

# TH SB BOOSTERS



## 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 structure saves space.

## Technical Data

Flow \_\_\_\_\_ up to 15 m<sup>3</sup>/h

Head \_\_\_\_\_ up to 120 m

Operating 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 Equivalents

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>	Galvanized Steel	AISI 304
<b>Frame</b>	Galvanized Steel	-
<b>Accessories</b>		
Valve	Brass	-
Check Valve	Brass	-

## Booster Designation

Booster Type \_\_\_\_\_

Number of Pumps \_\_\_\_\_

Pump Type \_\_\_\_\_

T : Three-phase M : Mono-Phase \_\_\_\_\_

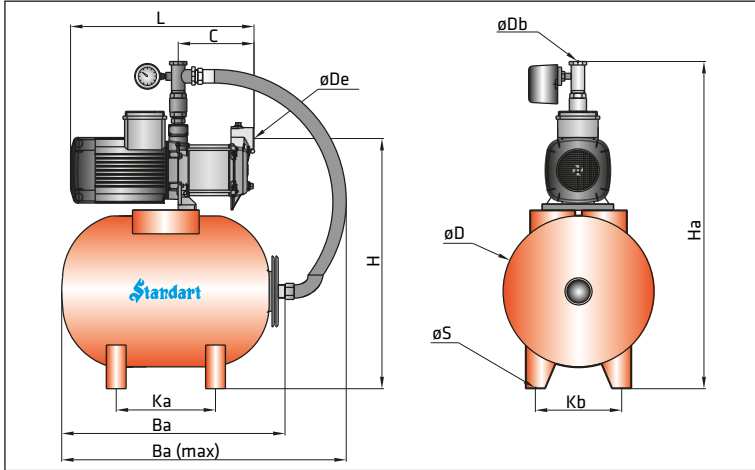
Vertical Installation \_\_\_\_\_

Motor Building Size \_\_\_\_\_

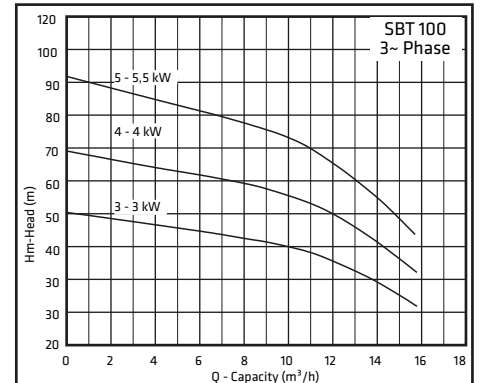
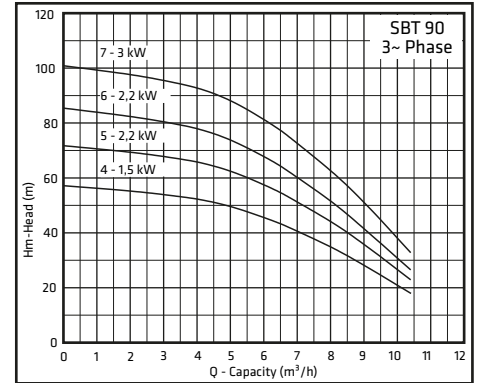
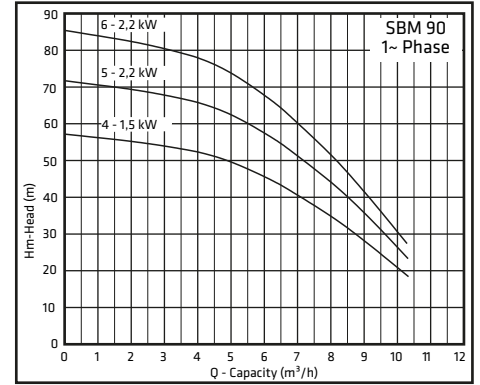
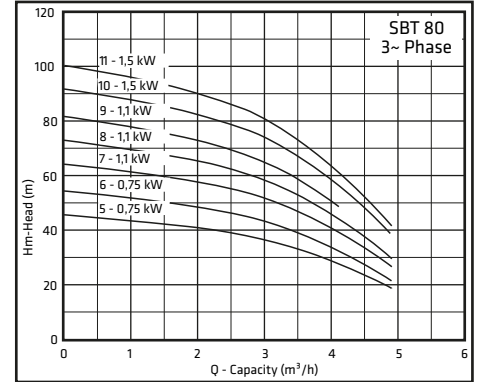
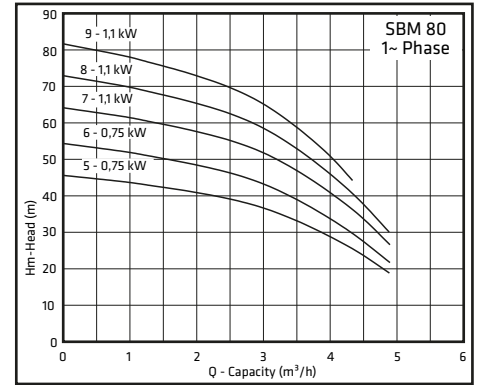
Number of Stages \_\_\_\_\_

