



BOONS

food & industrial supplies



SMU

SMU-K-20/1-GR | SMU-20/1-GR

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1. General

COPYRIGHT BOONS FIS

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For information concerning settings, maintenance work or repairs not referred to in this publication you are requested to contact your supplier. This publication has been compiled with the greatest possible care. BOONS FIS accepts no responsibility for any errors in this publication or for the consequences thereof.

Last modified version: 2020

GENERAL

In this manual and on our machines some zones are pointed out with attention symbols. These attention symbols refer to a possible danger or point for attention. Ignoring these instruction can result in physical injury, damage to the machine or consequential damage.



Read the instructions for use

Before you bring the unit into operation you must carefully read this operating manual.



Electrical voltage

These instructions explain how to correctly use the electrical parts of the machine. The zones on the machine marked with this symbol contain electrical parts and may never be opened or changed by unauthorised persons.

Not (or not exactly) complying with the instructions can result in serious personal injury, fatal accidents, serious machine damage or consequential damage.

You are requested to keep this manual in a place where it is always available. It must always be given to the person responsible for the product. If this manual is lost, you can always request a new one from BOONS FIS. Also contact BOONS FIS if there are any doubts concerning the content of this manual.

LIABILITY

As the manufacturer BOONS FIS cannot be held liable for personal injuries, damage to property of third parties, consequential losses, production loss, loss of capital, loss of goods and suchlike that originate due to inadequate or late delivery of a sold product, whatever the cause may be.

Each user must act and use the unit in a responsible manner. BOONS FIS cannot be held responsible for damage as a result of incorrect use of the unit. It is therefore important that this manual is available to the persons involved at all times.

Using the system in a correct and responsible manner entails: the instructions, requirements and recommen-

datations concerning the system being complied with; the specified inspection and maintenance intervals being respected; the system being properly maintained, and the specified ambient conditions and conditions for use being respected. Correct use also means compliance with all information specified in this manual.

WARRANTY

The warranty covers general parts that can be shown to have become defective as a result of material faults, manufacturing faults and/or inadequate performance, as well as electrical parts covered by this provision. The warranty period comes into effect on the invoice date and applies for 12 months.

To claim under the warranty, you must immediately approach your supplier. A warranty claim submitted too late will no longer be processed.

The warranty covers the replacement or repair of the defective parts. Transport costs and work hours are paid by the customer. Replaced defective parts become the property of BOONS FIS.

Indirectly originating damage, normal wear, damage caused by negligence or incompetent use, damage due to frost and damage that is reported too late is not covered by the warranty. Damage caused during loading, unloading or transport and costs of repairs incurred by third parties are also not covered by the warranty.

The warranty also ceases to be applicable after changes/repairs/bringing into use by an installer not approved by BOONS FIS. Please contact the company BOONS FIS for confirmation of whether your supplier is approved if the suppliers is not BOONS FIS itself.

SAFETY

General

The BOONS FIS mobile unit is an installation that produces a water jet under pressure. The design of the machine suffices with regard to the generally accepted technical requirements and provisions concerning the working environment and accident prevention. Despite this, risks can occur during use. The system must therefore be in excellent technical condition before it is used. Faults and irregularities that could affect safety must particularly be immediately rectified.

The unit may only be used by persons who have been instructed in its operation and who have been explicitly tasked with its operation. Full knowledge of this manual is therefore required. The machine is unsuitable for use by children. If the machine is used by other persons, the owner must inform the user of the safety instructions. Besides the instructions for use and the applicable, compulsory requirements relating to accident prevention in the country in which the machine is used, the approved technical regulations for safe and judicious work must also be complied with. The unit may only be used for the purpose it was designed for. No method of working that can endanger safety may be used.

It is recommended to only use parts approved by the manufacturer to guarantee the safety of the machine.

Personal safety

For your personal safety it is important to use the prescribed PPE safety equipment:



Wear face protection



Safety gloves are compulsory



Safety shoes are compulsory



Protective clothing is compulsory



Wear ear protection

If the skin is penetrated by the water jet under pressure one must immediately see a doctor. Be sure to mention the type of product that was being used. One must also avoid using a poor posture.

The unit's noise level is lower than 70 dB(A). During cleaning the user may however be exposed to the noise of the water jet on surfaces to be cleaned such as the ground, walls and appliances. When cleaning stainless steel surfaces with a nozzle at 25 bar a noise level of 88 dB(A) may be reached. The noise level therefore depends on different factors such as: size and layout of the space, the machines to be cleaned, the type of nozzle used, etc. In general the noise level increases with a larger quantity of water and smaller nozzle sizes.

2. Use

To ensure safety during installation and later use it is important that the instructions concerning installation, use, maintenance and disposal are accurately followed.

GENERAL

The electrical wiring must be checked for damage before use. Before powering the appliance check if the electrical specifications on the CE name plate correspond to the values on the power supply network (e.g. electrical voltage, etc.).

Standard production variations of nozzles, pressure gauges and pumps can in certain cases cause small variations in the specified values. This however has no impact on cleaning and BOONS FIS cannot be held responsible for this.

Storage

The unit may not be exposed to frost unless all the water has been drained away (frost protection). Even brief periods of exposure to frost can damage the unit.

Store the appliance in a frost-free space.

Connection and bringing into use



	Article code	Description	SMU	SMU-K
1	1.713.052 MET.0402312	Signal push-button for air Compressed air adapter	0 1	1 0
2	L22-L-R-24-P62	Signal light	1	1
3	1.713.052	Signal push-button for pump on/off	1	1
4	4.617.467	Selector switch	1	1
5	4.647.034	Adapter 3/4" bin for water supply	1	1
6	4.647.003	Adapter V-part 1/2" out for water drainage	1	1
7	LAP-53112020	M20 SS nut for connection of electric cable 5M - 400V	1	1
8	4.206.200	Chemicals line foam 0,95m - transparent	1	1
9	4.206.210	Chemicals line disinfection 1,10m - yellow	1	1

To bring the unit into use, put the jerry cans in the jerry can holder. Then place the chemicals hose (8 and 9) in the appropriate jerry cans. The yellow chemicals hose (9) is for disinfection, the transparent chemicals hose (8) is for foam.

Connect the electrical cable with plug (7) to a suitable 400V plug socket. Then connect the water supply (5) and the high-pressure hose (6). Open the water supply and open the ball valve.

With an SMU without compressor connect the compressed air supply (1) and open the valve. With an SMU-K (with compressor) you switch the compressor on by pressing the push-button (1).

Then switch the pump on with the push-button (3).

You can now start using the appliance. Click the appropriate nozzle (yellow, white or blue) on the gun and select the required function using the selector switch (4). Open the gun to start cleaning.

Before you start working with the unit, or following repair activities, the appliance must be thoroughly flushed to remove all impurities or foreign objects.

USE

The unit is specifically designed for rinsing with water and the use of foam or detergent under the specified conditions for use. Any other use of the unit is not compliant with proper use and does not comply with the applicable regulations. This can result in dangerous situations so must be avoided at all times.

- The water jet can be dangerous if misused. Never aim the jet at yourself, persons, animals, the appliance itself or live electric installations.
- Hoses, guns, lances and connecting parts are important for safe and proper operation of the unit. So always use original components from BOONS FIS. The maximum permitted operating pressure and the temperature are printed on the components. Do not exceed these values.
- Never spray electrical parts with water: danger to persons and of short circuiting.
- Always wear appropriate footwear when working with the water jet.
- Wear safety clothing, safety glasses and ear protection (> 80 dB).
- When cleaning, keep a sufficient distance between the nozzle and the surface to be cleaned to avoid damage to the surface.
- During operation all guards and doors on the machine must be kept closed.
- Clearly mark off the place of spraying and cordon off a distance of at least 6 metres around the place of spraying.
- Remove all items lying around in the place of spraying.
- Never spray from an unstable standing position (on a ladder, scaffold, steps, etc.).
- Respect the rules for ergonomics during spraying.

Retraction forces are caused when the unit is being used.

Switch the unit off when the spray lance is replaced or close the ball valve (if present). Make sure that the protective cover is around the nozzle. Firmly turn or click the lance coupling on the gun. The gun's trigger may not be clamped tight during use. The correct rinsing lance/nozzle must always be used for each specific cleaning program.

