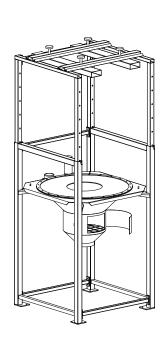
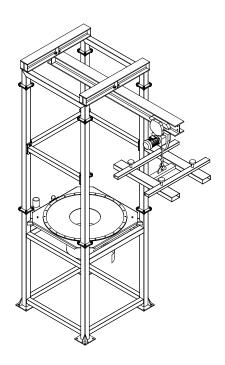


SBB

FLEXIBLE INTERMEDIATE **BULK CONTAINER UNLOADER**

TECHNICAL CATALOG







Manual No. EXT.096.--.T.EN Issue: A Latest Update: September 2012

ORIGINAL INSTRUCTIONS IN ENGLISH





All the products described in this catalogue are manufactured according to **WAMGROUP S.p.A. Quality System procedures**. The Company's Quality System, certified in July 1994 according to International Standards **UNI EN ISO 9002** and extended to the latest release of **UNI EN ISO 9001**, ensures that the entire production process, starting from the processing of the order to the technical service after delivery, is carried out in a controlled manner that guarantees the quality standard of the product.

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INDEX

SUMMARY

1.0	DESCRIPTION AND TECHNICAL FEATURES	1
	1.1 Description	1
	1.2 Function	1
2.0	APPLICATION	2
	2.1 Main features	2
	2.2 Indications for use	
3.0	STANDARD SUPPLY AND OPTIONS	
	3.1 Models available	
	3.2 Basic machine description	5
	3.3 Range - Modular code	g
	3.4 Options	11
	3.5 Applications	
4.0	OPERATING LIMITS	37
	DIMENSIONS AND WEIGHTS	
	INFORMATION REQUIRED FOR SIZING THE FOLIPMENT	51



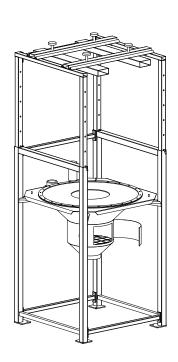
1.0 DESCRIPTION AND TECHNICAL FEATURES

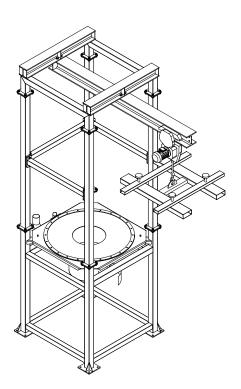
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EXT.096.--.T.EN Issue: A

1.1 Description

SBB-type **FIBC** Dischargers consist of a steel frame complete with a material discharge hopper and an upper mobile cross bar for lifting of the filled up bag by forklift truck into the Discharger.





1.2 Function

SBB is a modular system for discharging **Flexible Intermediate Bulk Containers** (Big Bags) in different configurations depending on the application. Easy introduction of the **FIBC** into the support frame and dust-free discharging along with a variety of options make **SBB** extremely user-friendly.

The four loops of the **FIBC** are attached to the hooks of the detached cross bar that has previously been laid on top of the **FIBC**. The cross bar with the attached **FIBC** is then picked up by a forklift truck and introduced into the frame of the **SBB** Discharger. Once the **FIBC** has settled on the rubber seal of the discharge hopper the outlet closing rope of the **FIBC** can be pulled open through the inspection hatch of the discharge hopper.



2.0 APPLICATION



09.12

EXT.096.--.T.EN Issue: A

2.1 Main features

The FIBCs, (code SBB) are devices suitable for discharging bulk bags of different shapes and sizes.

They are manufactured from shot-blasted, painted carbon steel; on request, they may be supplied in 304 stainless steel, entirely or only the parts in contact with the product to prevent its contamination.

The numerous models and sizes of **SBB** available, together with the complete range of accessories make these machines suitable for use in virtually all applications in various industrial sectors and with different types of **FIBCs**: in fact, the hopper, which can also be supplied alone, is specially designed for optimising the bulk material flow.

MACHINE CODE

- SBB

MACHINE TYPE

- FLEXIBLE INTERMEDIATE BULK CONTAINER UNLOADER

USE

- Emptying **FIBC**s of various sizes containing product in powder or granular form.

ADVANTAGES

- Equipment which can be assembled according to requirements.
- The model with hoist does not require the use of a forklift truck.
- The removable frame makes it possible to empty **FIBC**s 600 to 1800 mm in height.
- The operator is protected from falling **FIBC**s by the four posts of the frame.
- The FIBC valve can be accessed through the hatch.
- The pneumatic activators optimise the emptying of FIBCs.
- Product storage capacity in the hopper up to 330 I (model 125 and 510 I model 150).

2.2 Indications for use

The **FIBC** discharger is NOT designed for operating in potentially explosive atmospheres or with materials that could be hazardous by contact and/or inhalation, or else dangerous from a bacteriological or viral viewpoint.



Danger - Warning

If the machine has to match similar requirements, please contact the Manufacturer.

1

EXT.096.--.T.EN Issue: A

3.1 Models available

MODEL T:

UNLOADING HOPPER

- SBB. .125.T
- SBB._.150.T

Supplied separately, in two sizes, it is carefully designed to optimize the flowability of materials.

It comprises:

- seals made of material suitable for the type of use.
- adjustable weight motovibrator.
- vent pipe with filter bag.
- finger mesh.
- inspection hatch with seal.
- damper supports.

MODEL C:

HOPPER WITH FEET

- SBB._.125.C
- SBB._.150.C

Thanks to its structure, there is plenty of space for using different systems for loading the FIBCs.

It comprises:

- a unloading hopper.
- supporting frame made of tubular elements having suitable size and thickness to ensure sturdiness and solidity.
- cross with pegs for hooking FIBC harness, lifting hooks and tubular elements for lift truck forks

MODEL S:

HOPPER WITH REMOVABLE FRAME

- SBB._.125.S
- SBB._.150.S

Athough it is identical as regards design and use, the difference lies in the size of the **FIBC**s which can be accepted.

These comprise:

- an unloading hopper.
- a supporting tubular frame having size and thickness suitable to ensure sturdiness and solidity.
- a removable frame which makes it possible to adapt the Unloader for use with FIBCs of different heights.
- cross with pegs for hooking FIBC harness, lifting hooks and tubular elements for lift truck forks

1

EXT.096.--.T.EN Issue: A

MODEL M:

FRAME WITH MONORAIL

- SBB._.125.M

The special feature of this equipment lies in the fact that it does not require the use of a fork lift truck for external loading of **FIBC**s, as it is designed for use with its own hoist (not supplied) which makes it possible to operate independently during the various phases.

The equipment comprises:

- an unloading hopper.
- a supporting frame made of suitably sized tubular elements thick enough to ensure the required sturdiness and solidity.
- a monorail for the hoist (hoist excluded).
- cross with pegs for hooking the **FIBC** harness, lifting hooks and tubular elements for using a lift truck if necessary for handling **FIBC**s.

ACCESSORIES

- Hopper seal made of food- grade material.
- Pneumatic activators.

Materials featuring poor flowability do not flow out of the **FIBC** easily. It is therefore necessary to use pneumatic activators. These devices act directly at the bottom of the **FIBC**, causing lifting and lowering of the opposite corners to stimulate the flow of material compacted at the bottom.

The gradual movement of the activators makes the FIBC assume a "V" shape, to eliminate the deadlock points.

For more information, see Technical Catalogue - Maintenance KSC.

- Cutting device.

It is used for cutting FIBCs without valves which cannot be recycled after emptying.

- Hose connector kit available in black or white food- grade rubber.
- Round or square flange for hopper.
- Raised feet for lifting the entire structure.
- Mechanical limit stop for signalling door open status.
- Manual gate valve at outlet.

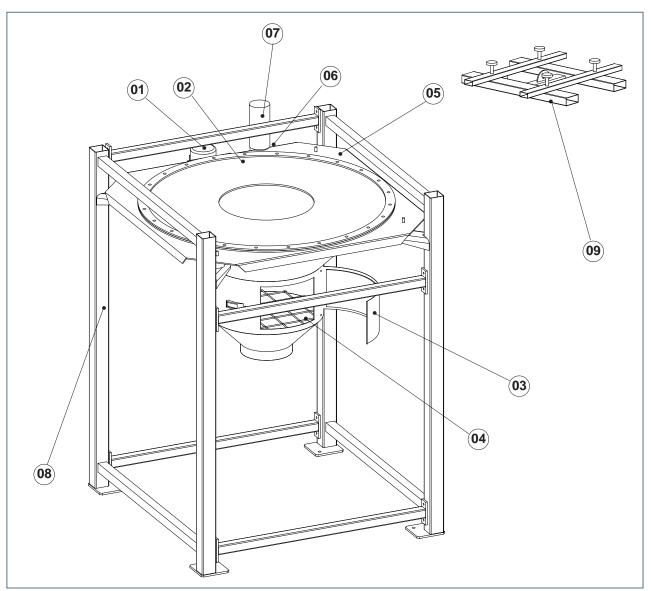




EXT.096.--.T.EN Issue: A

3.2 Basic machine description

SBB._.125.C SBB._.150.C



ITEM POS.	DESCRIPTION	MATERIAL	FINISHING
1	Motovibrator -		RAL 2004
2	Seal	SBR	black
3	Access door	Carbon steel	RAL 7001
4	Grille	304 SS	-
5	Vibrating hopper	Carbon steel	RAL 7001
6	Venting pipe	Carbon steel	RAL 7001
7	Filter bag	Felt	-
8	Frame	Carbon steel	RAL 7001
9	Lifting cross	Carbon steel	RAL 7001

