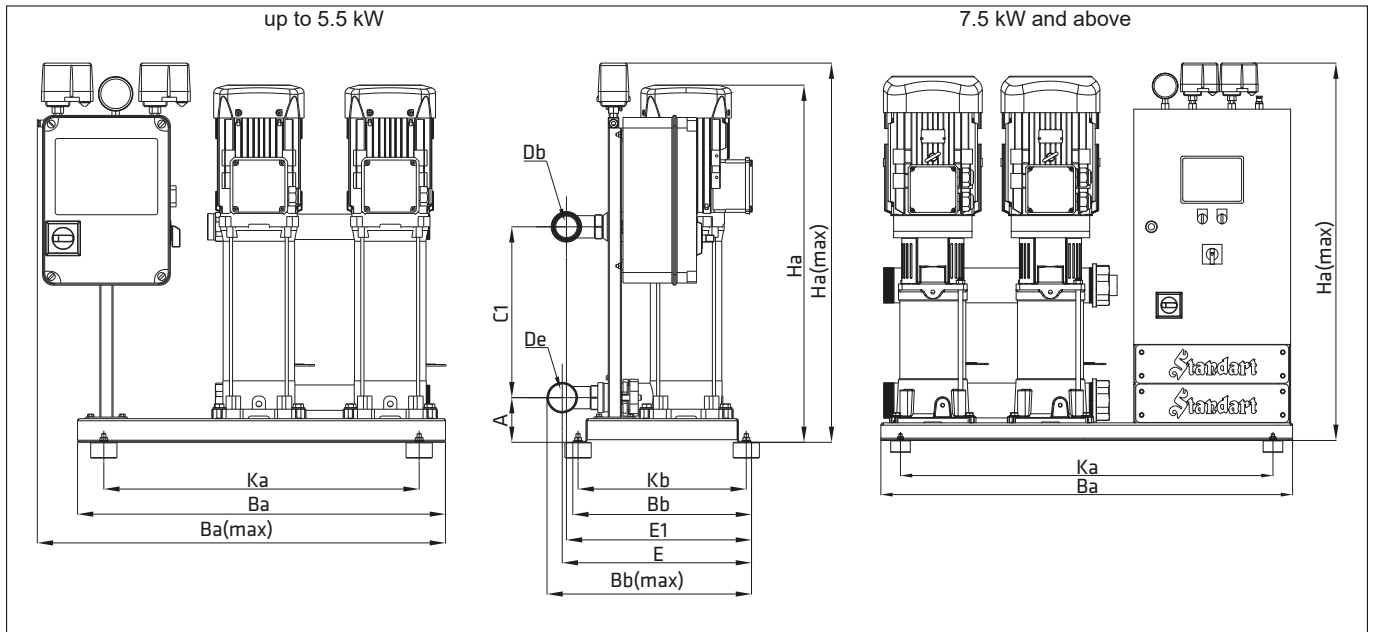
The specified dimensions and weights are approximate. Dimensions might be changed.