Standard version:

- Blue = rinsing lance - nozzle
- White = foaming lance - nozzle
- Yellow = disinfection lance - nozzle

Chemical cleaning products (if present)

- Always first read the instructions on the product packaging.
- Always check the content of the chemicals tank to avoid spraying with a wrong mixture.
- Closely follow the product instructions.
- Never use flammable products for cleaning.
- Ensure separate collection and/or cleaning of drainage water.
- Make sure you use the necessary personal protective equipment.
- Remove the filler cap and hang the suction hose in the tank.
Transparent hose = hose for foam
Yellow hose = hose for disinfection
- Always make sure of good ventilation.
- Always use the most suitable medium and take advice from experts.

Vibrations

Vibration on the gun and the lance is very limited when the correct spraying equipment is used. But always take personal protection measures when using the unit such as wearing gloves.

MAINTENANCE

General

All maintenance work must take place when the unit has been switched off and cooled and with hoses relieved of all pressure. Only specially trained personnel may work on electrical parts. Immediately after the work, all safety components and protective parts must be replaced before the unit is used again.

One requires a reliable and technically sound appliance to guarantee a properly working unit. Thorough maintenance at regular intervals (at least once a year) is required to maintain proper operation. This maintenance can be carried out by experienced BOONS technicians by making an appointment or under a maintenance contract, or by a dealer/partner appointed by BOONS FIS.

The user may only carry out the activities described in this manual.

Anti-legionella bacteria measure

If the unit has been idle for some time, the water in the unit must be discharged into a drain. Stagnant water at temperatures between 20 °C - 55 °C can cause Legionella bacteria. It is therefore advised to act upon the following four recommendations:

- Regularly clean the piping and components.



- Flush periodically using the specified products.
- Remove any sediment.
- Ask about a maintenance contract for cleaning Legionella's disease.

Maintenance schedule

After each time of use the electric cables, spray head, cleaning hoses, couplings and valves must be checked. Depending on the quality of the mains water, it can be necessary to regularly clean the water filter or replace it to protect the pump (if present).

Water non-return valves are critical parts subject to wear and should be replaced every year.

Limescale compromises operation of the pump, and its removal according to the instructions of the supplier of the chemical substances can be required on a regular basis.

Maintenance by BOONS technicians

For further maintenance we recommend you contact BOONS FIS or its approved dealer about a maintenance contract. This is not only to continue getting the most of the unit, it is also to be able to make a claim under the guarantee conditions. Maintenance applies for normal operating conditions. In heavy-duty conditions you can mention this so it can be taken into account.

Description of daily checks

Frame

Check the frame as a whole for loose bolts, cracks and/or fractures in the welded joints. Keep the unit as clean as possible to prevent the effects of dirt, water, oil and spilt fuel.

Spraying equipment

Check lances, hoses and guns for leaks, visible damage and hairline cracks. If there is damage or leaks this must be immediately replaced. Check the spray pattern of the water jet. If it is too wide have the nozzle replaced. Check the protective cover for the nozzle for damage and replace if required. Check the thread or the click system of the couplings for visible damage. This must also be immediately replaced if there is damage.

Electrical part

Check visible electrical wiring and components (such as switches) for visible damage. If damaged, this must be replaced by BOONS FIS or its approved dealer.

Pressure expansion tanks

The pressure expansion tank is positioned on the pump. The damper ensures that the vibrations from the water are countered. Check the operating pressure on the pressure expansion tank. The operating pressure must be 60%. Consult a BOONS FIS technician with poor operation of the pressure expansion tanks and for further maintenance.

PUTTING PUMP UNIT OUT OF OPERATION

Switch the pump's push-button off when you end the work and relieve the pressure in the hoses. You do this by pinching the spray lance after closing the ball valves (in the water supply and drainage lines).

Disconnect the gun lance and store it away.

If the unit is not to be used for a long period check:

- That the power cable is disconnected.
- That the liquids have been removed from the tanks. The suction hoses for chemicals must be rinsed with water.
- That the parts are protected against the accumulation of dust and against frost.
- That all hoses, cables, etc. have been safely stored.

DISPOSAL

Keep the following instructions in mind: the unit must be disposed of according to its nature and the applicable requirements (for example: electrical scrap, synthetic materials, stainless steel, bronze, etc.). The unit must also be disposed of in way that is as environmentally friendly as possible.

There are three options here:

- Exchange for a new machine.
- Taking to a waste processing company.
- Outside the EU you should contact your local authority for information on appropriate disposal.

Would you like more information about the disposal of your old appliance?

Contact your local authority, the waste collection service or the dealer/company where you bought the product.

ERRORS

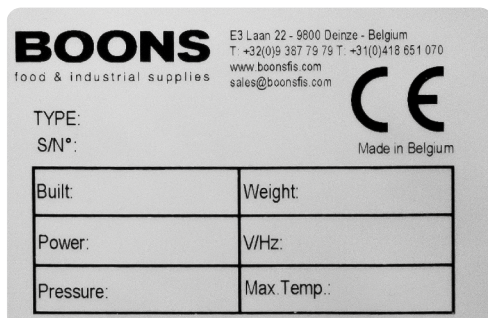
If there is an error one can consult the table below. If you cannot find a solution using the table, we advise you to contact a BOONS technician or an approved BOONS representative.

Error	Cause	Solution
Low water supply pressure	Water supply shut off	Open the water supply
	Water inlet filter blocked	Clean the water inlet filter (if present)
No or insufficient quantity of water at the nozzle	Selector switch not in rinse position	Turn the selector switch to the required position
	Valve at the end of the hose not open	Open the valve on the hose
The unit does not draw detergent	The selector switch is not in the correct position	Turn the selector switch to the required position
	Suction filter or chemical restrictor is blocked by chemical residue	Clean the suction filter or chemical restrictor
	The suction filter is positioned above liquid level in the chemical container	Position the suction filter below liquid level
Poor foam quality	Air valve is closed or the compressor has not been started	Open the air valve or start the compressor
	Insufficient air pressure supply	Increase the air pressure supply
	The chemical product is not a foam product	Change the product to a foaming chemical product
	The chemical restrictor is not suitable for the chemicals selected	Adapt the chemical restrictor to obtain correct dosing
	The suction filter, metering valve or non-return valve is blocked by chemical residue	Clean the suction filter, metering valve or non-return valve
	Insufficient water supply to the unit	Make sure that the water supply meets the technical requirements
	The compressor inlet filters are blocked	Clean or replace the compressor inlet filters
	No original foam nozzle assembled	Replace with an original foam nozzle

3. Technical details

TYPE PLATE

A CE type plate is fixed to each unit mentioning the serial number and technical details.



VERSIONS

Model	Version	Article number
SMU-K-20/1-GR	FF-R (Foam ^{Air} - Foam ^{Air} - Rinse)	4.500.176
	FD-R (Foam ^{Air} - Disinfection ^{Air} - Rinse)	4.500.178
	FD-R (Foam ^{Air} - Disinfection - Rinse)	4.500.180
SMU-20/1-GR	FF-R (Foam ^{Air} - Foam ^{Air} - Rinse)	4.500.177
	FD-R (Foam ^{Air} - Disinfection ^{Air} - Rinse)	4.500.179
	FD-R (Foam ^{Air} - Disinfection - Rinse)	4.500.181

TABLE OF TECHNICAL DETAILS

Model	SMU-K-20/1-GR	SMU-20/1-GR
WATER CONNECTION		
Inlet - outlet	3/4" - 1/2"	
Pre-pressure	0,5 - 10 bar	
Min. flow rate	35 L/M	
Max. operating pressure (incl. pre-pressure 4 bar)	20 bar	
Max. supply temperature	70°C	
Max. HP hose length	25M	
ELECTRICITY CONNECTION		
Motor power	3,5 kW	2,2 kW
Cable section	4G1.5	
Amperage	3x 16A	
Voltage x Hz	3x 400V 50/60Hz + PE	
Variable-frequency drive	Built into the motor	
DIMENSIONS		
Weight	126 Kg	108 Kg
Dimensions WxHxD mm	708 x 1051 x 1046 mm	
Compressor	Oil-free	No compressor
Max. pressure compressor	10 bar	
Flow rate compressor	150 L/M	
Article number	4.500.176	4.500.177
	4.500.178	4.500.179
	4.500.180	4.500.181