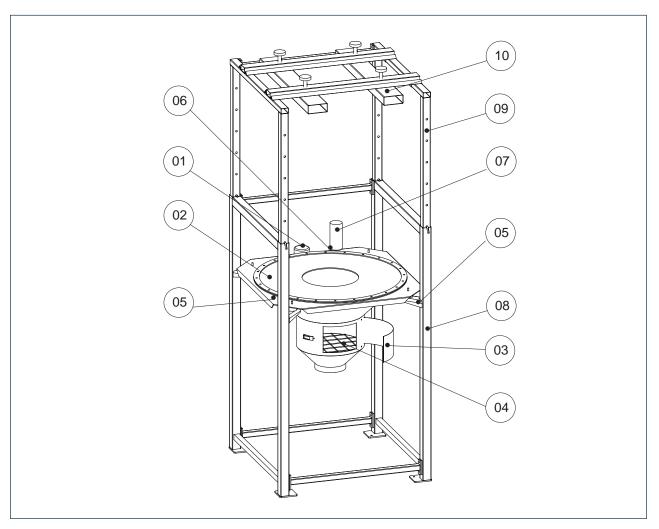
SBB

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EXT.096.--.T.EN Issue: A

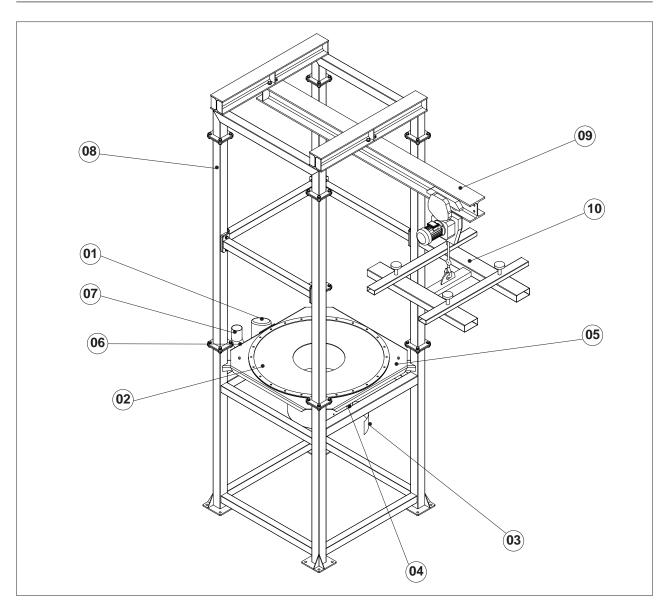
SBB._.125.S SBB._.150.S



ITEM POS.	DESCRIPTION	MATERIAL	FINISHING
1	Motovibrator	-	RAL 2004
2	Seal	SBR	black
3	Access door	Carbon steel	RAL 7001
4	Grille	304 SS	-
5	Vibrating hopper	Carbon steel	RAL 7001
6	Venting pipe	Carbon steel	RAL 7001
7	Filter bag	Felt - Filz	-
8	Frame	Carbon steel	RAL 7001
9	Monorail	Carbon steel	RAL 7001
10	Lifting cross	Carbon steel	RAL 7001

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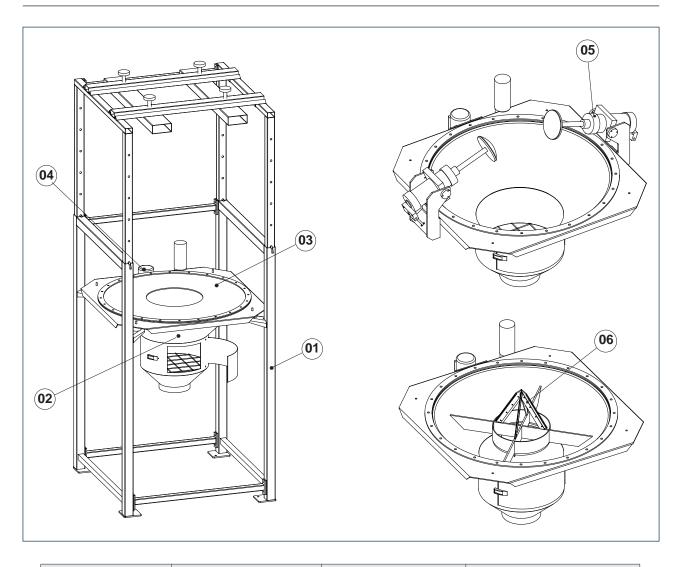
EXT.096.--.T.EN Issue: A



ITEM POS.	DESCRIPTION	MATERIAL	FINISHING
1	Motovibrator	-	RAL 2004
2	Seal	SBR	black
3	Access door	Carbon steel	RAL 7001
4	Grille	304 SS	-
5	Vibrating hopper	Carbon steel	RAL 7001
6	Venting pipe	Carbon steel	RAL 7001
7	Filter bag	Felt - Filz	-
8	Frame	Carbon steel	RAL 7001
9	Monorail	Carbon steel	RAL 7001
10	Lifting cross	Carbon steel	RAL 7001

1

EXT.096.--.T.EN Issue: A



ITEM POS.	DESCRIPTION	MATERIAL	FINISHING
1	Supporting frame	304L SS.	Mesc buffing
2	Vibrating hopper	304L SS.	Mesc buffing
2	Seal	NBR	white
3	Seal	food-grade	white
4	Larger vibrator	-	RAL 2004
5	Pneumatic activators Kit	Carbon steel	RAL 7001
		304L SS	Mesc buffing
		Carbon steel	RAL 7001
6	Cutting Kit	304L SS	Mesc buffing

^{*}According to UNI-EN 10088 (1997)/AISI (1974) / DIN 17440 (1985)



O = 220-277/380-480V 60 Hz

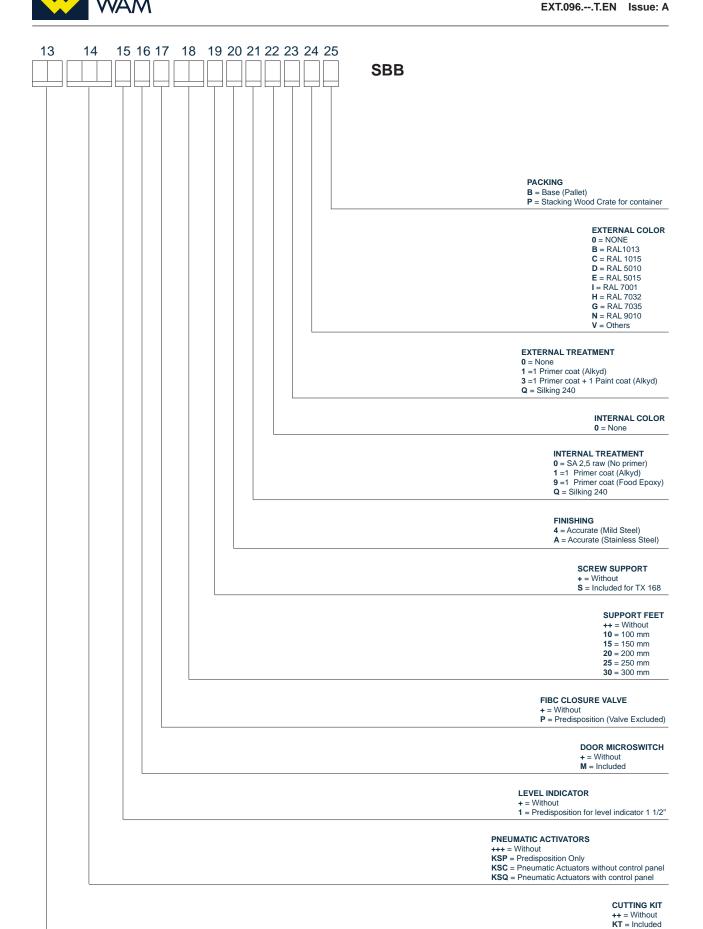
+ = None

3.0 STANDARD SUPPLY AND OPTIONS

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EXT.096.--.T.EN Issue: A

3.3 Range - Modular code 3 4 5 6 8 9 10 11 12 **SBB** MATERIAL 1 = Entirely in Mild Steel 2 = Hopper Stainless Steel 304L, Frame in Mild Steel 3 = Hopper Stainless Steel 316L, Frame in Mild Steel 4 = Entirely in AISI 304L 5 = Entirely in AISI 316L **COUNTERFLANGE MATERIAL** 1 = Mild Steel 2 = 304L Stainless Steel 3 = 316L Stainless Steel HOPPER DIAMETER **125** = 1250 mm **150** = 1500 mm FRAME TYPE T = Hopper Without Frame C = Short S = Extensible M = Hoist Rail HOPPER POSITION A = Std Level Discharging **B** = Intermediate Discharging Level C = Floor Level Discharding **OUTLET TYPE** ST = STD **SR** = with manual slide gate OUTLET DIAMETER (mm) **219** = Ø219 **273** = Ø273 **600** = Ø600 **FLANGE** + = Without A = XKF3 Round Flange B = XKF7 Square Flange C = PN10 Flange FLEXIBLE SLEEVE + = Without B = Black Rubber W = White Food Rubber **SEAL TYPE** N = Black Rubber **B** = White Food Grade Rubber VIBRATOR SIZE **++** = None **10** = 0,10 kW 18 = 0.18 kWVIBRATOR VOLTAGES 1 = 220-240/380-415V 50 Hz





1

EXT.096.--.T.EN Issue: A

3.4 Options

2

COUNTERFLANGE MATERIAL

1 = Mild Steel

2 = 304L Stainless Steel

3 = 316L Stainless Steel

HOPPER CONSTRUCTION MATERIAL	INTERNAL NUTS AND BOLTS	EXTERNAL NUTS AND BOLTS
	Grille	Flange
Fe	zinc plated	zinc plated
Parts in contact with the product made of 304L SS	304L SS	zinc plated
All made from 304L SS	304L SS	304L SS