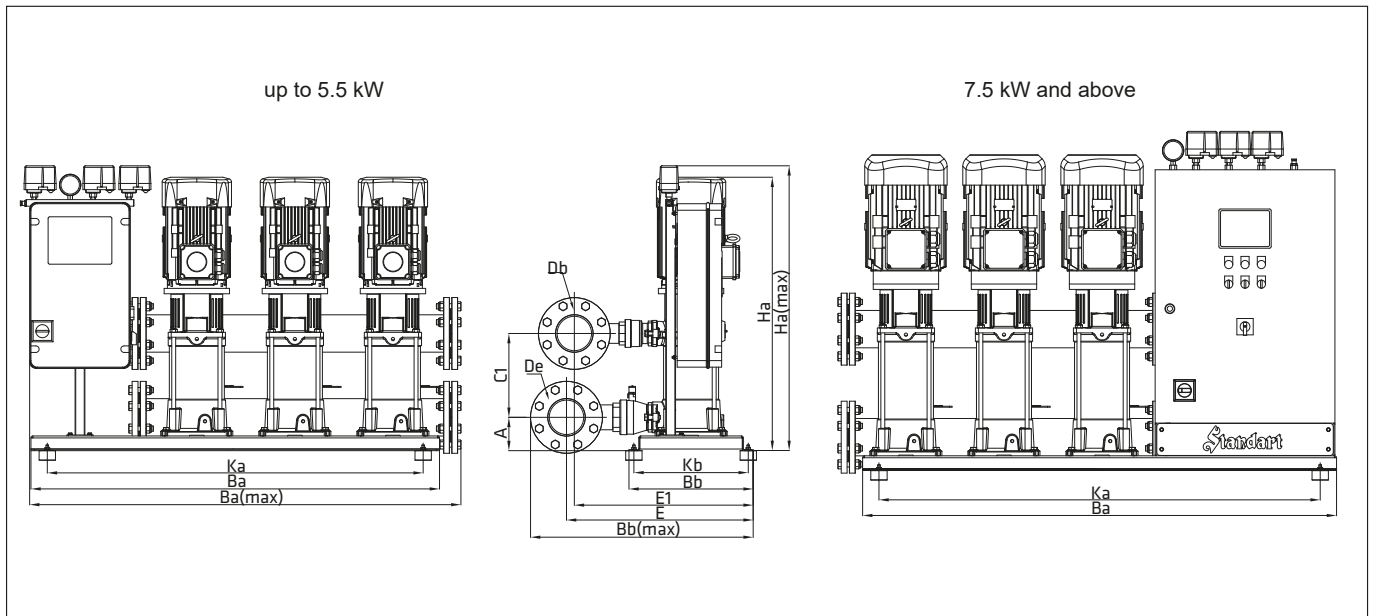
Booster set with one pump



Booster set with two pumps



Booster set with three pumps



# Performance Curves and Dimensions

# TH SB

	De	Db	Ba	Bb	Ba (mx)	Bb (mx)	Ha	Ka	Kb	E	E1	A	C1	KG
1xSBM-V 80/5							517						184	26.5
1xSBM-V 80/6							539						206	27
1xSBM-V 80/7	1 1/4"	1 1/4"	240	230	360	335	561	220	180	-	-	85	228	27.6
1xSBM-V 80/8							583						250	28.8
1xSBM-V 80/9							605						272	29.5

	De	Db	Ba	Bb	Ba (mx)	Bb (mx)	Ha	Ka	Kb	E	E1	A	C1	KG
1xSBT-V 80/5							560						185	25
1xSBT-V 80/6							580						205	25.5
1xSBT-V 80/7							600						225	26.8
1xSBT-V 80/8							620						245	27
1xSBT-V 80/9	1 1/4"	1"	230	210	335	315	670	210	160	-	-	85	275	27.5
1xSBT-V 80/10							690						295	29
1xSBT-V 80/11							730						315	30
1xSBT-V 80/12							770						335	30.5

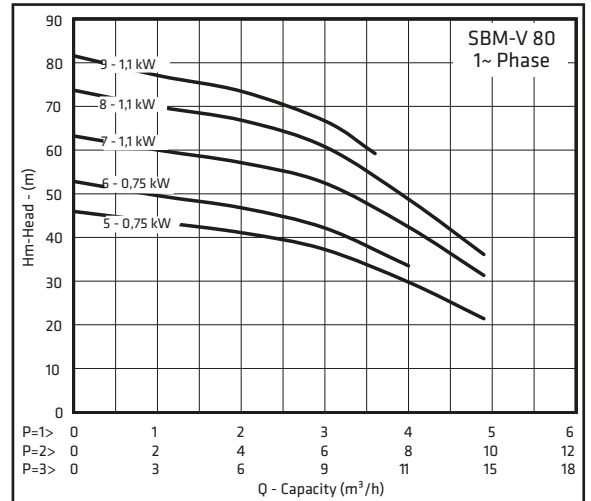
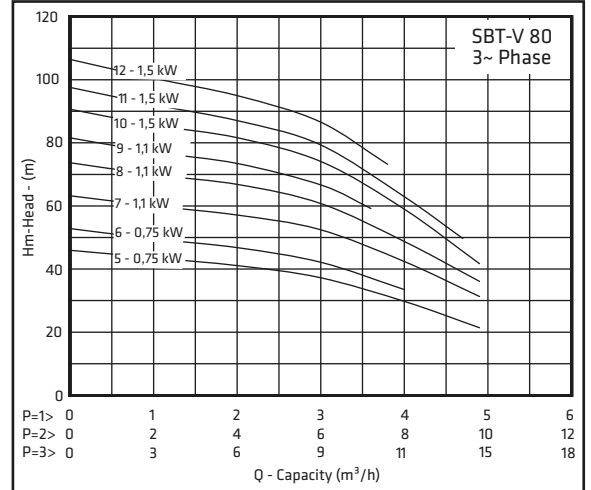
	De	Db	Ba	Bb	Ba (mx)	Bb (mx)	Ha (mx)	Ka	Kb	E	E1	A	C1	KG
2xSBM-V 80/5							522						185	66
2xSBM-V 80/6							544						205	67
2xSBM-V 80/7	1 1/4"	1 1/4"	700	350	825	445	566	753	630	320	420	390	90	69
2xSBM-V 80/8							588						250	71
2xSBM-V 80/9							610						272	72.5