Grundfos pomp CRIE 1-9

Description	Value
Product name:	CRIE1-9 J-P-I-E-HQQE
Product No:	OBJEK
EAN Number:	5712605303763

Technical:

Speed for pump data:	5450
Actual calculated flow: [m ³ /h]	1,80 m3/h
Resulting head of the pump:	185,30 m
Impellers:	9
Stages:	9
Shaft seal:	HQQE
Approvals on nameplate:	CE,TR
ATEX approval:	None
Pump version:	J Pump w/different max. speed
Code for model:	A
Pump conf. file	99135880

Materials:

Impeller:	Stainless steel
	DIN W.-NR. 1.4301
	AISI 304
Pump housing:	Stainless steel
	DIN W.-NR. 1.4408
	ASTM A 351 CF 8M AISI 316L
Pumphead/ Motorstool:	Cast Iron
Material, base plate:	Cast Iron
Matr., intermediate bearing:	SIC
Code for rubber:	E - EPDM
Code for materials	I

Installation:

Maximum ambient temperature:	50 °C
Max pressure at stated temp:	25 Bar / -20 °C
	25 Bar / 120 °C
Pipe connection size	PJE 1 1/4
Connect code:	P PJE coupling
Flange size for motor:	FT115
Nominal NPSH	1,2 m

Liquid:

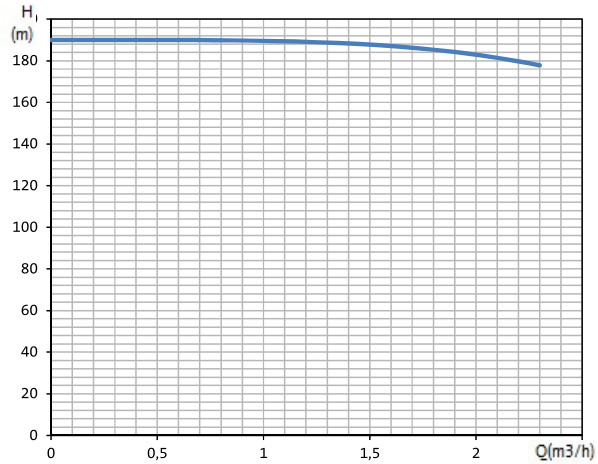
Liquid temperature range:	-20 to 120 °C
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Motor data:

Make:	GRUNDFOS
Number of poles:	2
Rated power – P2:	2,2 kW
Mains frequency:	60
Rated voltage:	3x380-500 V
Wiring connection:	
IE efficiency:	#N/A
Efficiency class:	
IP-class:	55 Dust/Jetting
Motor No:	98190221
Motor Ex-description:	Without (standard)
Mounting designation:	IM B14/V18
Insulation class:	155°C max hotspot winding temp
Direction of rotation:	CCW

Test:

Will be tested according to:	ISO9906:2012 3B
Test - Pressure:	37,5 Bar



Dimension:

Pump height (B1)	387 mm
Motor height (B2)	274 mm
Total height (B1 + B2)	661 mm
Port-to-port length	210 mm
Dist. ground/pipe costum	50 mm

Specialities:

Customer specific duty point	No
Surface, int. pump	No
Surface, ext. pump	No
Pump with bearing flange	No
Pump with pulley head	No
Pump with low NPSH	No
Pump with Aircooled top	No
Pump with auto air vent	No
Pump with double shaft seal	No
Pump w/certificate or report	No
Pump in horizontal version	No
Pump with MAGdrive	No
Pump with Endsuction	No
Pump cleaned and dried	No
Pump for cold operation	No
Pump w/changed term. box pos.	Yes
Pump w/changed air vent screw	#N/A

Others:

Net weight:	29,44 kg
Gross weight:	32,34 kg
Shipping volume [m ³]:	
Minimum Efficiency Index, MEI ≥:	0.70

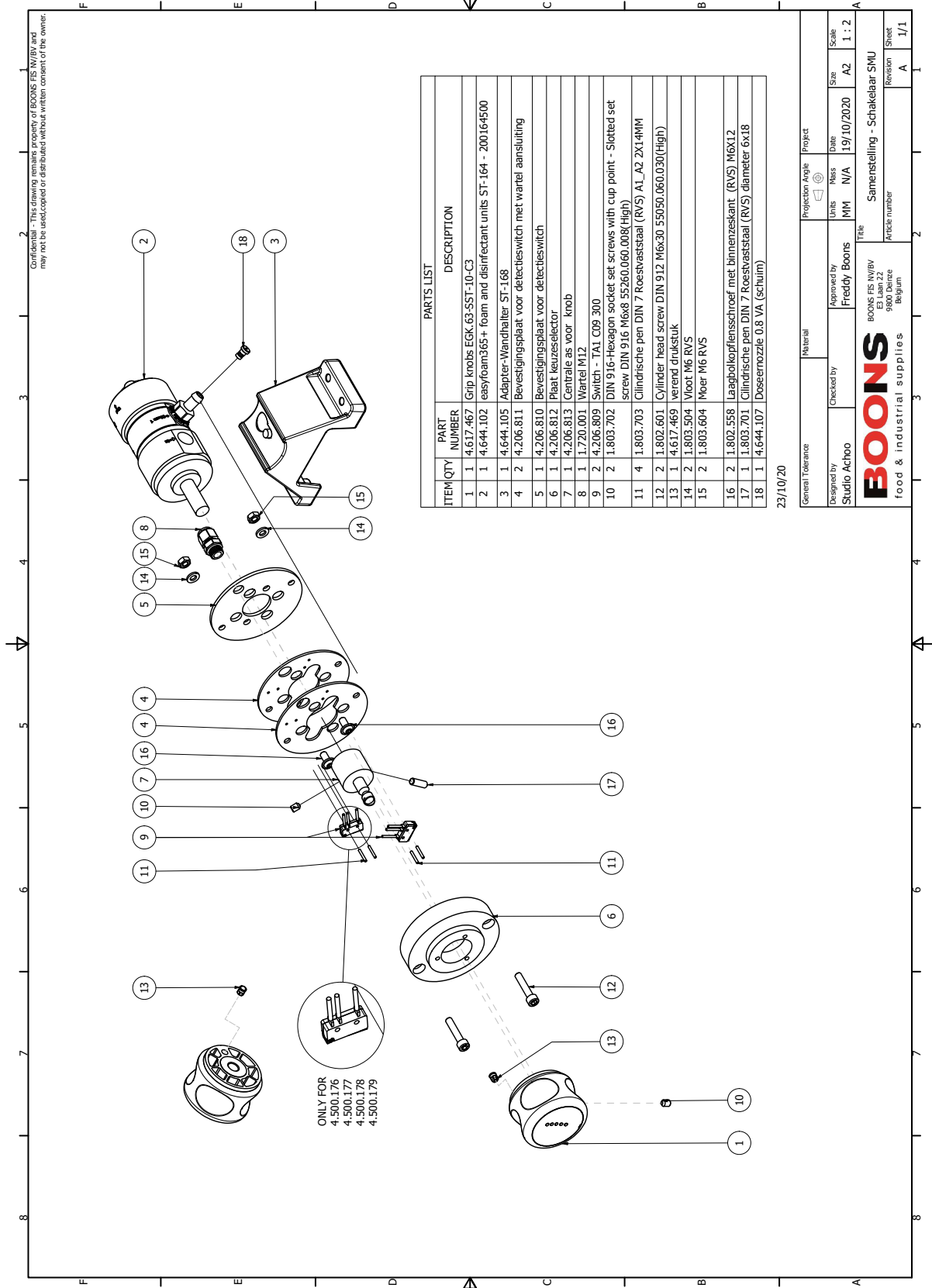
Certificates or reports:

Remarks:

Grundfos A/S reserves the right to change the specifications without further notice. Grundfos A/S cannot be held responsible for any missing, inaccurate or obsolete data. There may be discrepancies between calculated and rating plate values.