FRAME MATERIAL	EXTERNAL NUTS AND BOLTS
Fe	zinc plated
304L SS	304L SS

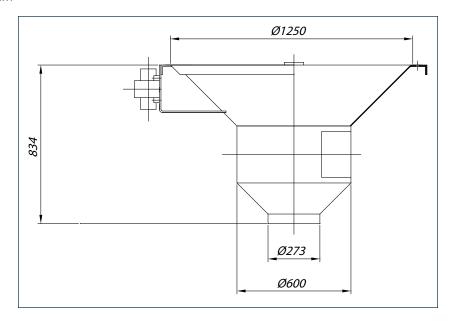


EXT.096.--.T.EN Issue: A

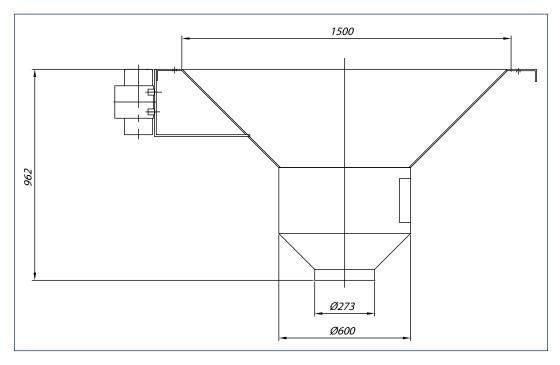


HOPPER DIAMETER

125 = 1250 mm



150 = 1500 mm



* WAM*

3.0 STANDARD SUPPLY AND OPTIONS

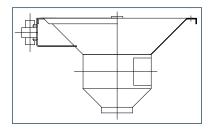
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EXT.096.--.T.EN Issue: A

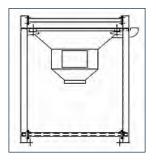


FRAME TYPE

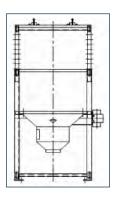
T = Hopper Without Frame



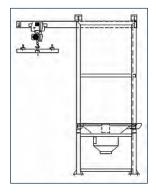
C = Short



S = Extensible



M = Hoist Rail







EXT.096.--.T.EN Issue: A

HOPPER POSITION

A = Std Level Discharging
 B = Intermediate Discharging Level
 C = Floor Level Discharding



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EXT.096.--.T.EN Issue: A

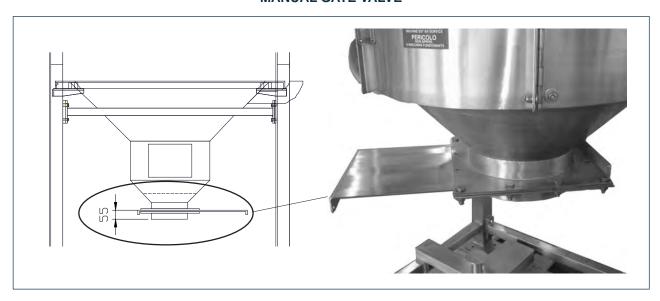


OUTLET TYPE

ST = STD

SR = with Manual Slide Gate

MANUAL GATE VALVE



MATERIAL	Code
Carbon steel	KSMSBB2731A
304L SS	KSMSBB2732A



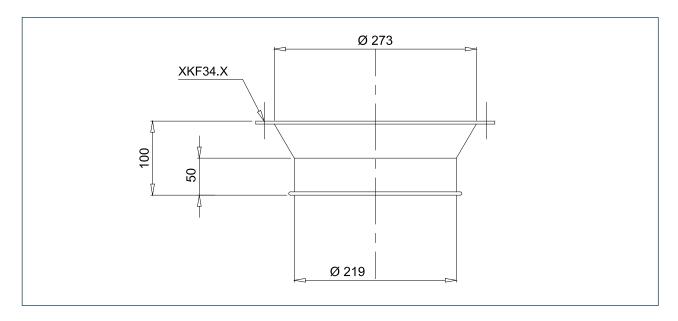
EXT.096.--.T.EN Issue: A

7

OUTLET DIAMETER (mm)

219 = \emptyset 219 **273** = \emptyset 273 **600** = \emptyset 600

REDUCTION SECTION FOR OUTLET SPOUT



MATERIAL	Code
Carbon steel	KMR2732191001
304 SS	KMR2732191002

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EXT.096.--.T.EN Issue: A

8

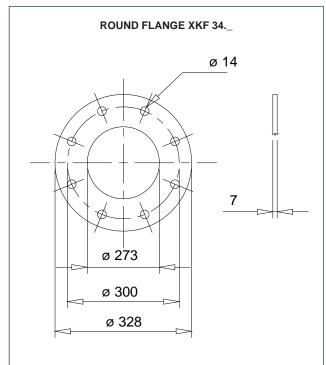
FLANGE

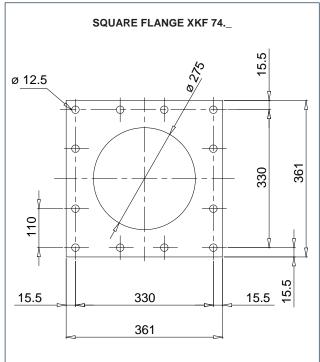
+ = Without

A = XKF3 Round Flange

B = XKF7 Square Flange

C = PN10 Flange







EXT.096.--.T.EN Issue: A

9

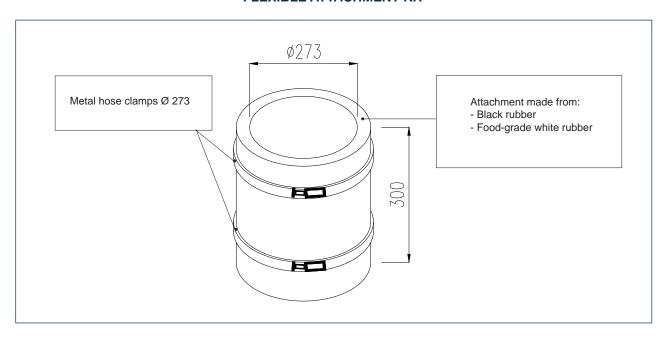
FLEXIBLE SLEEVE

+ = Without

B = Black Rubber

W = White Food Rubber

FLEXIBLE ATTACHMENT KIT





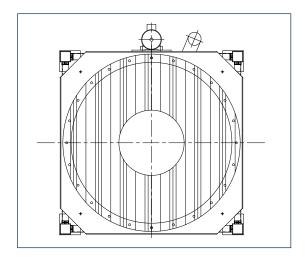
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EXT.096.--.T.EN Issue: A

10

SEAL TYPE

CODE BLACK RUBBER	CODE WHITE RUBBER	0	L
XJN 273236	XJN 273136	273	300



In field 8 of the order code it is possible to select the type of hopper gasket required, depending on the product to be handled; the following options are possible:

N: gasket made of black SBR.

B: gasket made of white NBR for food-grade use.



1

EXT.096.--.T.EN Issue: A

11

ELECTRIC VIBRATOR

Each **SBB** model is provided with an electric vibrator to activate and facilitate descent of the product; the vibrating mass on each vibrator can be adjusted in a simple manner (see use and maintenance catalogue) to increase or decrease the centrifugal force.

For the SBB._.125 model it is possible to mount a bigger electrical vibrator, as shown in the Table below.

In field 7 of the order code it is possible to select from the following options:

+ + = without vibrator

10 = electrical vibrator 0.10 kW (std for SBB 125)

18 = electrical vibrator 0.18 kW (std for SBB 150)

SBB	TYPE	VIBRAT	FOR MECH	ANICAL FEA	ATURES		EL	ECTRICAL	FEATURES	3	
		rpm	/min	CENTR FOR	IFUGAL RCE	k\	N	A max.	50 Hz	A max.	60 Hz
				k	kg						
		50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	230V	400V	267V	460V
125	MVE 100/3	3000	3600	99	107	0.1	0.11	0.33	0.19	0.32	0.18
125-150	MVE 200/3	3000	3600	198	190	0.18	0.21	0.6	0.35	0.62	0.35

TECHNICAL DATA:

- Standard power supply:
 - 230/400 V 50 Hz
 - 264/470 V 60 Hz
- Protection degree IP 65.
- Standard tropicalization.
- Continuous running.
- Operating temperature:
 - from -30° to +40°C
- Standard applicable:
 - IEC 34.1 CEI 2/3; 73/72/CEE EN 292-89/CCE EMC 89/336/CE
- Electric vibrators with voltages and frequencies different from the standard production can be supplied on request.



EXT.096.--.T.EN Issue: A

12

VIBRATOR VOLTAGES

In field 9 of the order code it is possible to select the voltage and frequency of the electric electric vibrator from the following options:

- +: without vibrator
- 1: 220-240/380 415V 50Hz (STD)
- 0: 220 277/380 480V 60Hz

Electric vibrator with special voltages and frequencies are available on request.

SAFETY CABLE

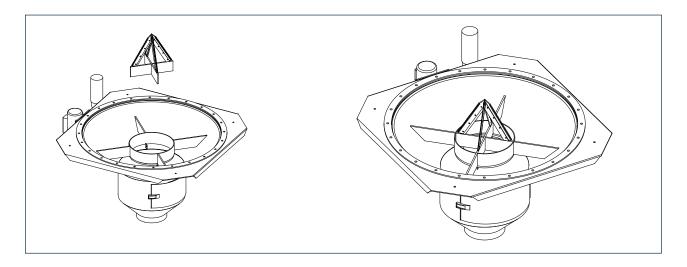
Each vibrator is provided with a safety cable, which connects the vibrator to the **FIBC** cone in order to prevent accidental falling in the event of breakage of the fixing feet.

1

EXT.096.--.T.EN Issue: A

13

CUTTING KIT



Its function is to cut valveless FIBCs which cannot be recycled.