# TH 1x SB T-V 80 /10

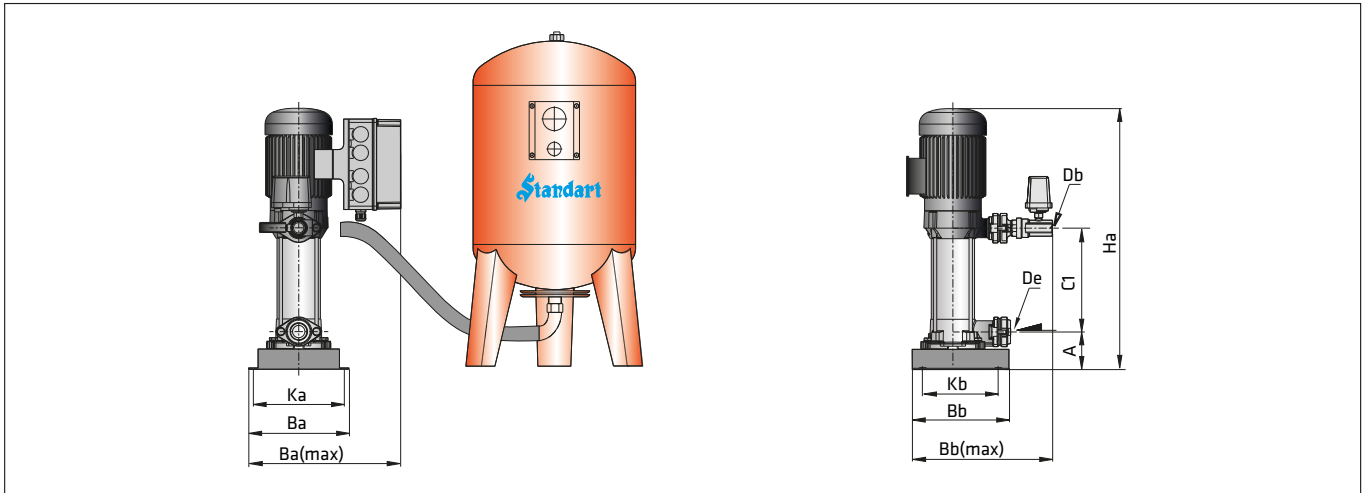
## Horizontal Tanked Boosters



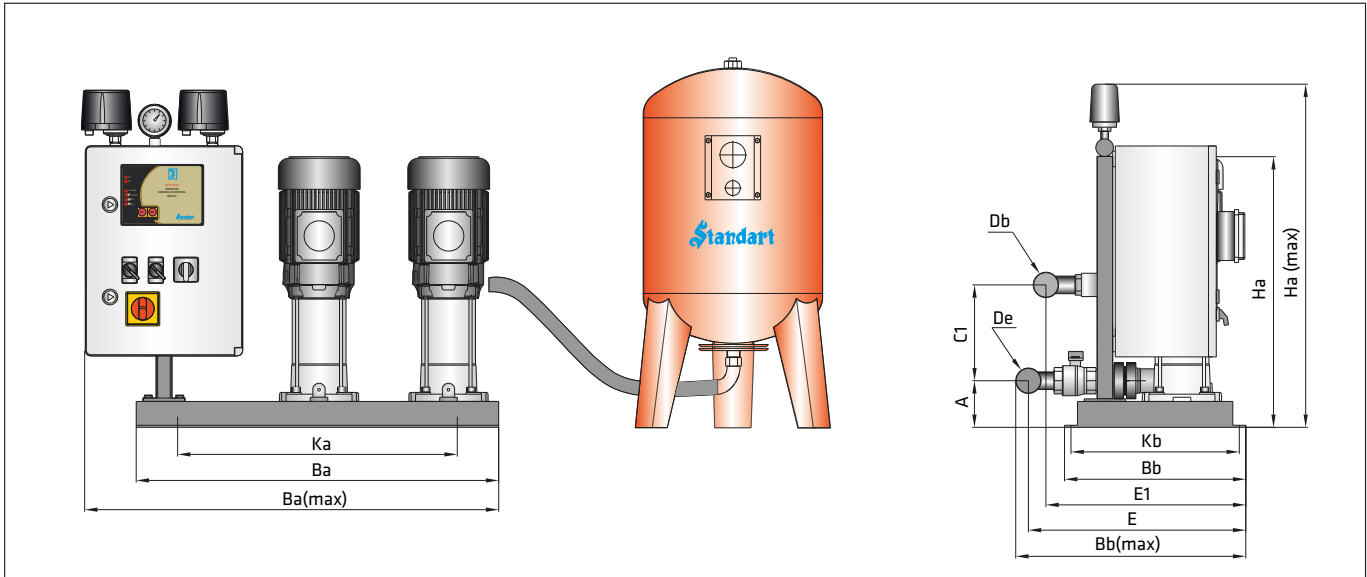
24 Tank	De	Db	Ba	Ba(maks)	H	Ha	Ka	Kb	L	C	øD	øS	KG
SBM 80/5-24	1 1/4"	1"	480	587	465	669	190	158	455	200	265	10	25,8
SBM 80/6-24									475	230			26,3
SBM 80/7-24									500	250			26,9
SBM 80/8-24									520	270			28,1
SBM 80/9-24									540	295			28,8
24 Tank	De	Db	Ba	Ba(maks)	H	Ha	Ka	Kb	L	C	øD	øS	KG
SBT 80/5-24	1 1/4"	1"	480	587	465	669	190	158	453	206	265	10	24,3
SBT 80/6-24									475	228			24,8
SBT 80/7-24									497	250			26,1
SBT 80/8-24									519	272			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 Tank	De	Db	Ba	Ba(maks)	H	Ha	Ka	Kb	L	C	øD	øS	KG
SBM 80/5-50	1 1/4"	1"	600	696	565	779	220	232	453	206	280	10	31,7
SBM 80/6-50									475	228			32,2
SBM 80/7-50									497	250			32,8
SBM 80/8-50									519	272			34
SBM 80/9-50									541	294			34,7
50 Tank	De	Db	Ba	Ba(maks)	H	Ha	Ka	Kb	L	C	øD	øS	KG
SBT 80/5-50	1 1/4"	1"	600	696	565	779	220	232	453	206	380	10	30,2
SBT 80/6-50									475	228			30,7
SBT 80/7-50									497	250			32
SBT 80/8-50									519	272			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 Tank	De	Db	Ba	Ba(maks)	H	Ha	Ka	Kb	L	C	øD	øS	KG