Switch

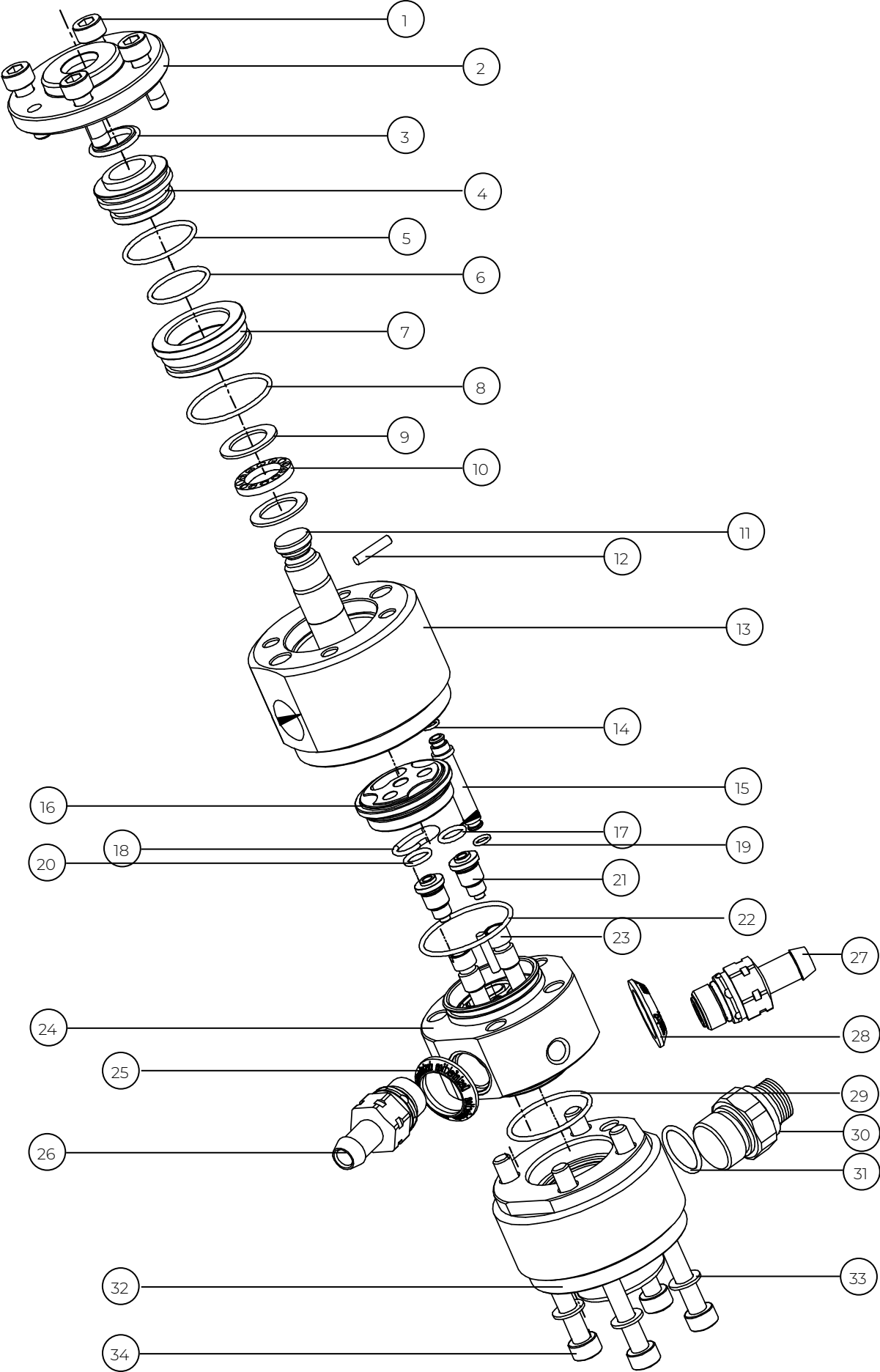


ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	4.617.467	Grip knobs EGK.63-SST-10-C3
2	1	4.644.102	easyfoam563+ foam and disinfectant units ST-164 - 200164500
3	1	4.644.105	Adapter-Wandhalter ST-168
4	2	4.206.811	Bevestigingsplaat voor detectieswitch met wartel aansluiting
5	1	4.206.810	Bevestigingsplaat voor detectieswitch
6	1	4.206.812	Plaat keuzeselector
7	1	4.206.813	Centrale as voor knob
8	1	1.720.001	Wartel M12
9	2	4.206.809	Switch - TAL C09 300
10	2	1.803.702	DIN 916-Hexagon socket set screws with cup point - Slotted set screw DIN 916 M6x8 55260.060.008(High)
11	4	1.803.703	Cilindrische pen DIN 7 Roesvaststaal (RVS) A1_A2 2X1.4MM
12	2	1.802.601	Cylinder head screw DIN 912 M6x30 55050.060.030(High)
13	1	4.617.469	verend drukstuk
14	2	1.803.504	Vloot M6 RVS
15	2	1.803.604	Moer M6 RVS
16	2	1.802.558	Laagbolkopfienschroef met binnenzekant. (RVS) M6X12
17	1	1.803.701	Cilindrische pen DIN 7 Roesvaststaal (RVS) diameter 6x18
18	1	4.644.107	Doseermozzle 0.8 VA (schuim)

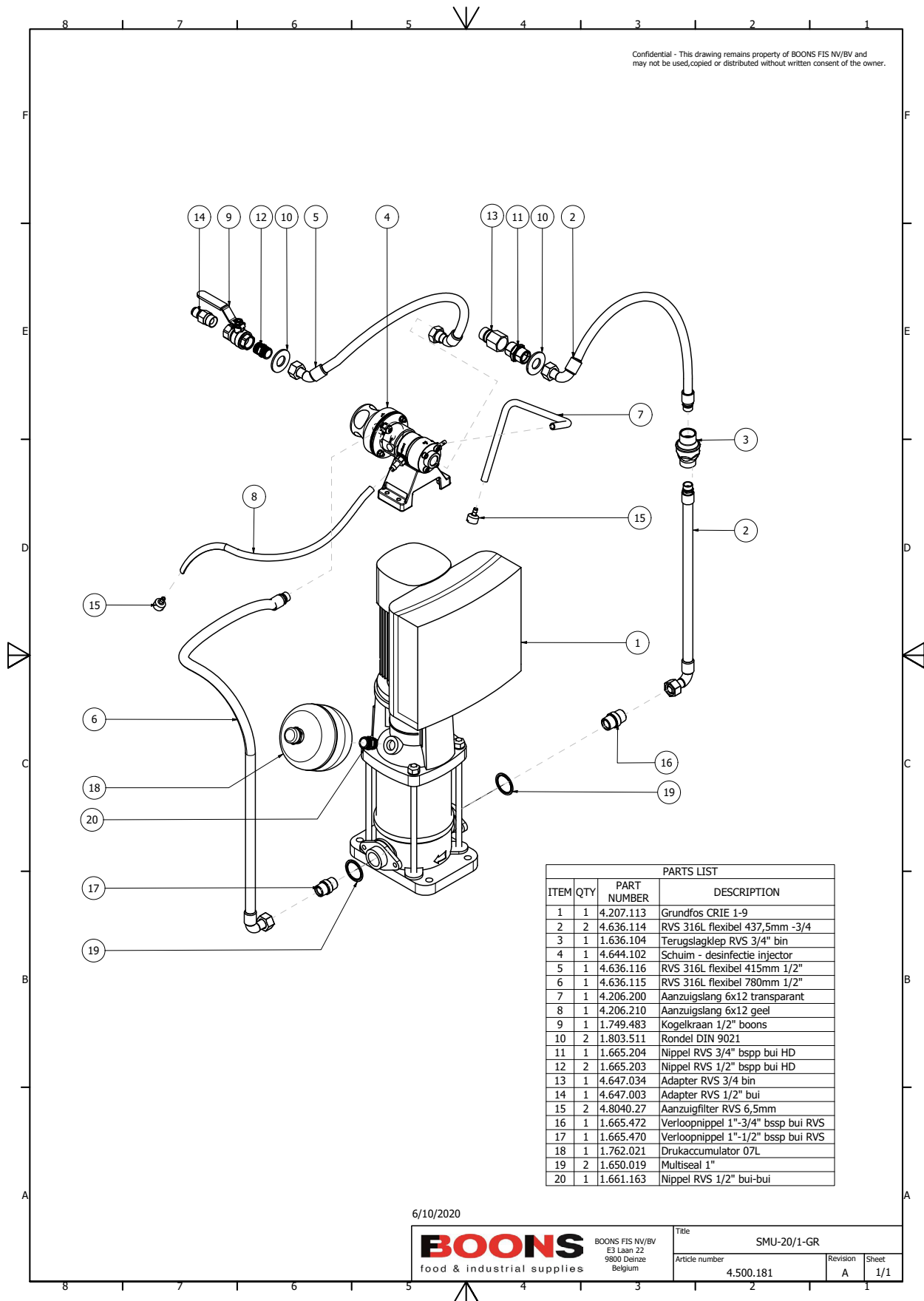
General Tolerance		Material		Projection Angle		Project		
Designed by	Checked by	Approved by	Units	Mass	Date	Size	Scale	
Studio Achoo	Freddy Boons	Freddy Boons	MM	N/A	19/10/2020	A2	1 : 2	
BOONS BOONS FIS NV/BV ES Leen 22 9100 Lierneux Belgium			Title Samenstelling - Schakelaar SMU				Article number Revision / Sheet A / 1/1	