N.B.: The blades can be removed so as to enable use also with FIBCs having valves.
Accessory applicable on all SBB models. The knife blade is always made of AISI 420 stainless steel, while the supporting frame is made of the same material as the FIBC.



EXT.096.--.T.EN Issue: A



KIT PNEUMATIC ACTIVATORS

Materials featuring poor flowability do not flow out of the **FIBC** easily. It is therefore necessary to use pneumatic activators. These devices act directly at the bottom of the **FIBC**, causing lifting and lowering of the opposite corners to stimulate the flow of material compacted at the bottom. The gradual movement of the activators makes the **FIBC** assume a "V" shape, to eliminate the deadlock points.

In field 6 of the order code, select from the following options:

+ + + = SBB without actuators

KSC = Actuators Kit without control panel

KSQ = Actuators Kit with electro-pneumatic control panel

KSP = provision for actuators kit (in the latter case, the activators are not supplied)

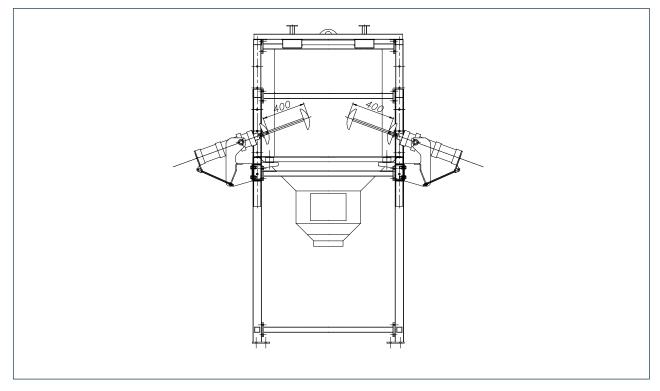
N.B.: The pneumatic activators can be installed on **SSB** ONLY if provision has been made on the latter during the order phase. The weight of the pneumatic actuators is approximately 80 kg.

ADVANTAGES:

- 1) System functional and easy to install.
- 2) Possibility of adjustment to optimize operation.

EXECUTION:

- 1) Carbon steel
- 2) 304L SS depending on the material used for constructing the SBB frame.

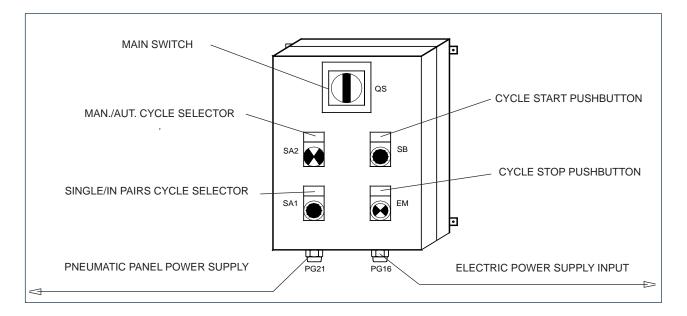


NOTE: For more information, see specific Catalogue KSC. Accessory applicable on all SBB models.

1

EXT.096.--.T.EN Issue: A

ELECTRIC CONTROL PANEL



ITEM	DESCRIPTION	COLOUR
QS	MAIN SWITCH	RED - YELLOW
SB	CYCLE START PUSHBUTTON	BLACK
EM	CYCLE STOP PUSHBUTTON	RED
SA1	SINGLE/IN PAIRS CYCLE SELECTOR	BLACK
SA2	MAN./AUT. CYCLE SELECTOR	BLACK

The control board comprises a box with front door on which the controls and operation indicators are fitted. Description of controls and indicators:

SB/EM = PUSHBUTTONS: controls with single operating mode;

SA = SELECTORS: double-function switches;

QS = SWITCHES: controls with two possible positions.

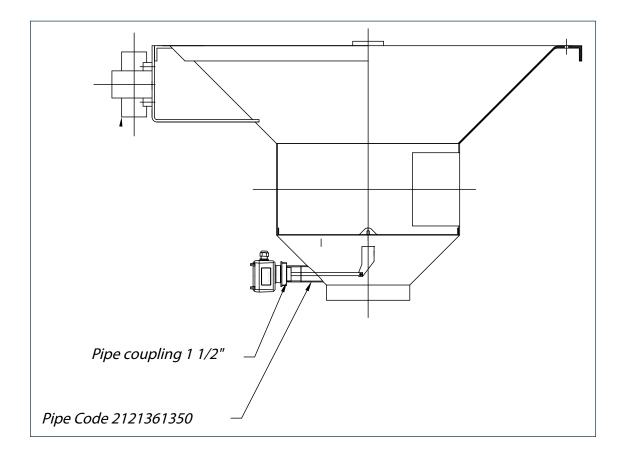


EXT.096.--.T.EN Issue: A

15

LEVEL INDICATOR

- + = Without
- **1** = Predisposition for level indicator 1 1/2"



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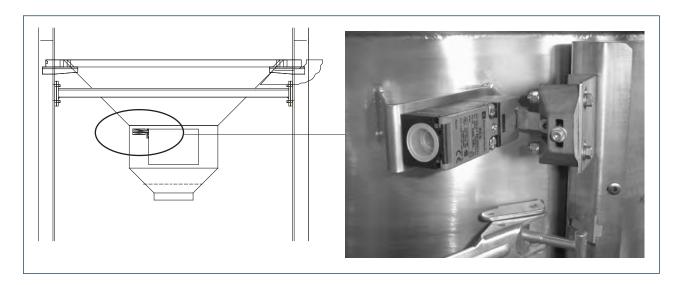
EXT.096.--.T.EN Issue: A

16

DOOR MICROSWITCH

+ = Without **M** = Included

DOOR OPEN MECHANICAL LIMIT STOP



MATERIAL	Code
Carbon steel	KFMSBB1A
304L SS	KFMSBB2A

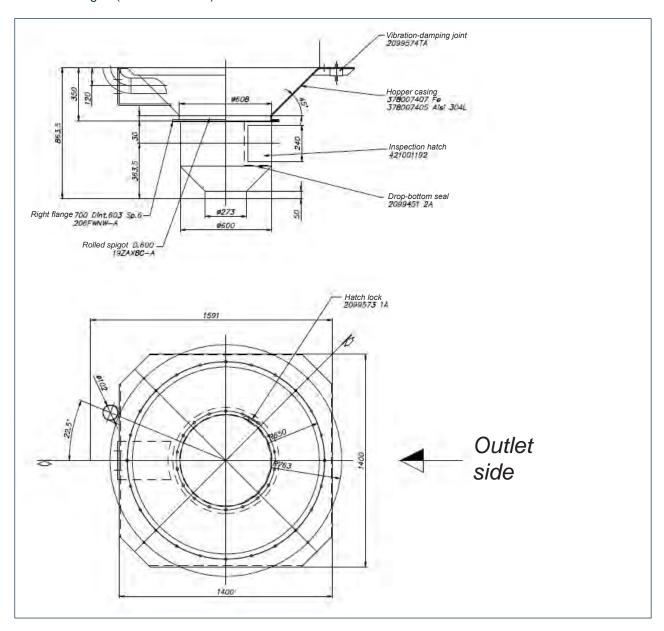
Useful for preventing activation of the vibrator if the valve is not closed correctly.

EXT.096.--.T.EN Issue: A

17

FIBC CLOSURE VALVE

- + = Without
- **P** = Prearranged (Valve Excluded)



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EXT.096.--.T.EN Issue: A

18

SUPPORT FEET

++ = Without

10 = 100 mm

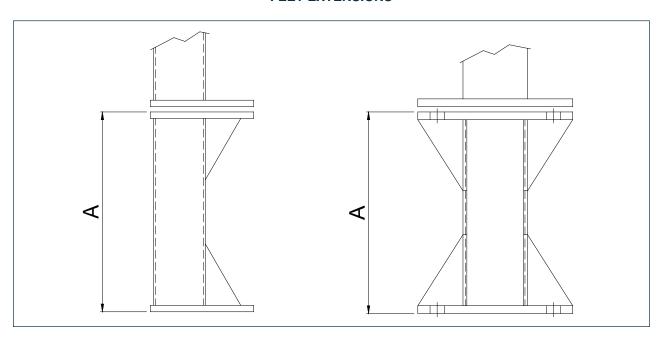
15 = 150 mm

20 = 200 mm

25 = 250 mm

30 = 300 mm

FEET EXTENSIONS



SBB125C - SBB125S	SBB150C - SBB125M - SBB150S	Α
Code	Code	mm
KF_SBB12510	KF_SBB15010	100
KF_SBB12515	KF_SBB15015	150
KF_SBB12520	KF_SBB15020	200
KF_SBB12525	KF_SBB15025	250
KF_SBB12530	KF_SBB15030	300

NOTE: The kit comprises four feet.

THE FOUNDATION PLAN REMAINS UNCHANGED

Materials available:

- Carbon steel.
- 304L SS



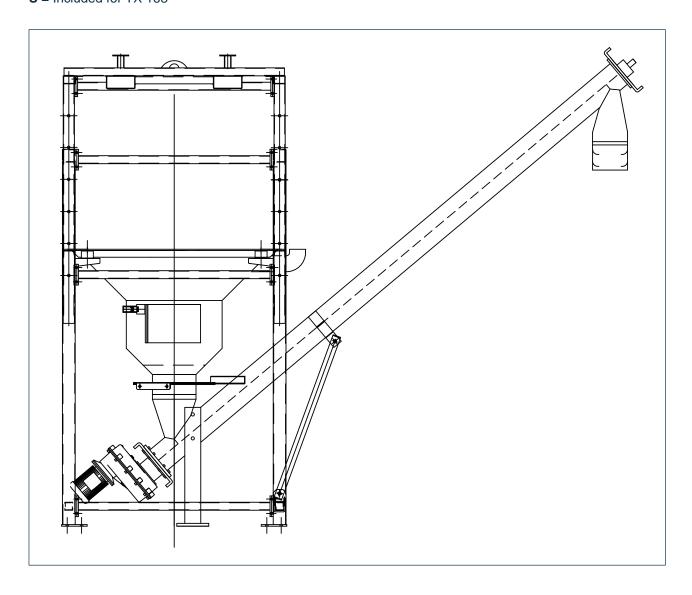
EXT.096.--.T.EN Issue: A

19

SCREW SUPPORT

+ = Without

S = Included for TX 168



1

EXT.096.--.T.EN Issue: A

20

FINISHING

Finishing SSB made from carbon steel

The term "finishing" includes the sequence and the operations necessary for machining and finishing a material.