	De	Db	Ba	Bb	Ba (mx)	Bb (mx)	Ha (mx)	Ka	Kb	E	E1	A	C1	KG
2xSBT-V 80/5							515						185	63
2xSBT-V 80/6							535						205	64
2xSBT-V 80/7							560						225	66.5
2xSBT-V 80/8							575						245	67
2xSBT-V 80/9	1 1/4"	1 1/4"	650	300	725	405	605	725	550	280	375	370	85	68
2xSBT-V 80/10							625						295	71
2xSBT-V 80/11							645						315	72.5
2xSBT-V 80/12							665						335	73.5

	De	Db	Ba	Bb	Ba (mx)	Bb (mx)	Ha (mx)	Ka	Kb	E	E1	A	C1	KG
3xSBM-V 80/5							522						185	97.5
3xSBM-V 80/6							543						206	99
3xSBM-V 80/7	1 1/4"	1 1/4"	950	350	1085	460	566	810	880	320	430	400	90	101
3xSBM-V 80/8							588						250	104
3xSBM-V 80/9							610						272	106

	De	Db	Ba	Bb	Ba (mx)	Bb (mx)	Ha (mx)	Ka	Kb	E	E1	A	C1	KG
3xSBT-V 80/5							515						185	93
3xSBT-V 80/6							535						205	94
3xSBT-V 80/7							560						225	98
3xSBT-V 80/8							575						245	99
3xSBT-V 80/9	1 1/2"	1 1/2"	900	300	1005	420	605	775	800	280	385	380	85	100
3xSBT-V 80/10							625						295	105
3xSBT-V 80/11							645						315	107
3xSBT-V 80/12							665						335	109

The specifield dimensions and weights are approximate. Dimensions might be changed.



# Performance Curves and Dimensions

	De	Db	Ba	Bb	Ba (mx)	Bb (mx)	Ha	Ka	Kb	E	E1	A	C1	KG
1xSBM-V 90/4							544						188	34.5
1xSBM-V 90/5	1¼"	1¼"	245	230	360	360	572	225	180	-	-	85	216	36.5
1xSBM-V 90/6							600						244	37

	De	Db	Ba	Bb	Ba (mx)	Bb (mx)	Ha	Ka	Kb	E	E1	A	C1	KG
1xSBT-V 90/4							545						190	32.5
1xSBT-V 90/5							570						215	34.5
1xSBT-V 90/6	1¼"	1¼"	250	230	360	360	600	230	180	-	-	85	245	35.5
1xSBT-V 90/7							625						270	37.5
1xSBT-V 90/8							655						300	38
1xSBT-V 90/9							680						325	39

	De	Db	Ba	Bb	Ba (mx)	Bb (mx)	Ha	Ha (mx)	Ka	Kb	E	E1	A	C1	KG
2xSBM-V 90/4							550							188	80
2xSBM-V 90/5	1½"	1½"	700	350	822	460	578	753	630	320	400	432	90	216	84
2xSBM-V 90/6							606							244	85

	De	Db	Ba	Bb	Ba (mx)	Bb (mx)	Ha	Ha (mx)	Ka	Kb	E	E1	A	C1	KG
2xSBT-V 90/4							545							190	76
2xSBT-V 90/5							570							215	80
2xSBT-V 90/6	1½"	1½"	700	340	770	390	600	725	600	320	360	350	85	245	82
2xSBT-V 90/7							625							270	86
2xSBT-V 90/8							655							300	87
2xSBT-V 90/9							680							325	88

	De	Db	Ba	Bb	Ba (mx)	Bb (mx)	Ha	Ha (mx)	Ka	Kb	E	E1	A	C1	KG
3xSBM-V 90/4							550							188	105
3xSBM-V 90/5	2"	2"	950	350	1085	460	578	810	880	320	430	386	90	216	111
3xSBM-V 90/6							606							244	113