Foaming and disinfection injector



	Article code	Description
1	4.644.166	Fuse bolt M6x20
2	4.644.167	Cover injector
3	4.644.176	Two-part PTFE seal
4	4.644.168	Plunger
5	4.644.174	O-ring 23x1,5 viton
6	4.644.175	O-ring 19x1,5 viton
7	4.644.169	Spacer
8	4.644.173	O-ring 27x1,5 EPDM 90Shore
9	4.644.172	Thrust collar
10	4.644.188	TM Bearing
11	4.644.170	Swivel
12	4.644.165	Pin DIN7/3x14
13	4.644.171	Upper part of injector
14	4.644.163	O-ring 4x1 EPDM 80Shore
15	4.644.164	Control channel
16	4.644.180	Sealing ring Peck
17	4.644.187	O-ring 7x1,5 FEPM 90Shore
18	4.644.179	O-ring 13x1,5 FEPM 90Shore
19	4.644.163	O-ring 4x1 EPDM 80Shore
20	4.644.187	O-ring 7x1,5 FEPM 90Shore
21	4.644.205	Injection nozzle 2.1
22	4.644.178	O-ring 30x1,5 EPDM 90Shore
23	4.644.209	Counter-nozzle 2.8
24	4.644.177	Middle part of injector
25	4.644.182	Suction marking yellow (disinfection)
26	4.644.160 + 4.644.106	Non-return valve PEEK + metering nozzle 0.6VA (disinfection)
27	4.644.160 + 4.644.107	Non-return valve PEEK + metering nozzle 0.8VA (foam)
28	4.644.181	Suction marking blue (foam)
29	4.644.173	O-ring 27x1,5 EPDM 90Shore
30	4.644.192	Valve 1/4"
31	4.644.191	O-ring 15x1,5
32	4.644.189	Bottom part of injector
33	4.644.162	Washer VS-6
34	4.644.161	Bolt M6x70



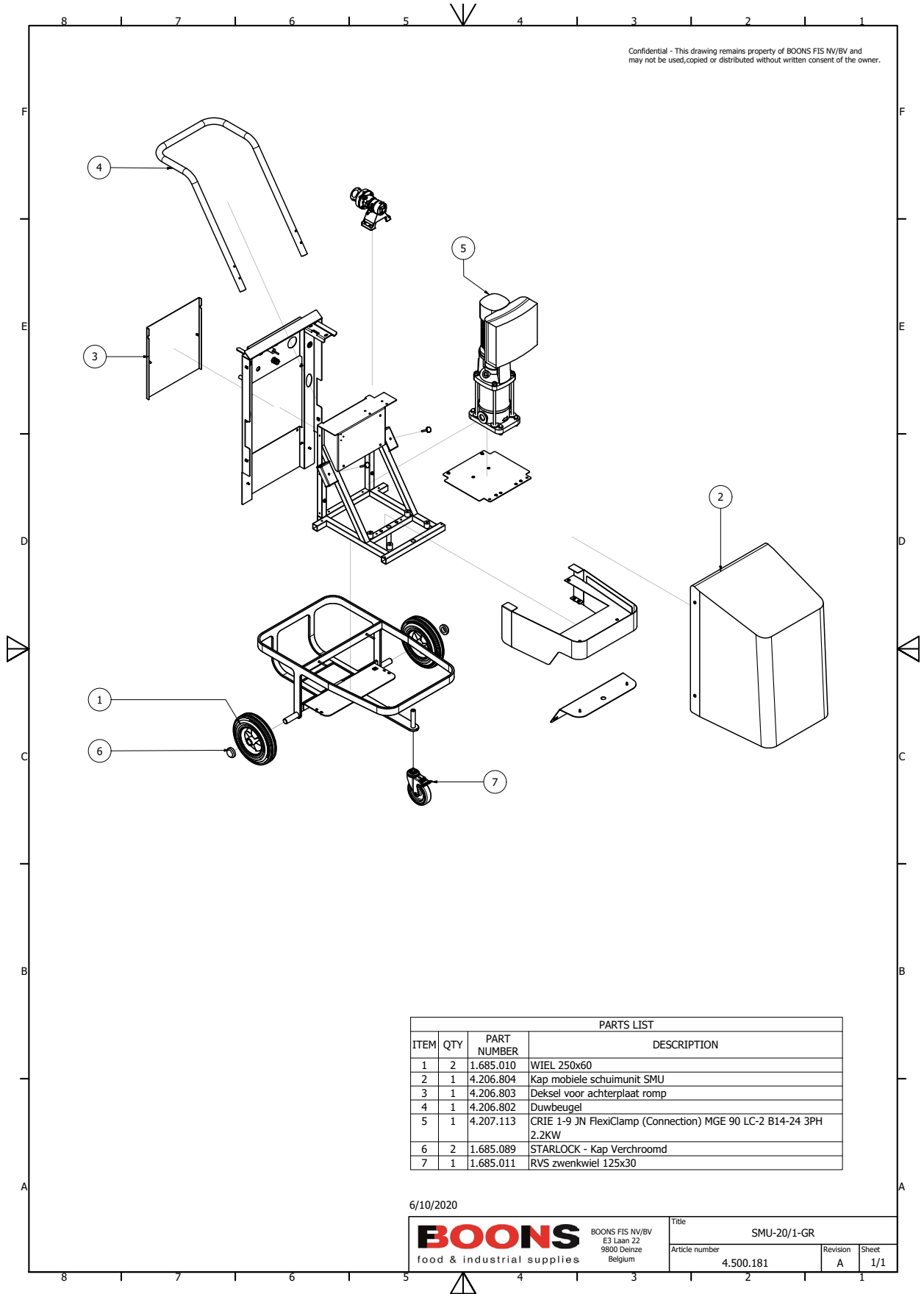
PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	4.207.113	Grundfos CRIE 1-9
2	2	4.636.114	RVS 316L flexibel 437,5mm -3/4
3	1	1.636.104	Terugslagklep RVS 3/4" bin
4	1	4.644.102	Schuim - desinfectie injector
5	1	4.636.116	RVS 316L flexibel 415mm 1/2"
6	1	4.636.115	RVS 316L flexibel 780mm 1/2"
7	1	4.206.200	Aanzuigslang 6x12 transparant
8	1	4.206.210	Aanzuigslang 6x12 geel
9	1	1.749.483	Kogelkraan 1/2" boons
10	2	1.803.511	Rondel DIN 9021
11	1	1.665.204	Nippel RVS 3/4" bspp bui HD
12	2	1.665.203	Nippel RVS 1/2" bspp bui HD
13	1	4.647.034	Adapter RVS 3/4 bin
14	1	4.647.003	Adapter RVS 1/2" bui
15	2	4.8040.27	Aanzuigfilter RVS 6,5mm
16	1	1.665.472	Verloopnippel 1"-3/4" bspp bui RVS
17	1	1.665.470	Verloopnippel 1"-1/2" bspp bui RVS
18	1	1.762.021	Drukaccumulator 07L
19	2	1.650.019	Multiseal 1"
20	1	1.661.163	Nippel RVS 1/2" bui-bui