The finishing provided for the internal and external surfaces of the feeders is classified as:

"4" (ACCURATE)

"4" FINISHING (ACCURATE)

MATERIALS	
Plates	

OPERATION	FEATURES
Plasma/Laser cut	In normal mode, with attention to linearity and precision
Welding	Continuous, on all edges, MAG type, with attention to linearity
Trimming	Removal of rags and sharp edges by grinding and sanding
Cleaning welds	Mechanical cleaning of welding slag by grinding
Sand blasting	Internal and external sand blasting to prepare the surfaces for painting;, there must be no ruffles or projections; extreme care to create continuity
Painting	See treatments and shades of internal and external surfaces page T11

Finishing SSB made from 304L SS

The term "finishing" includes the sequence and the operations necessary for machining and finishing a material.

The finishing provided for the internal and external surfaces of the feeders is classified as:

A (ACCURATE)

MATERIALS	
Plates	

OPERATION	FEATURES
Plasma/Laser cut	In normal mode, with attention to linearity and precision
Satin finishing	Carried out on the inner surface of the cone after turning, using grinder SA80
Welding	Continuous, on all edges, type: TIG with facing for BA (040-100), MIG with flux cored wire BA (125-300)
Trimming	Removal of rags and sharp edges by grinding and sanding
Cleaning welds	Carried out with micro shot blasting or satin finishing SA240, depending on the selected finish
Micro shoot blasting	Internal and external micro shot blasting, depending the finish selected, there must be no ruffles or projections; extreme care to create continuity
Satin finishing	SA240, in successive passes, passing from SA80 to SA240

1

EXT.096.--.T.EN Issue: A

21	22	23
INTERNAL TREATMENT	INTERNAL COLOUR	EXTERNAL TREATMENT

Finishing **SBB** made from carbon steel

INTERNAL AND EXTERNAL SURFACE TREATMENT

			STAN	IDARD	4	1	0	;
	Finishing			L		\top		_
4	ACCURATE							
		INTERNAL						
	Ra	Treatment						
0		none						
1	40 µm	SA 2,5 + 1 primer coat (standard)						
rnal finis	h "9" only the "N" RAL Paint colour See Table	9010 shade available						
rnal finis	Paint colour	9010 shade available						
nal finis	Paint colour See Table	9010 shade available						
nal finis	Paint colour See Table							
nal finis	Paint colour See Table	EXTERNAL						
	Paint colour See Table	EXTERNAL Treatment						
0	Paint colour See Table	EXTERNAL Treatment none						
0 1	Paint colour See Table Ra 40 µm	EXTERNAL Treatment none SA 2,5 + 1 primer coat SA 2,5 + 1 primer + 1						
0 1	Paint colour See Table Ra 40 µm	EXTERNAL Treatment none SA 2,5 + 1 primer coat SA 2,5 + 1 primer + 1						

PAINT COLOUR INSIDE AND OUTSIDE

xternal c	olour		STANDARD 4 1 0 :	3
	RAL	Paint colour		
В	RAL 1013	pearl white	'	
С	RAL 1015	light ivory		
D	RAL 5010	gentian blue		
Е	RAL 5015	sky blue		
G	RAL 7035	light grey		
Н	RAL 7032	pebble grey		
- 1	RAL 7001	silver grey *		
N	RAL 9010	pure white		
V	-	others	N.B.: Finishing electric vibrators RAL 2004	
0	- / RAL 8023	none / primer "beaver"	Ra = THICKNESS IN MICRONMETRES (tolerance for	
		1	45 (

^{* =} standard

24

15 μ m for each coat)

1

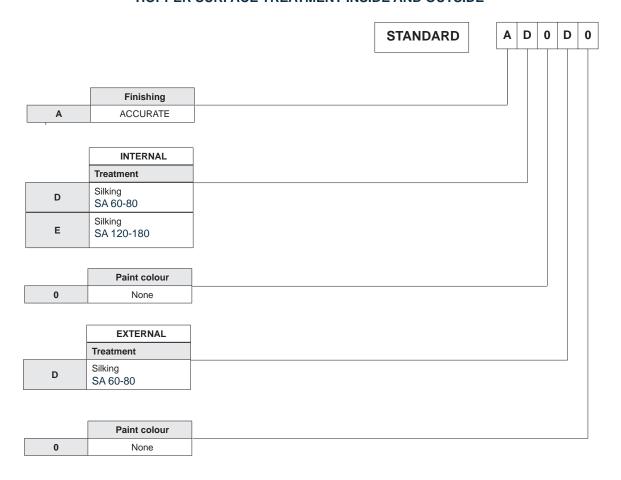
EXT.096.--.T.EN Issue: A

21		22		23	
	INTERNAL TREATMENT		INTERNAL COLOUR		EXTERNAL TREATMENT

SBB finishing 304L / 316L SS

INTERNAL AND EXTERNAL SURFACE TREATMENT

HOPPER SURFACE TREATMENT INSIDE AND OUTSIDE



VERSION WITH CONTACT PARTS IN SS

FRAME OUTSIDE SURFACE TREATMENT: POWDER (RAL 7001)

VERSION ENTIRELY IN SS

FRAME OUTSIDE SURFACE TREATMENT: Glass bead blasted

ELECTRIC VIBRATOR: RAL 2004







EXT.096.--.T.EN Issue: A

25

PACKAGING

In field 10 of the order code it is possible to select the following options:

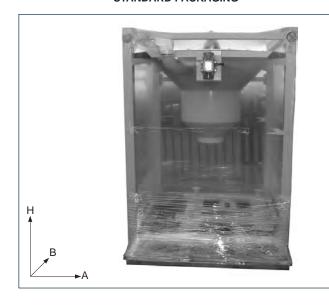
P = Pallet + shrink wrap (base)

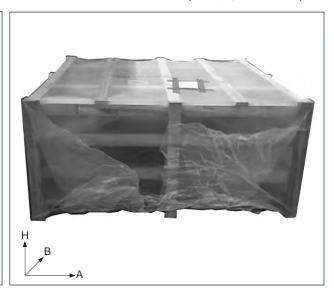
G = WOODEN CRATE / HOLZKISTE

The FIBC is basically supplied on a pallet of suitable dimensions, protected with a heat-shrink polythene cover.

STANDARD PACKAGING

WOODEN CRATE PACKAGING (FOR T,C,S VERSIONS)





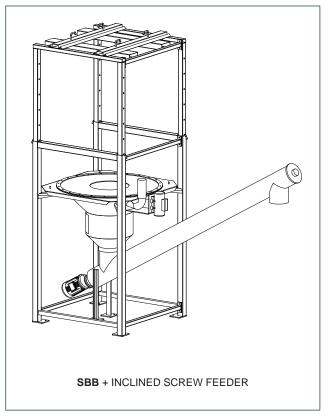
Packing code	TYPE	A	В	н	Equipment weight kg	Packing weight kg	Total weight kg
IME.SBB.125.T.P00	SBB.x.125.T	1684	1584	1102	125	53	178
IME.SBB.150.T.P00	SBB.x.150.T	1984	1834	1152	214	70	284
IME.SBB.125.C.P00	SBB.x.125.C	2034	1534	1102	321	60	381
IME.SBB.150.C.P00	SBB.x.150.C	2134	2034	1152	498	82	580
IME.SBB.125.S.P00	SBB.x.125.S	1684	2394	1102	400	84	484
IME.SBB.150.S.P00	SBB.x.150.S	2034	2584	1152	703	101	804
IME.SBB.125.M.P00	SBB.x.125.M	1684	1684	552	750	25	775
					<u> </u>		<u> </u>

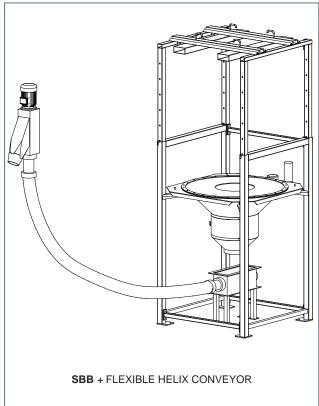
IME.SBB.125.T.G00	SBB.x.125.T	1718	1568	1102	125	89	214
IME.SBB.150.T.G00	SBB.x.150.T	2018	1868	1152	214	111	325
IME.SBB.125.C.G00	SBB.x.125.C	2068	1568 1102 321		321	98	419
IME.SBB.150.C.G00	SBB.x.150.C	2168	2068	1152	498	124	622
IME.SBB.125.S.G00	SBB.x.125.S	1718	2468	1102	400	124	524
IME.SBB.150.S.G00	SBB.x.150.S	2068	2618	1152	703	146	849
IME.SBB.125.M.G00	SBB.x.125.M	-	-	-	-	-	-