SBM 90/4-50	1 1/4"	1 1/4"	600	696	603	796	220	232	489	218	380	10	39,3
SBM 90/5-50									517	246			41,3
SBM 90/6-50									545	274			41,8
50 Tank	De	Db	Ba	Ba(maks)	H	Ha	Ka	Kb	L	C	øD	øS	KG
SBT 90/4-50	1 1/4"	1 1/4"	600	696	603	796	220	232	489	218	380	10	37,3
SBT 90/5-50									517	246			39,3
SBT 90/6-50									545	274			40,3
SBT 90/7-50									573	302			42,3
80 Tank	De	Db	Ba	Ba(maks)	H	Ha	Ka	Kb	L	C	øD	øS	KG
SBM 90/4-80	1 1/4"	1 1/4"	635	828	708	901	330	276	489	218	460	10	44,1
SBM 90/5-80									517	246			46,1
SBM 90/6-80									545	274			46,6
80 Tank	De	Db	Ba	Ba(maks)	H	Ha	Ka	Kb	L	C	øD	øS	KG
SBT 90/4-80	1 1/4"	1 1/4"	635	828	708	901	330	276	489	218	460	10	42,1
SBT 90/5-80									517	246			44,1
SBT 90/6-80									545	274			45,1
SBT 90/7-80									573	302			47,1
80 Tank	De	Db	Ba	Ba(maks)	H	Ha	Ka	Kb	L	C	øD	øS	KG
SBT 100/3-80	1 1/2"	1 1/2"	635	880	746	1007	330	276	530	219	460	10	51,3
SBT 100/4-80									563	252			52,8
SBT 100/5-80									596	285			58
100T ank	De	Db	Ba	Ba(maks)	H	Ha	Ka	Kb	L	C	øD	øS	KG
SBT 100/3-100	1 1/2"	1 1/2"	820	940	746	1007	330	276	530	219	460	10	52,6
SBT 100/4-100									563	252			54,1
SBT 100/5-100									596	285			59,3