6/10/2020

<p>BOONS food & industrial supplies</p>	BOONS FIS NV/BV E3 Laan 22 9800 Deinze Belgium	Title SMU-20/1-GR	
		Article number 4.500.181	Revision A
		Sheet 1/1	



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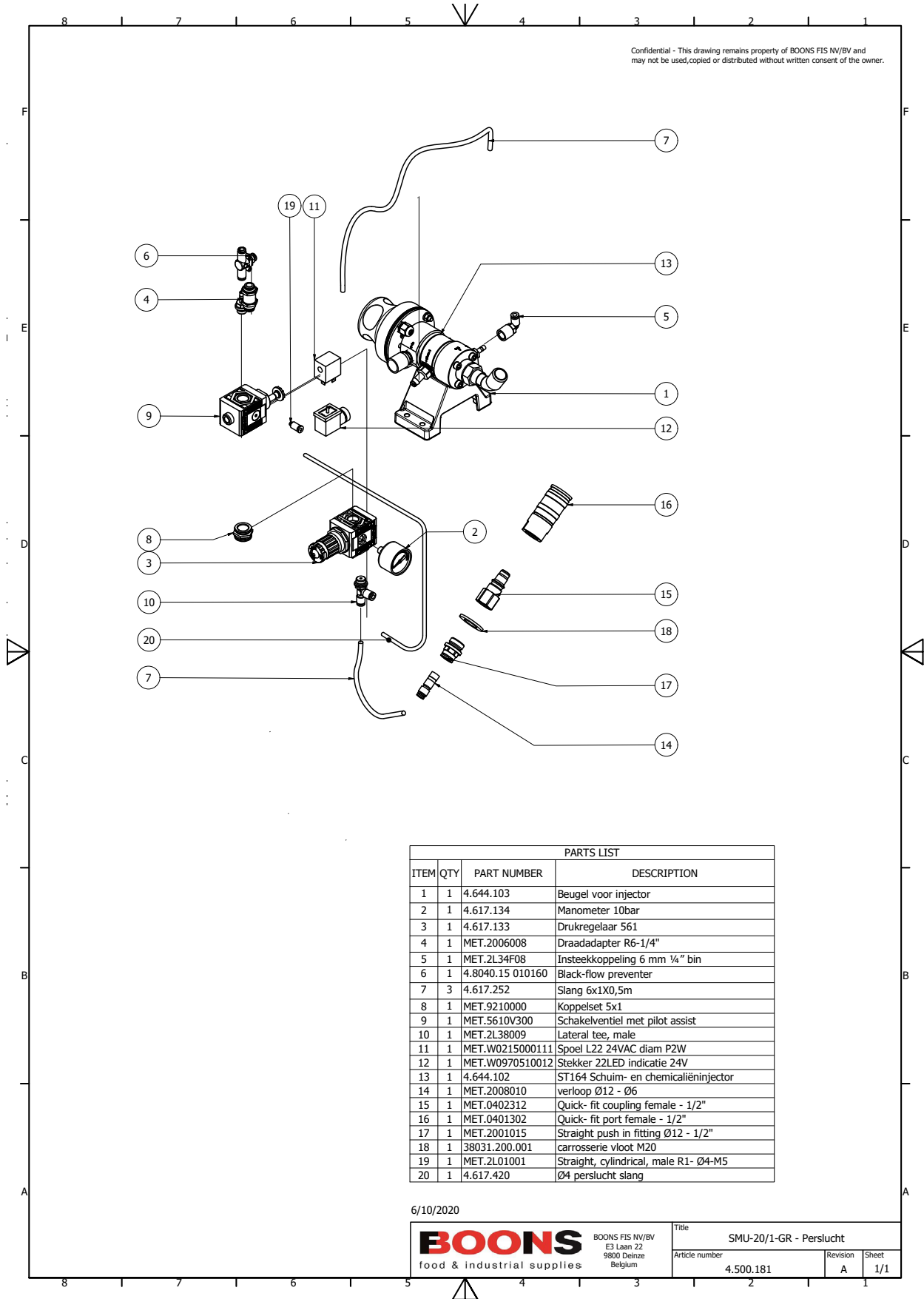
PARTS LIST				
ITEM	QTY	PART NUMBER	DESCRIPTION	
1	2	1.685.010	WIEL 250x60	
2	1	4.206.804	Kap mobiele schuimunit SMU	
3	1	4.206.803	Deksel voor achterplaat romp	
4	1	4.206.802	Duwbeugel	
5	1	4.207.113	CRIE 1-9 JN FlexiClamp (Connection) MGE 90 LC-2 B14-24 3PH 2.2KW	
6	2	1.685.089	STARLOCK - Kap Verchromd	
7	1	1.685.011	RVS zwenkwiel 125x30	

6/10/2020

BOONS food & industrial supplies	BOONS FIS NV/BV E3 Laan 22 9800 Deinze Belgium	Title SMU-20/1-GR		
		Article number 4.500.181	Revision A	Sheet 1/1



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PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	4.644.103	Beugel voor injector
2	1	4.617.134	Manometer 10bar
3	1	4.617.133	Drukregelaar 561
4	1	MET.2006008	Draadadapter R6-1/4"
5	1	MET.2L34F08	Insteekkoppeling 6 mm 1/4" bin
6	1	4.8040.15 010160	Black-flow preventer
7	3	4.617.252	Slang 6x1X0,5m
8	1	MET.9210000	Koppelse 5x1
9	1	MET.5610V300	Schakelventiel met pilot assist
10	1	MET.2L38009	Lateral tee, male
11	1	MET.W0215000111	Spoel L22 24VAC diam P2W
12	1	MET.W0970510012	Stekker 22LED indicatie 24V
13	1	4.644.102	ST164 Schuim- en chemicaliëninjector
14	1	MET.2008010	verloop Ø12 - Ø6
15	1	MET.0402312	Quick- fit coupling female - 1/2"
16	1	MET.0401302	Quick- fit port female - 1/2"
17	1	MET.2001015	Straight push in fitting Ø12 - 1/2"
18	1	38031.200.001	carrosserie vlood M20
19	1	MET.2L01001	Straight, cylindrical, male R1- Ø4-M5
20	1	4.617.420	Ø4 perslucht slang

6/10/2020

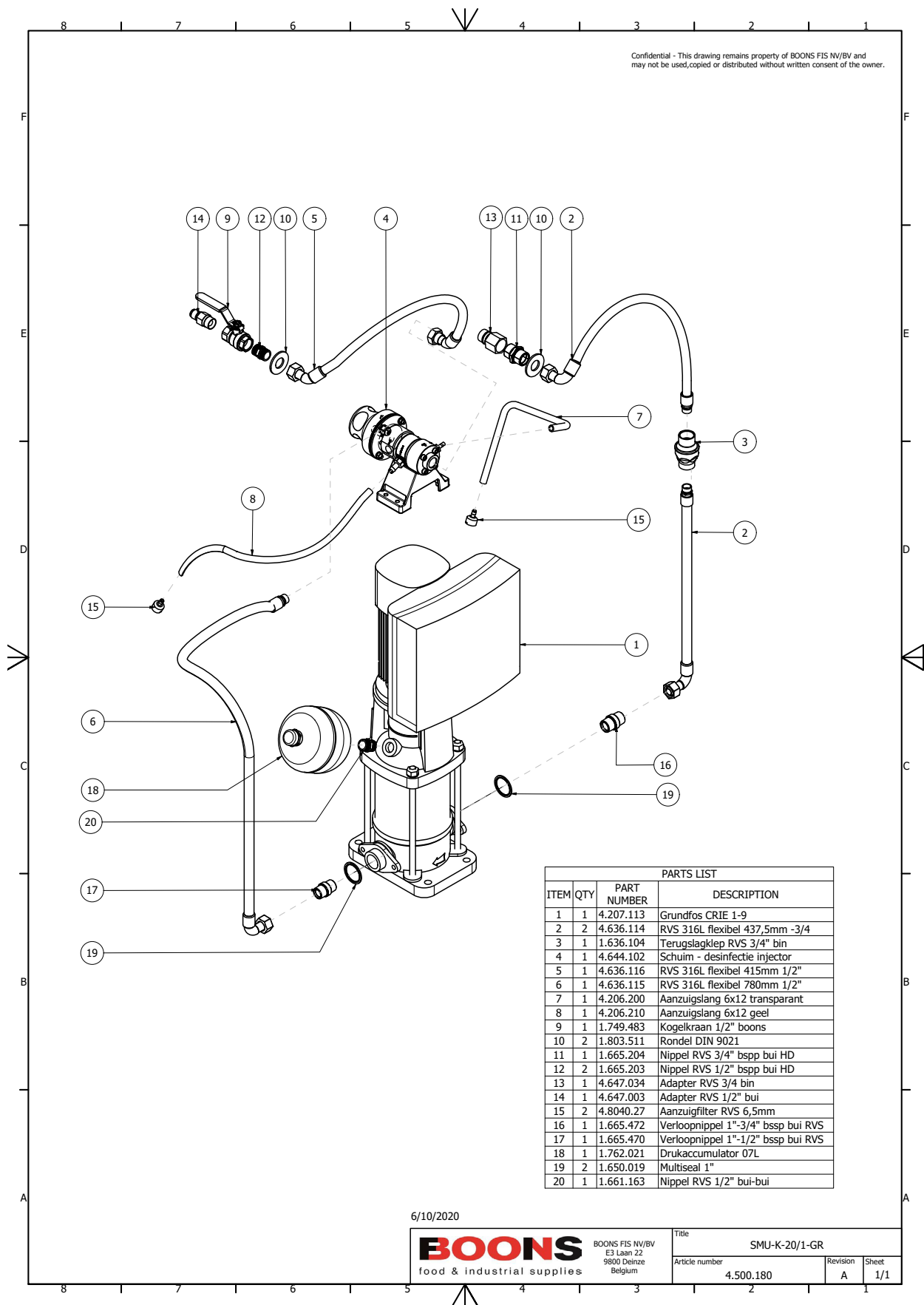
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E3 Laan 22
9800 Deinze
Belgium