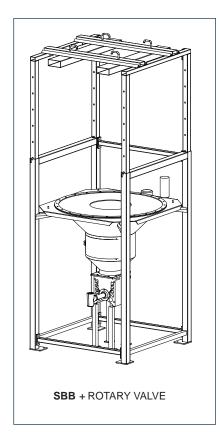


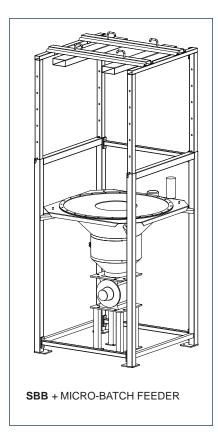


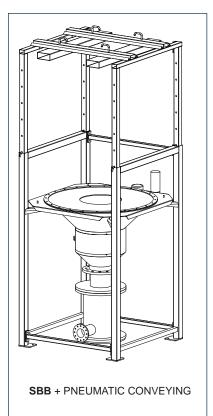
3.5 Applications









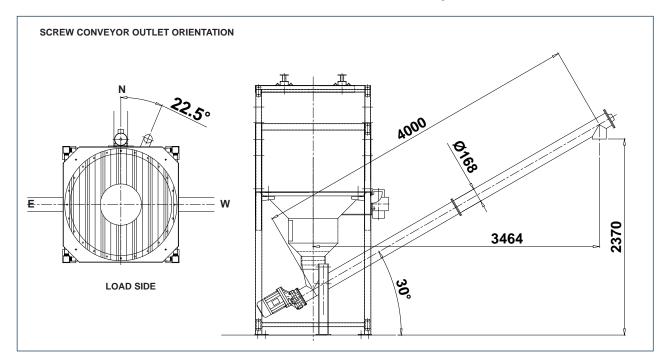


3.0 STANDARD SUPPLY AND OPTIONS

1

EXT.096.--.T.EN Issue: A

SBB with Ø 168 tubular screw conveyor



INCLINED SCREW FEEDER

For this application it is advisable to use:

Ø168 tubular screw conveyor complete with:

- tapered inlet spout Ø168/Ø273.
- drive unit at inlet end.
- supporting base XJP168031.
- Ø273 flexible rubber sleeve 300mm long complete with hose clamp.

The length of the screw conveyor must be defined on the basis of the plant requirements, with maximum inclination angle of 30° (to be specified in the order phase).

The drawing represents an example of a 4000mm long screw conveyor.

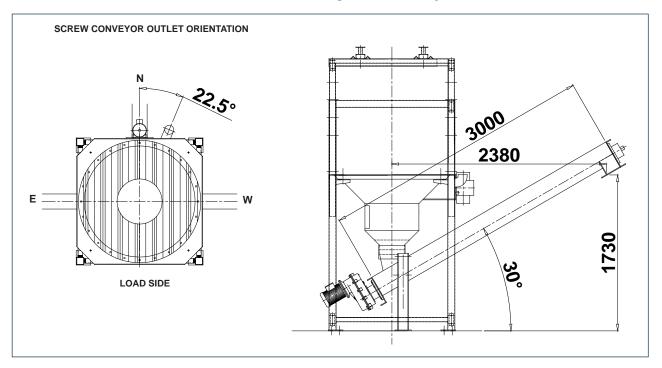
However, it is the customer's responsibility to fix the final part of the screw conveyor rigidly.

3.0 STANDARD SUPPLY AND OPTIONS

1

EXT.096.--.T.EN Issue: A

SBB with Ø 150 trough screw conveyor



INCLINED SCREW FEEDER

For this application it is advisable to use:

Ø150 trough screw conveyor complete with:

- tapered inlet spout Ø150/Ø 273.
- drive unit at inlet end.
- supporting base XJP168031.
- Ø 273 flexible rubber sleeve 300 mm long complete with hose clamps.

The length of the screw must be defined on the basis of the plant requirements, with maximum inclination angle of 30° (to be specified in the order phase).

The drawing represents an example of a 3000mm long screw conveyor, with outlet spout.

However, it is the Customer's responsibility to fix the final part of the screw conveyor rigidly.

4.0 OPERATING LIMITS



09.12

EXT.096.--.T.EN Issue: A

The **SBB**-type **FIBC**s are designed and constructed for carrying out their function in compliance with the following limits of use:

Maximum operating temperature:

+40°C in continuous mode.

Minimum operating temperature:

- 20°C.

Height of **FIBC**:

- Min. 600mm;
- Max. 1800 mm. (for models S and M)
- Any.(for models T and C)

Hopper maximum capacity:

- **SBB125**: 330 l; - **SBB150**: 510 l. l

Operation noise

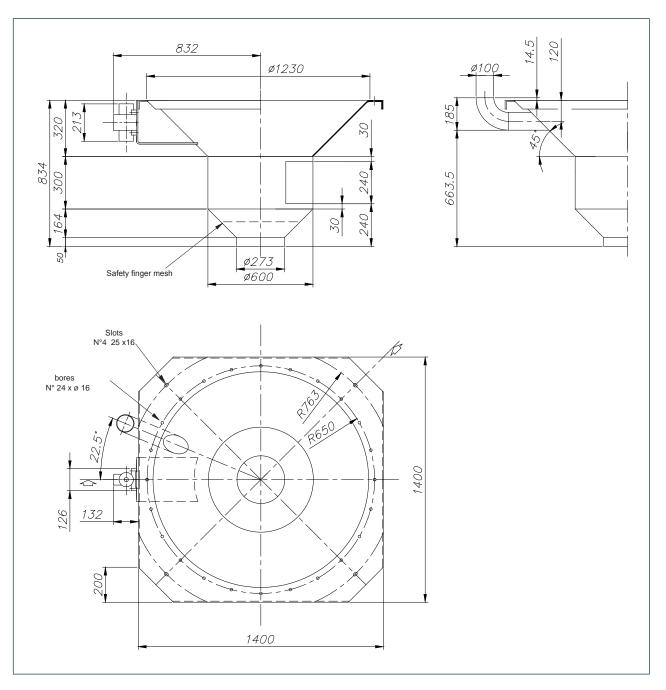
The noise levels of the **SBB** with electric vibrator supplied by **WAM**® expressed in dB(A) are obtained by readings in a free field, at maximum performance, at four cardinal points at a distance of 1.5 m from the machine.

The value measured is 75 dB(A).

The user may obtain values different from those indicated depending on the location.

It shall be the responsibility of the installer to have noise level checkings carried out on the machine applied to a silo filled with material (in operating conditions).