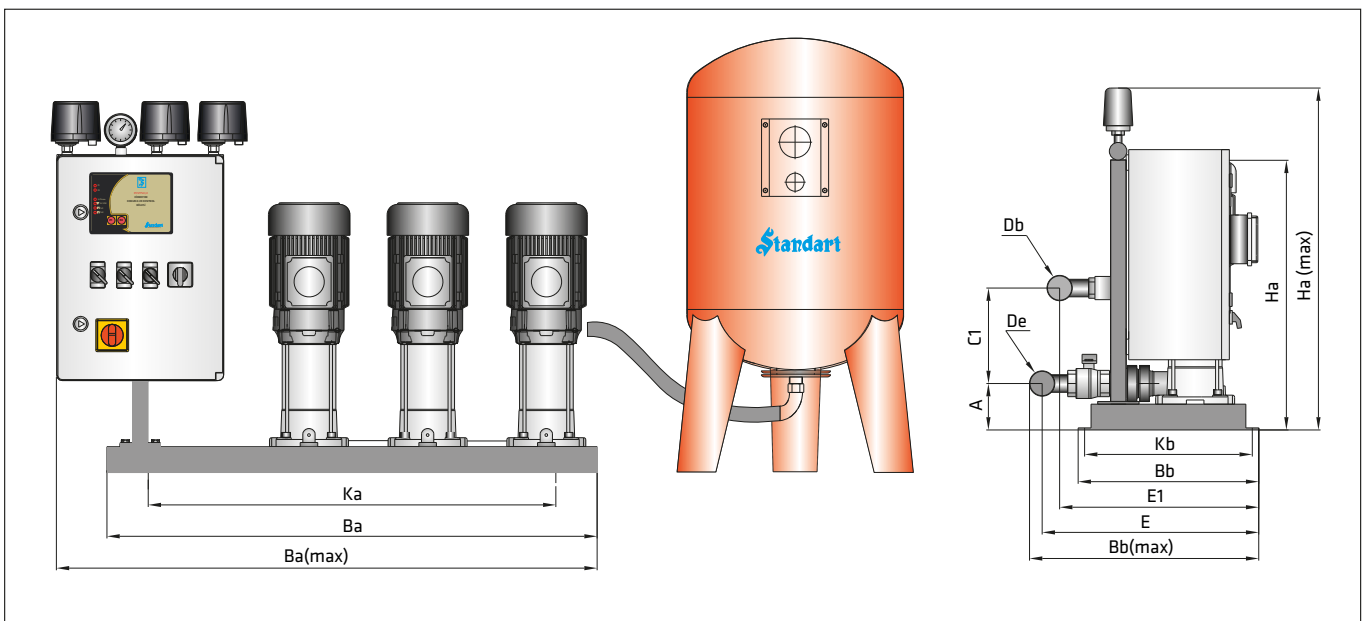
Booster set with one pump



Booster set with two pump



Booster set with three pump



# Performance Curves and Dimensions

# TH SB

	De	Db	Ba	Bb	Ba(max)	Bb(max)	Ha	Ha(max)	Ka	Kb	E	E1	A	C1	w
1xSBM-V 80/5	1 1/4"	1 1/4"	240	230	360	335	517	539	220	180	-	-	85	184	26,5
1xSBM-V 80/6							539	561						206	27
1xSBM-V 80/7							561	583						228	27,6
1xSBM-V 80/8							583	605						250	28,8
1xSBM-V 80/9							605	627						272	29,5