Title		SMU-20/1-GR - Perslucht	
Article number	Revision	Sheet	
4.500.181	A	1/1	



SMU-K-20/1-GR



PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	4.207.113	Grundfos CRIE 1-9
2	2	4.636.114	RVS 316L flexibel 437,5mm -3/4
3	1	1.636.104	Terugslagklep RVS 3/4" bui
4	1	4.644.102	Schuim - desinfectie injector
5	1	4.636.116	RVS 316L flexibel 415mm 1/2"
6	1	4.636.115	RVS 316L flexibel 780mm 1/2"
7	1	4.206.200	Aanzuigslang 6x12 transparant
8	1	4.206.210	Aanzuigslang 6x12 geel
9	1	1.749.483	Kogelkraan 1/2" boons
10	2	1.803.511	Rondel DIN 9021
11	1	1.665.204	Nippel RVS 3/4" bssp bui HD
12	2	1.665.203	Nippel RVS 1/2" bssp bui HD
13	1	4.647.034	Adapter RVS 3/4 bin
14	1	4.647.003	Adapter RVS 1/2" bui
15	2	4.8040.27	Aanzuigfilter RVS 6,5mm
16	1	1.665.472	Verloopnippel 1"-3/4" bssp bui RVS
17	1	1.665.470	Verloopnippel 1"-1/2" bssp bui RVS
18	1	1.762.021	Drukaccumulator 07L
19	2	1.650.019	Multiseal 1"
20	1	1.661.163	Nippel RVS 1/2" bui-bui

6/10/2020

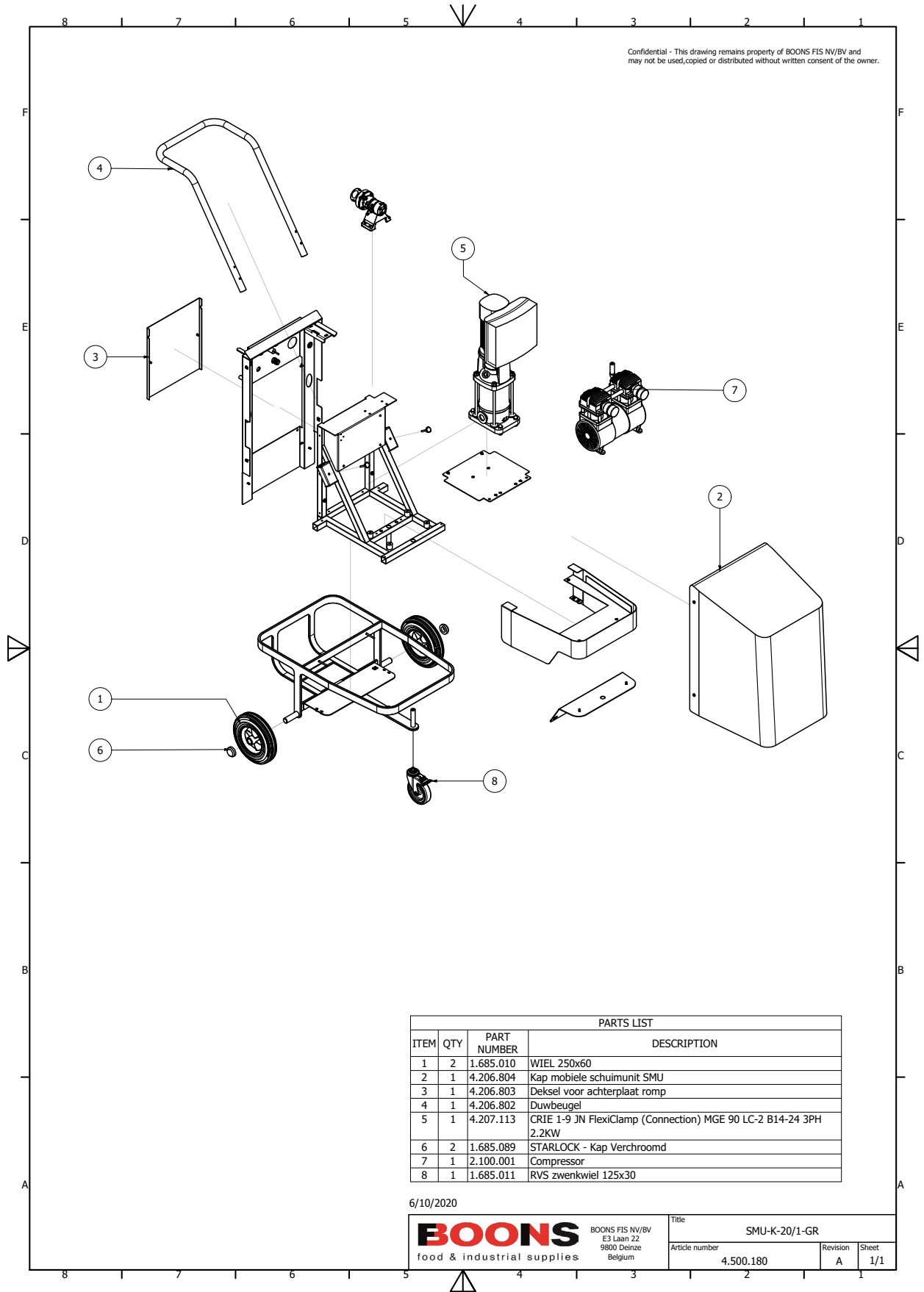
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E3 Laan 22
9800 Deinze
Belgium