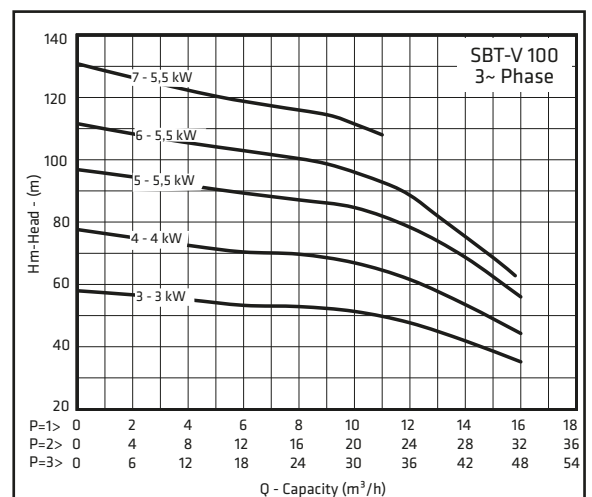
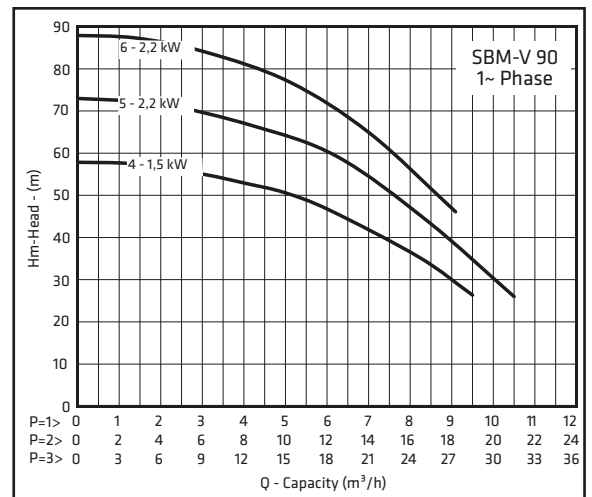
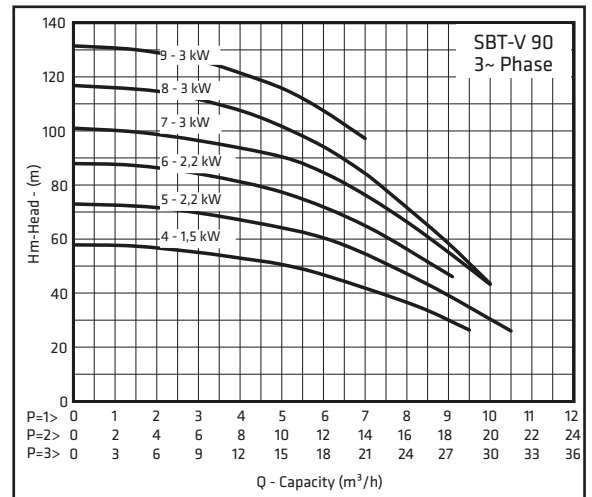
	De	Db	Ba	Bb	Ba (mx)	Bb (mx)	Ha	Ha (mx)	Ka	Kb	E	E1	A	C1	KG
3xSBT-V 90/4							545							190	100
3xSBT-V 90/5							570							215	106
3xSBT-V 90/6							600							245	109
3xSBT-V 90/7	2"	2"	950	340	1085	420	625	810	850	320	375	365	85	270	104
3xSBT-V 90/8							655							300	106
3xSBT-V 90/9							680							325	118