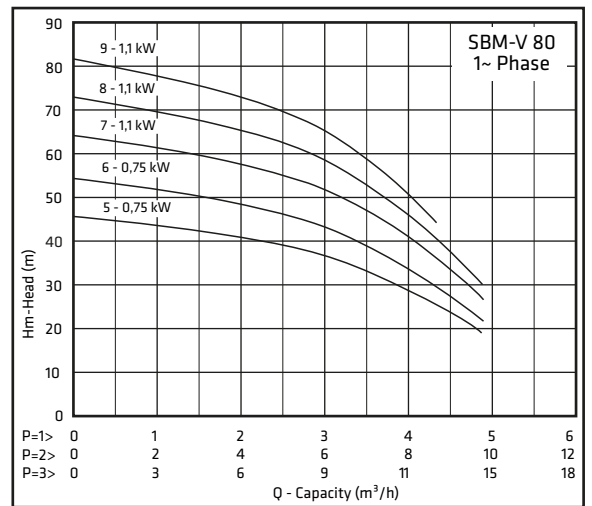
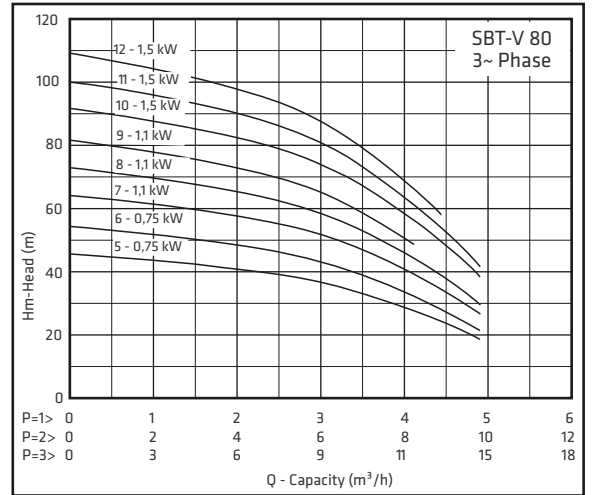
	De	Db	Ba	Bb	Ba(max)	Bb(max)	Ha	Ha(max)	Ka	Kb	E	E1	A	C1	w
1xSBT-V 80/5	1 1/4"	1 1/4"	240	230	360	335	517	517	220	180	-	-	85	184	25
1xSBT-V 80/6							539	539						206	25,5
1xSBT-V 80/7							561	561						228	26,8
1xSBT-V 80/8							583	583						250	27
1xSBT-V 80/9							605	605						272	27,5
1xSBT-V 80/10							627	627						294	29
1xSBT-V 80/11							649	649						316	30
1xSBT-V 80/12	671	671	338	30,5											

	De	Db	Ba	Bb	Ba(max)	Bb(max)	Ha	Ha(max)	Ka	Kb	E	E1	A	C1	w
2xSBM-V 80/5	1 1/4"	1 1/4"	700	350	825	445	522	753	630	320	420	390	90	184	66
2xSBM-V 80/6							544							208	67
2xSBM-V 80/7							566							228	69
2xSBM-V 80/8							588							250	71
2xSBM-V 80/9							610							272	72,5

	De	Db	Ba	Bb	Ba(max)	Bb(max)	Ha	Ha(max)	Ka	Kb	E	E1	A	C1	w
2xSBT-V 80/5	1 1/4"	1 1/4"	700	350	825	445	522	753	630	320	420	390	85	184	63
2xSBT-V 80/6							544							206	64
2xSBT-V 80/7							566							228	66,5
2xSBT-V 80/8							588							250	67
2xSBT-V 80/9							610							272	68
2xSBT-V 80/10							632							294	71
2xSBT-V 80/11							654							316	72,5
2xSBT-V 80/12	676	338	73,5												

	De	Db	Ba	Bb	Ba(max)	Bb(max)	Ha	Ha(max)	Ka	Kb	E	E1	A	C1	w
3xSBM-V 80/5	1 1/2"	1 1/2"	950	350	1085	460	522	810	880	320	430	400	90	184	97,5
3xSBM-V 80/6							543							206	99
3xSBM-V 80/7							566							228	101
3xSBM-V 80/8							588							250	104
3xSBM-V 80/9							610							272	106

	De	Db	Ba	Bb	Ba(max)	Bb(max)	Ha	Ha(max)	Ka	Kb	E	E1	A	C1	w
3xSBT-V 80/5	1 1/2"	1 1/2"	950	350	1085	460	522	810	880	320	430	400	90	184	93
3xSBT-V 80/6							544							206	94
3xSBT-V 80/7							566							228	98
3xSBT-V 80/8							588							250	99
3xSBT-V 80/9							610							272	100
3xSBT-V 80/10							632							294	105
3xSBT-V 80/11							654							316	107
3xSBT-V 80/12	676	338	109												