SBB._.125.T

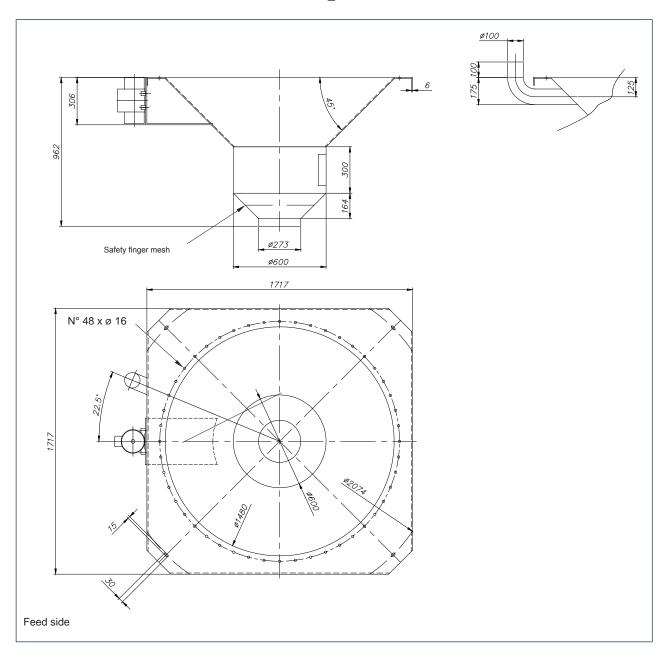


SBB

5.0 DIMENSIONS AND WEIGHTS

09.12

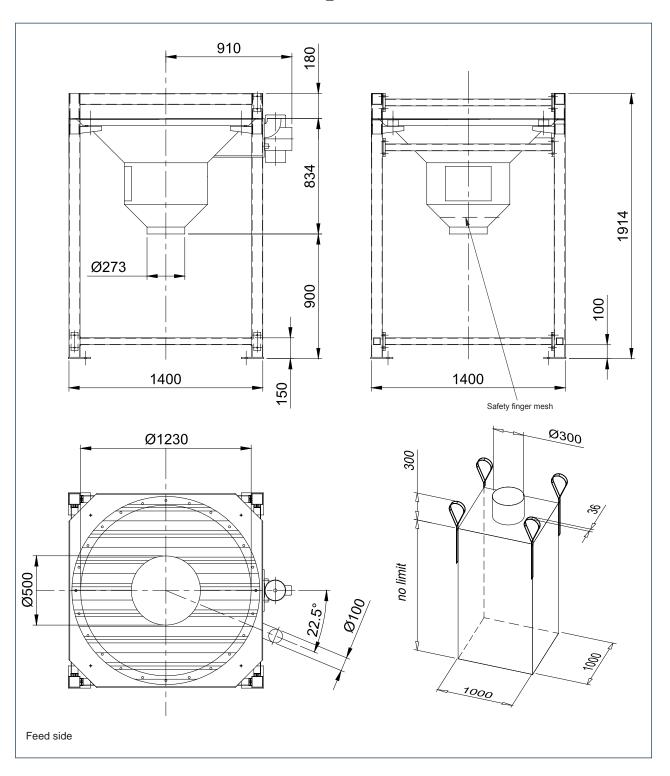
SBB._.150.T



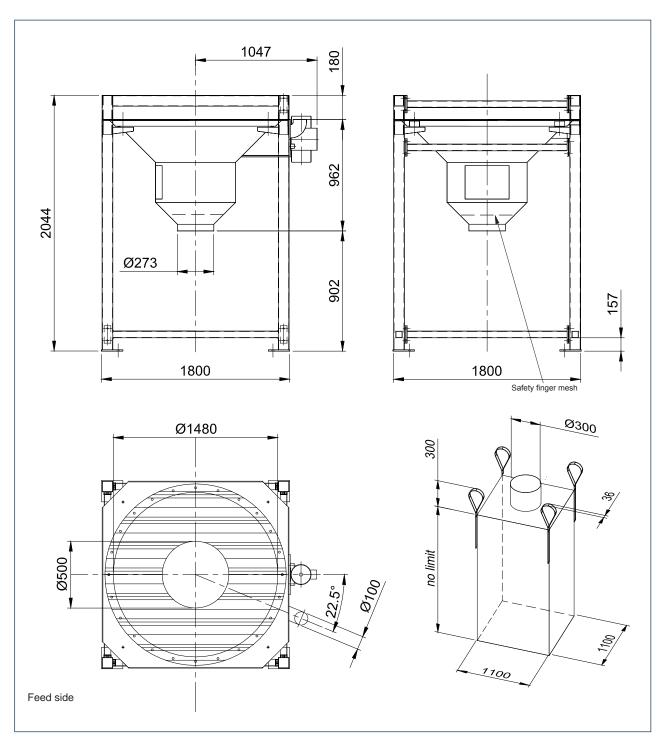




SBB._.125.C

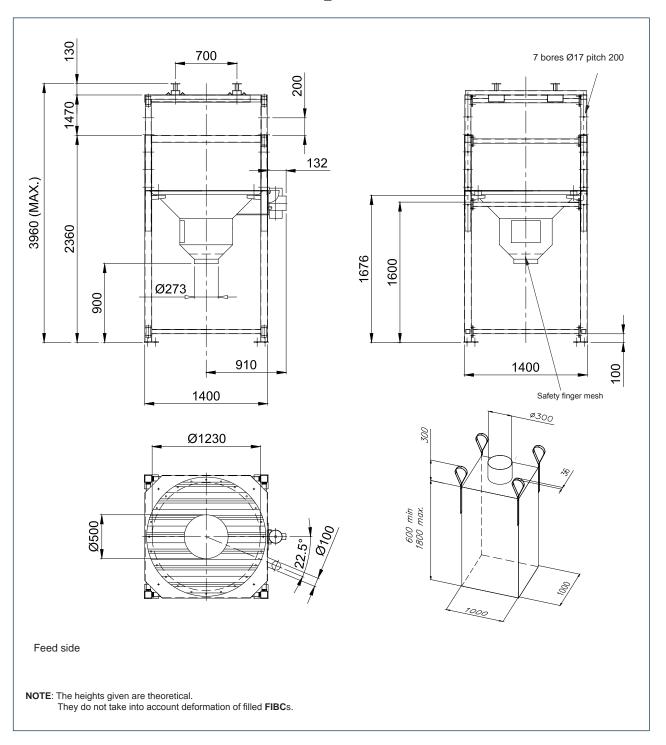


SBB._.150.C



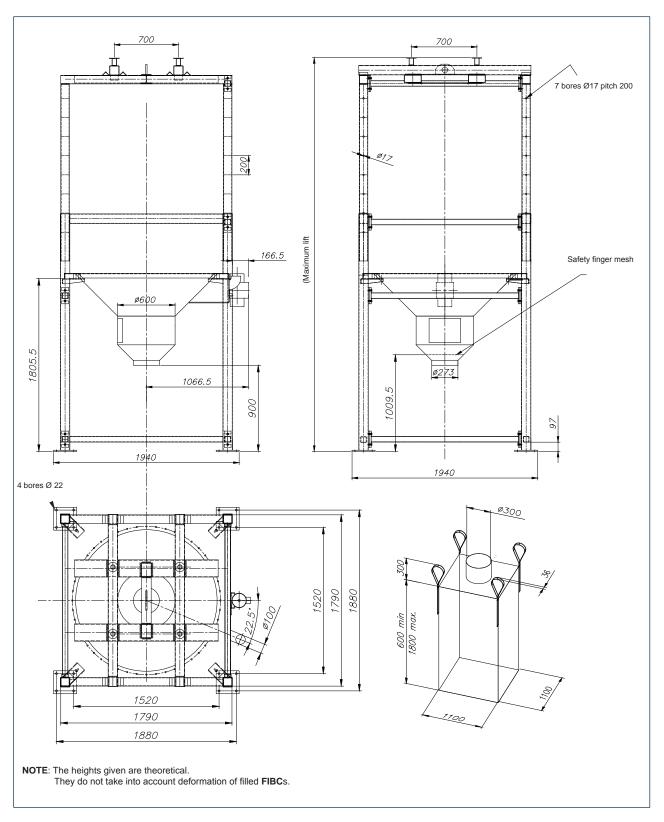
EXT.096.--.T.EN Issue: A

SBB._.125.S



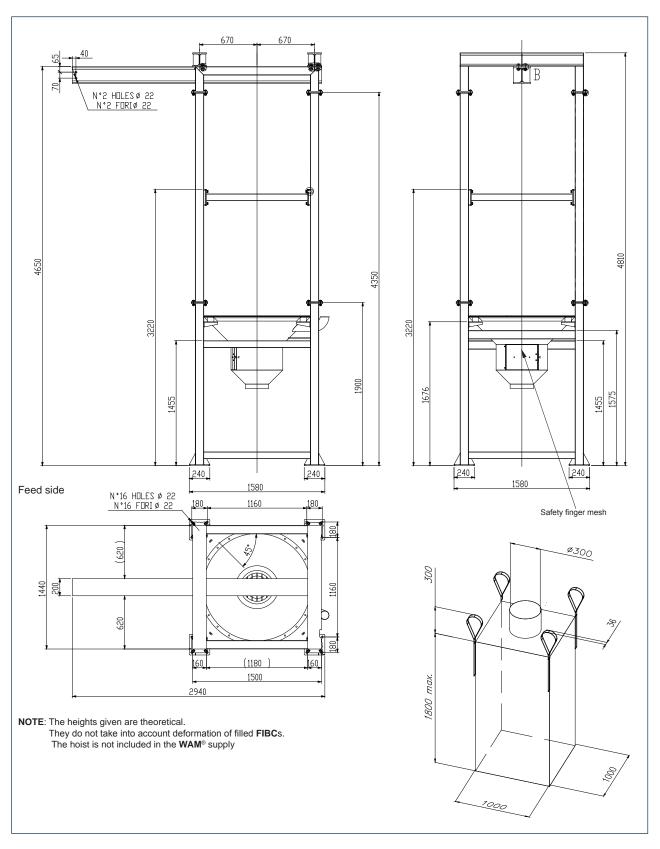
EXT.096.--.T.EN Issue: A

SBB._.150.S



EXT.096.--.T.EN Issue: A

SBB._.125.M

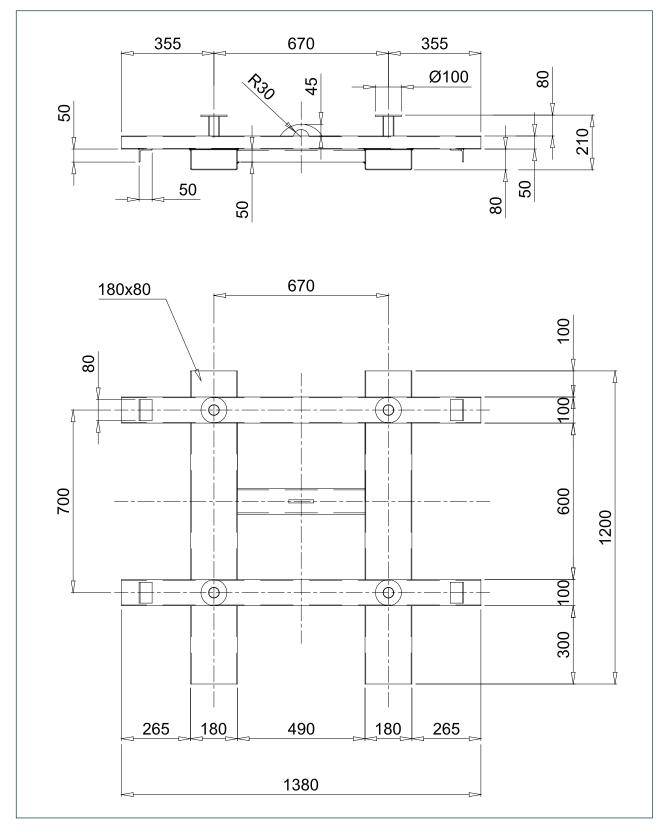




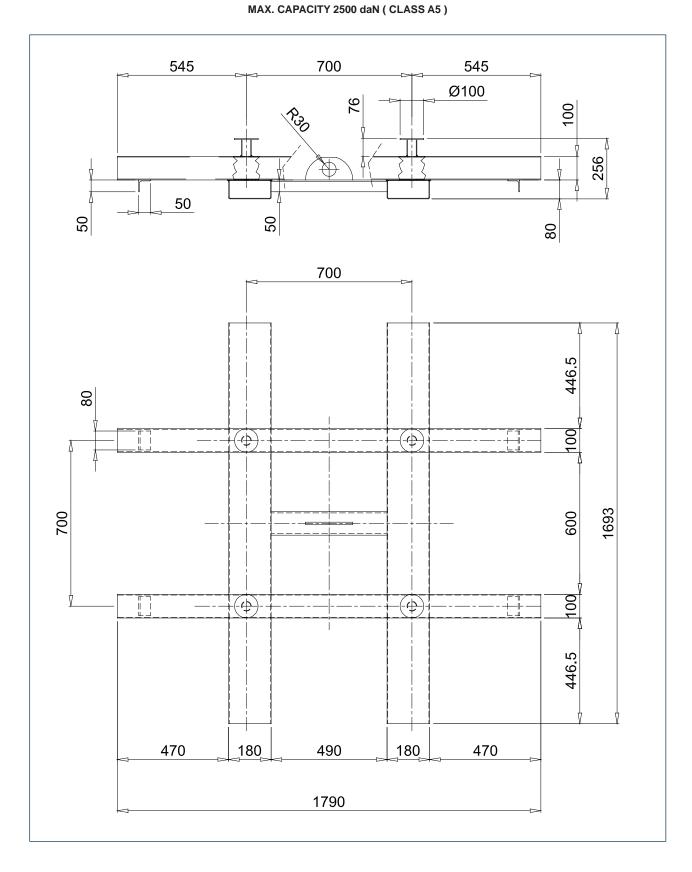


SBB._.125.S

MAX. CAPACITY 1600 daN (CLASS A5)