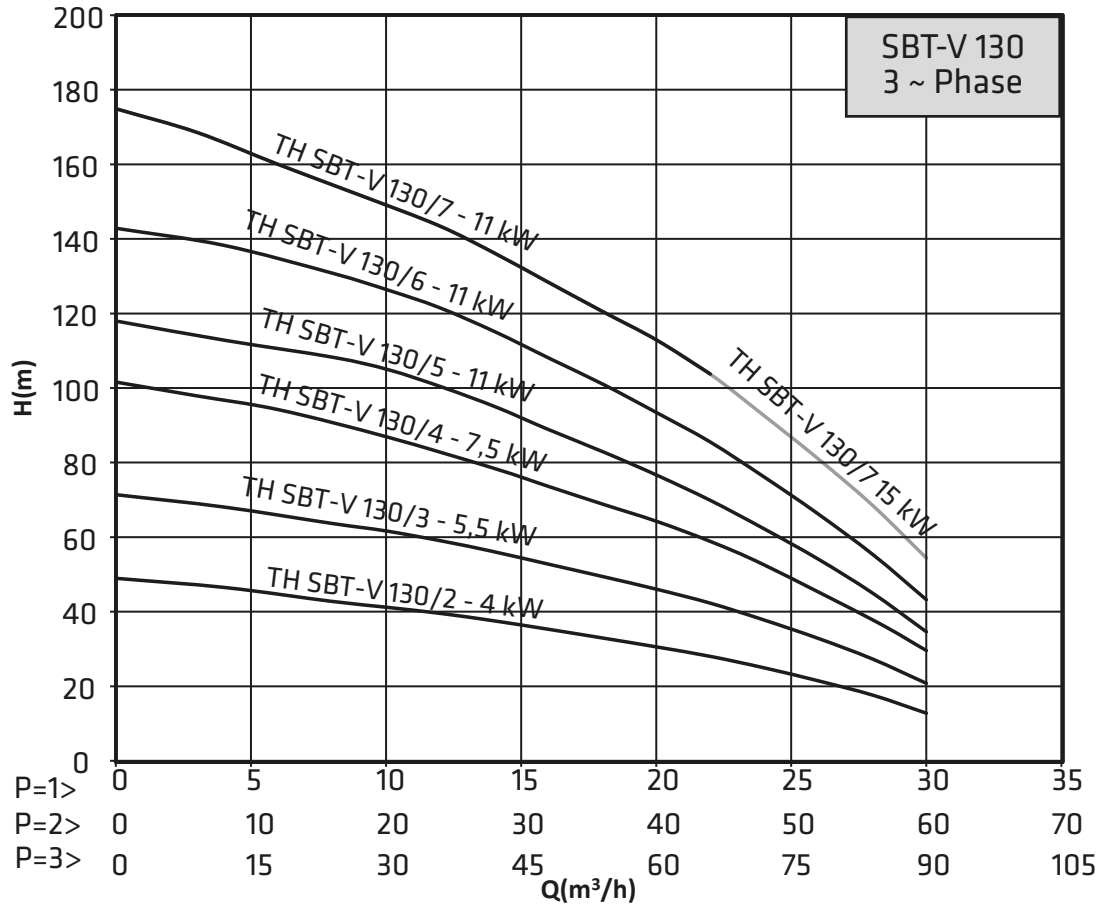
	De	Db	Ba	Bb	Ba (mx)	Bb (mx)	Ha	Ka	Kb	E	E1	A	C1	KG
1xSBT-V 100/3							585						185	44
1xSBT-V 100/4							615						215	45
1xSBT-V 100/5	2"	1½"	300	260	400	400	650	280	210	-	-	95	250	50
1xSBT-V 100/6							685						285	51
1xSBT-V 100/7							715						315	52

	De	Db	Ba	Bb	Ba (mx)	Bb (mx)	Ha	Ha (mx)	Ka	Kb	E	E1	A	C1	KG
2xSBT-V 100/3							585							185	96
2xSBT-V 100/4							615							215	99
2xSBT-V 100/5	2"	2"	700	340	785	470	650	725	600	320	430	425	95	250	110
2xSBT-V 100/6							685							285	111
2xSBT-V 100/7							715							315	112

	De	Db	Ba	Bb	Ba (mx)	Bb (mx)	Ha	Ha (mx)	Ka	Kb	E	E1	A	C1	KG
3xSBT-V 100/3							585							185	143
3xSBT-V 100/4							615							215	148
3xSBT-V 100/5	2½"	2½"	950	340	1060	500	650	780	850	320	435	430	95	250	163
3xSBT-V 100/6							685							285	165
3xSBT-V 100/7							715							315	166

The specified dimensions and weights are approximate. Dimensions might be changed.





	De	Db	Ba	Bb	Ba (mx)	Bb (mx)	Ha	Ka	Kb	E	E1	A	C1	KG
1xSBT-V 130/2							763						183	62
1xSBT-V 130/3					420		800						220	65
1xSBT-V 130/4	2½"	2"	420	300		455	837	370	280	-	-	102	257	70
1xSBT-V 130/5							929						294	140
1xSBT-V 130/6					522		966						331	145
1xSBT-V 130/7							1005						368	152

	De	Db	Ba	Bb	Ba (mx)	Bb (mx)	Ha	Ha (mx)	Ka	Kb	E	E1	A	C1	KG
2xSBT-V 130/2							763							183	180
2xSBT-V 130/3			800	340	822		800	720	700	320	560	535		220	200
2xSBT-V 130/4	3"	3"				615	837						102	257	210
2xSBT-V 130/5							929							294	300
2xSBT-V 130/6			1050	380	1050		966	865	950	350	590	565		331	310
2xSBT-V 130/7							1005							368	315

	De	Db	Ba	Bb	Ba (mx)	Bb (mx)	Ha	Ha (mx)	Ka	Kb	E	E1	A	C1	KG
3xSBT-V 130/2							763							183	255
3xSBT-V 130/3			1150	380	1350		800	825	1150	1150				220	260
3xSBT-V 130/4	4"	4"				685	837				560	575	102	257	285
3xSBT-V 130/5							929							294	460
3xSBT-V 130/6			1450	380	1450		966	965	1350	1350				331	470
3xSBT-V 130/7							1005							368	485

The specified dimensions and weights are approximate. Dimensions might be changed.