	De	Db	Ba	Bb	Ba(maks)	Bb(maks)	Ha	Ha(maks)	Ka	Kb	E	E1	A	C1	KG
1xSBM-V 90/4	1 1/4"	1 1/4"	245	230	360	354	544	544	225	180	-	-	85	188	34,5
1xSBM-V 90/5							572	572						216	36,5
1xSBM-V 90/6							600	600						244	37

	De	Db	Ba	Bb	Ba(maks)	Bb(maks)	Ha	Ka	Kb	E	E1	A	C1	KG
1xSBT-V 90/4	1 1/4"	1 1/4"	250	230	360	340	550	220	175	-	-	90	188	32,5
1xSBT-V 90/5							580						216	34,5
1xSBT-V 90/6							610						244	35,5
1xSBT-V 90/7							640						272	37,5
1xSBT-V 90/8							670						300	38
1xSBT-V 90/9	700	328	39											

	De	Db	Ba	Bb	Ba(maks)	Bb(maks)	Ha	Ha(maks)	Ka	Kb	E	E1	A	C1	KG
2xSBM-V 90/4	1 1/2"	1 1/2"	700	350	822	460	550	753	630	320	400	432	90	188	80
2xSBM-V 90/5						578	216							84	
2xSBM-V 90/6						606	244							85	

	De	Db	Ba	Bb	Ba(maks)	Bb(maks)	Ha	Ha(maks)	Ka	Kb	E	E1	A	C1	KG
2xSBT-V 90/4	1 1/2"	1 1/2"	695	345	800	430	550	730	645	325	405	400	90	188	76
2xSBT-V 90/5							580							216	80
2xSBT-V 90/6							610							244	82
2xSBT-V 90/7							640							272	86
2xSBT-V 90/8							670							300	87
2xSBT-V 90/9	700	328	88												

	De	Db	Ba	Bb	Ba(maks)	Bb(maks)	Ha	Ha(maks)	Ka	Kb	E	E1	A	C1	KG
3xSBM-V 90/4	2"	2"	950	350	1085	485	550	810	880	320	430	386	90	188	105
3xSBM-V 90/5						578	216							111	
3xSBM-V 90/6						606	244							113	

	De	Db	Ba	Bb	Ba(maks)	Bb(maks)	Ha	Ha(maks)	Ka	Kb	E	E1	A	C1	KG
3xSBT-V 90/4	2"	2"	950	345	1065	420	550	820	880	325	395	385	125	184	100
3xSBT-V 90/5							580							206	106
3xSBT-V 90/6							610							228	109
3xSBT-V 90/7							640							250	104
3xSBT-V 90/8							670							272	106
3xSBT-V 90/9	700	294	118												

	De	Db	Ba	Bb	Ba(maks)	Bb(maks)	Ha	Ka	Kb	E	E1	A	C1	KG
1xSBT-V 100/3	1 1/2"	1 1/2"	275	230	410	415	580	220	175	-	-	100	186	44
1xSBT-V 100/4							613						219	45
1xSBT-V 100/5							646						252	50
1xSBT-V 100/6							679						285	51
1xSBT-V 100/7							712						318	52

	De	Db	Ba	Bb	Ba(maks)	Bb(maks)	Ha	Ha(maks)	Ka	Kb	E	E1	A	C1	KG
2xSBT-V 100/3	2"	2"	695	345	800	500	590	720	645	325	470	465	100	186	96
2xSBT-V 100/4							620							219	99
2xSBT-V 100/5							650							252	110
2xSBT-V 100/6							680							285	111
2xSBT-V 100/7							710							318	112

	De	Db	Ba	Bb	Ba(maks)	Bb(maks)	Ha	Ha(maks)	Ka	Kb	E	E1	A	C1	KG
3xSBT-V 100/3	2 1/2"	2 1/2"	950	345	1065	515	590	820	880	325	480	475	135	186	143
3xSBT-V 100/4							620							219	148
3xSBT-V 100/5							650							252	163
3xSBT-V 100/6							680							285	165
3xSBT-V 100/7							710							318	166