SBB 09.12

5.0 DIMENSIONS AND WEIGHTS

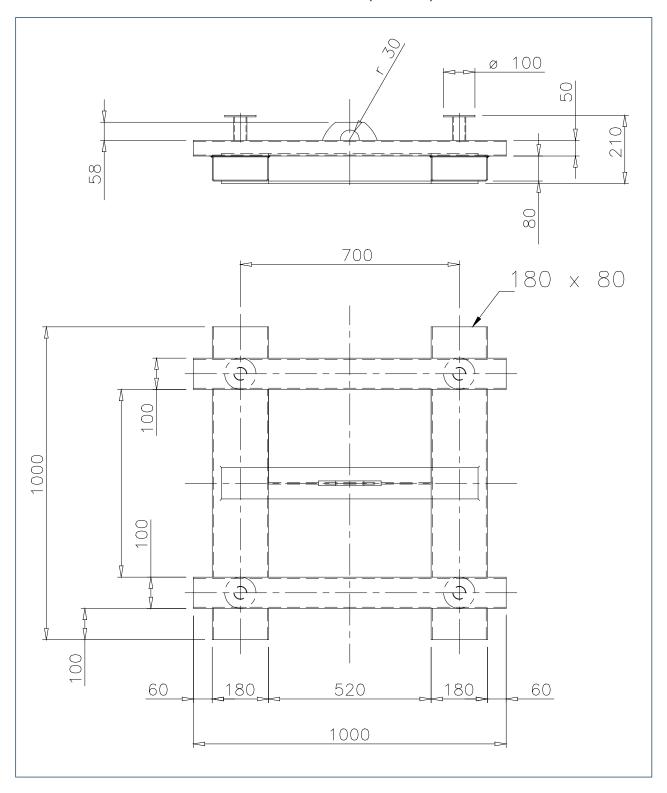
EXT.096.--.T.EN Issue: A

SBB._.125.C

SBB._.125.M

SBB._.150.C

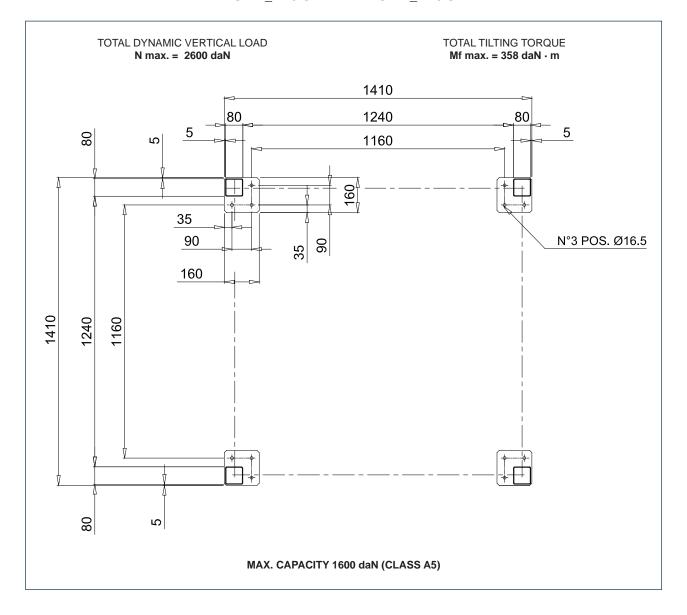
MAX. CAPACITY 2000 daN (CLASS A5)



1 EXT.096.--.T.EN Issue: A

SBB._.125.C

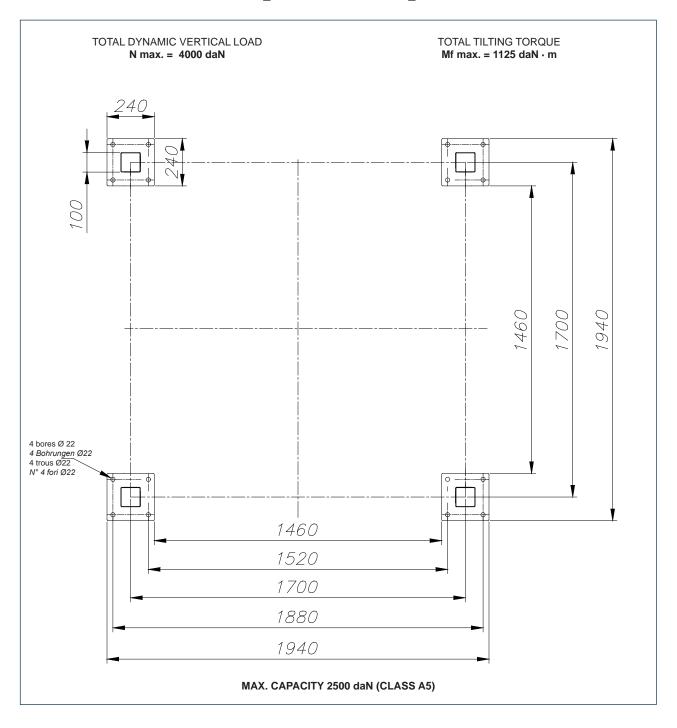
SBB._.125.S



EXT.096.--.T.EN Issue: A

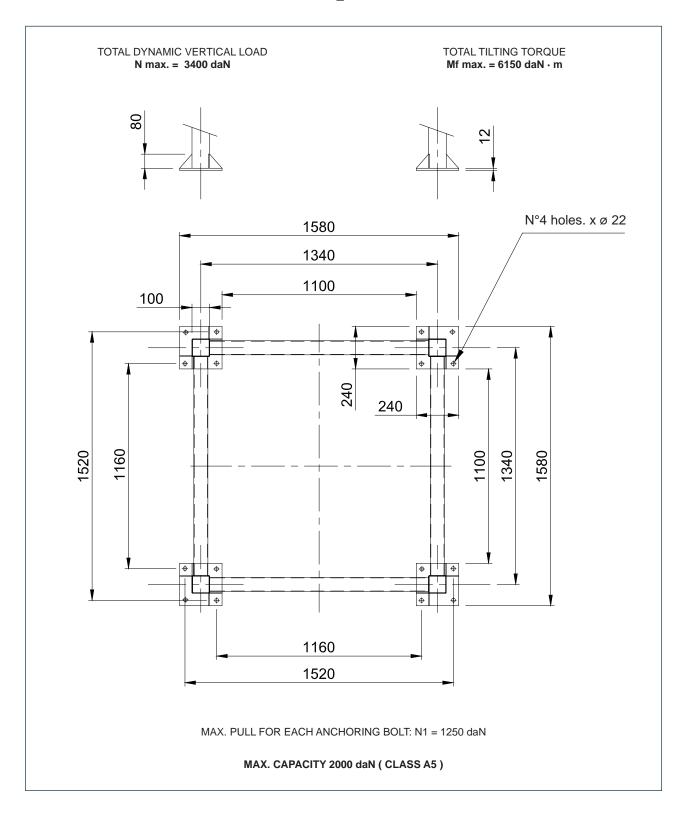


SBB._.150.S





SBB._.125.M





6.0 INFORMATION REQUIRED FOR SIZING THE EQUIPMENT

1

EXT.096.--.T.EN Issue: A

Refer to the chart below for all information necessary.

FEATURES OF PRODUCT TO BE FEEDED

Name of products.								
Specific weight	ecific weight kg/dm³ or T/m			n³ WAM® Code				
PARTICLE SIZE								
micron	0.1 - 0.5	0.5 - 1	1 - 5	5 - 10	10 - 50	50 - 100	> 100	
%								
Otherwise provide particle size graph								
			Flowa	bility				
highly flowable			flowable	slightly flowa	ible	Not flowable		
			Abras	ivity				
slightly abrasive		m	moderat. abrasive		orasive			
			Features of	products				
generates static el. (G)			explosive (N)			highly corrosive (T)		
alredy decomposes during storage (e (H)	hygroscopic (U)			has oils (W)		
inflammable (J)			viscous (O)			compacted under pressure (X)		
becomes plastic and soft (K)			contaminant (P)			very light and soft (Y)	
very dusty (L)			degradable (Q) high temperatures (Z		(Z)			
becomes gas or fluid (M)			harmful on falling, produces gas, fumes (R)					
moderately corrosive (S)			becomes granular, twists, agglomerates (V)					





6.0 INFORMATION REQUIRED FOR SIZING THE EQUIPMENT

SBB



SSB SIZING							
Flow rate requiredm ³ /h							
Construction: Parts in contact: 304L SS 316L SS							
Completely made from: 304L SS 316L SS							
FINISH							
Fe 4.10.3I (RAL 7001) (std)							
304L / 316L SS AG0.G0 (std)							
304L / 316L SS AQ0.G0 (std) (on request)							
Internal finishing:RAL:RAL:							
External finishing:RAL:							
Electric vibrator finishing: WAM® Std: RAL 2004							
ELECTRICAL FEATURES							
Electric vibrator: Supply voltage:V Phases: Frequency:Hz							
ACCESSORIES							
Flexible attachment kit:							
Round flange XKF 34							
Square flange XKF 74:							
Feet extensions							
Reduction section for outlet spout							
Door open mechanical limit stop:							