Title	SMU-K-20/1-GR		
Article number	4.500.180	Revision	A
Sheet	1/1		




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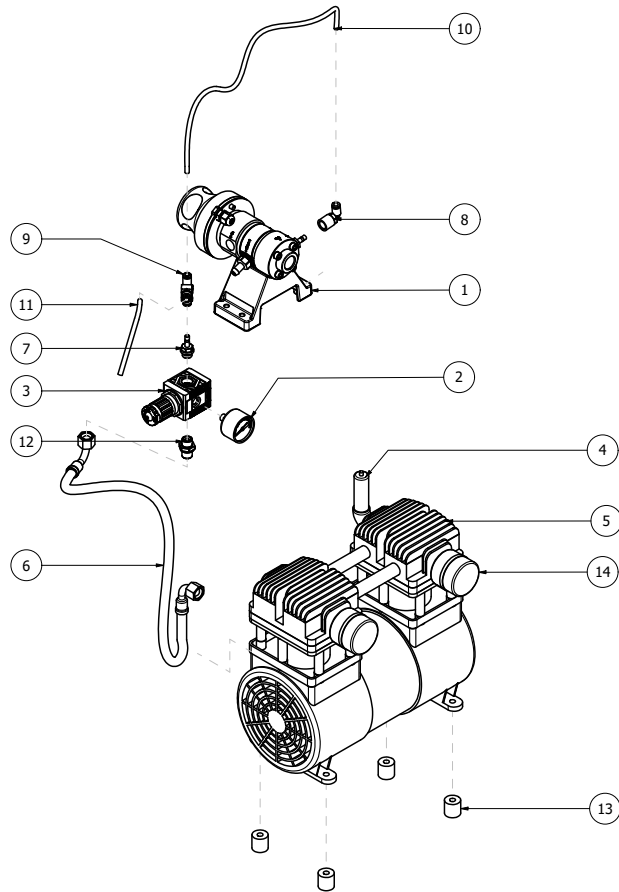
PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	2	1.685.010	WIEL 250x60
2	1	4.206.804	Kap mobiele schuimunit SMU
3	1	4.206.803	Deksel voor achterplaat romp
4	1	4.206.802	Duwbeugel
5	1	4.207.113	CRIE 1-9 JN FlexiClamp (Connection) MGE 90 LC-2 B14-24 3PH 2.2KW
6	2	1.685.089	STARLOCK - Kap Verchroomd
7	1	2.100.001	Compressor
8	1	1.685.011	RVS zwenkwiel 125x30

6/10/2020

 BOONS food & industrial supplies	BOONS FIS NV/BV E3 Laan 22 9800 Driize Belgium	Title SMU-K-20/1-GR	
		Article number 4.500.180	Revision A
		Sheet 1/1	




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PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	4.644.103	Beugel voor injector
2	2	4.617.134	Manometer 10bar
3	1	4.617.133	Drukregelaar 561
4	2	2.100.012	Overdrukventiel
5	1	2.100.001	Compressor 1200W
6	1	2.100.010	RVS flexibel 1/4"
7	1	MET.2006008	Draadadapter R6-1/4"
8	1	MET.2L34F08	Insteekkoppeling 600mm 1/4bin"
9	1	4.8040.15	Black-flow preventer 010160
10	1	4.617.252	Slang 6x1X0,5m
11	1	4.617.252	Slang 6x1X0,8m
12	1	1.661.161	Nippel 1/4" RVS
13	4	2.100.013	Trillingsdemper
14	2	2.100.011	Filters

25/02/2020

 BOONS FIS NV/BV E3 Laan 22 9800 Driize Belgium	Title SMU-K-20/1-GR	
	Article number 4.500.180	Revision A

Sheet
1/1



		<p>BOONS FIS nv Nijverheidstraat 1 B-9810 Nazareth</p> <p>Tel BE: +32 (0)9 387 79 79 Tel NL: +31 (0)418 65 10 70 Fax: +32 (0)9 387 79 70 E-mail: sales@boonsfis.com Internet: www.boonsfis.com</p>	
<p>Type: SMU-20/1-GR</p> <p>Serienummer: 4.500.181</p> <p>Klant:</p>		<p>BOONS food & industrial supplies</p>	
<p><u>Klantgegevens:</u> Klant</p> <p>Telefoon Fax E-mail</p> <p>Installatieplaats Bijzonderheden</p> <p>Aanmaakdatum project 20/06/2019 Project gemaakt door Robby Smet Bestandsnaam: <u>O:\SEE Electrical drawing\Projects\Klanten\ Boons Standaard\SMU-20_1-GR.sep</u></p>		<p>Voeding 3 x 400 V + PE, 16 A Max. Fuse Vermogen 2.2 kW Stuurspanning 24V AC Bouwjaar 2020 Software</p> <p>Hoogste paginanummer 4 Aantal pagina's 17 Laatste wijziging 5/10/2022 Laatste wijziging door Plottedatum 5/10/2022</p>	
		<p>SMU-20/1-GR 4.500.181</p>	
<p>Voorblad</p>		<p>Projectnaam: SMU-20_1-GR Datum: 11/04/2017</p>	
<p>Tekeningnr.: Tek.: Robby Smet</p>		<p>Volgnr.: 1 Blad: 1 Van: 2</p>	

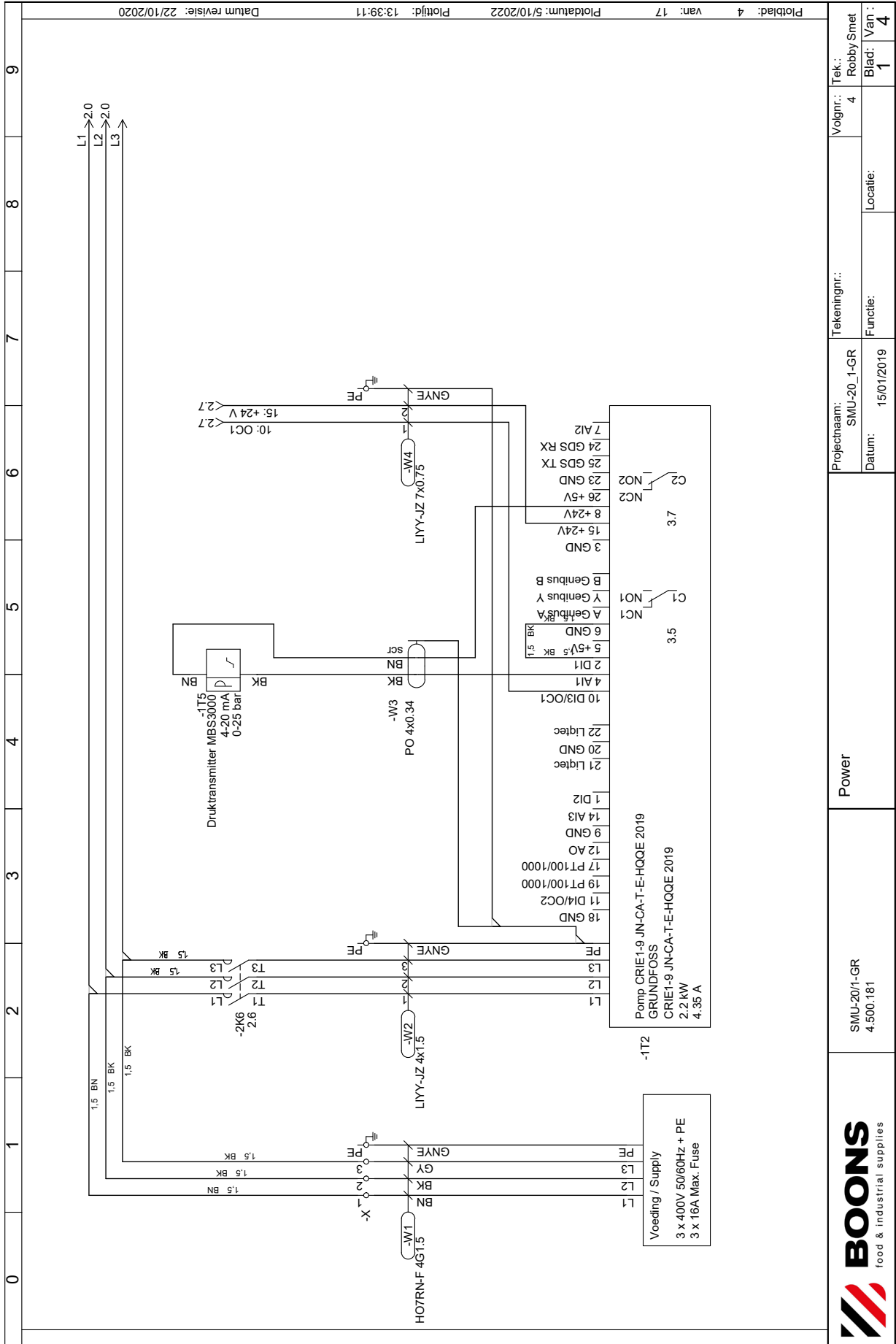
Plotblad: 1 van: 17 Plottedatum: 5/10/2022 Plotijf: 13:39:11 Datum revisie: 5/10/2022

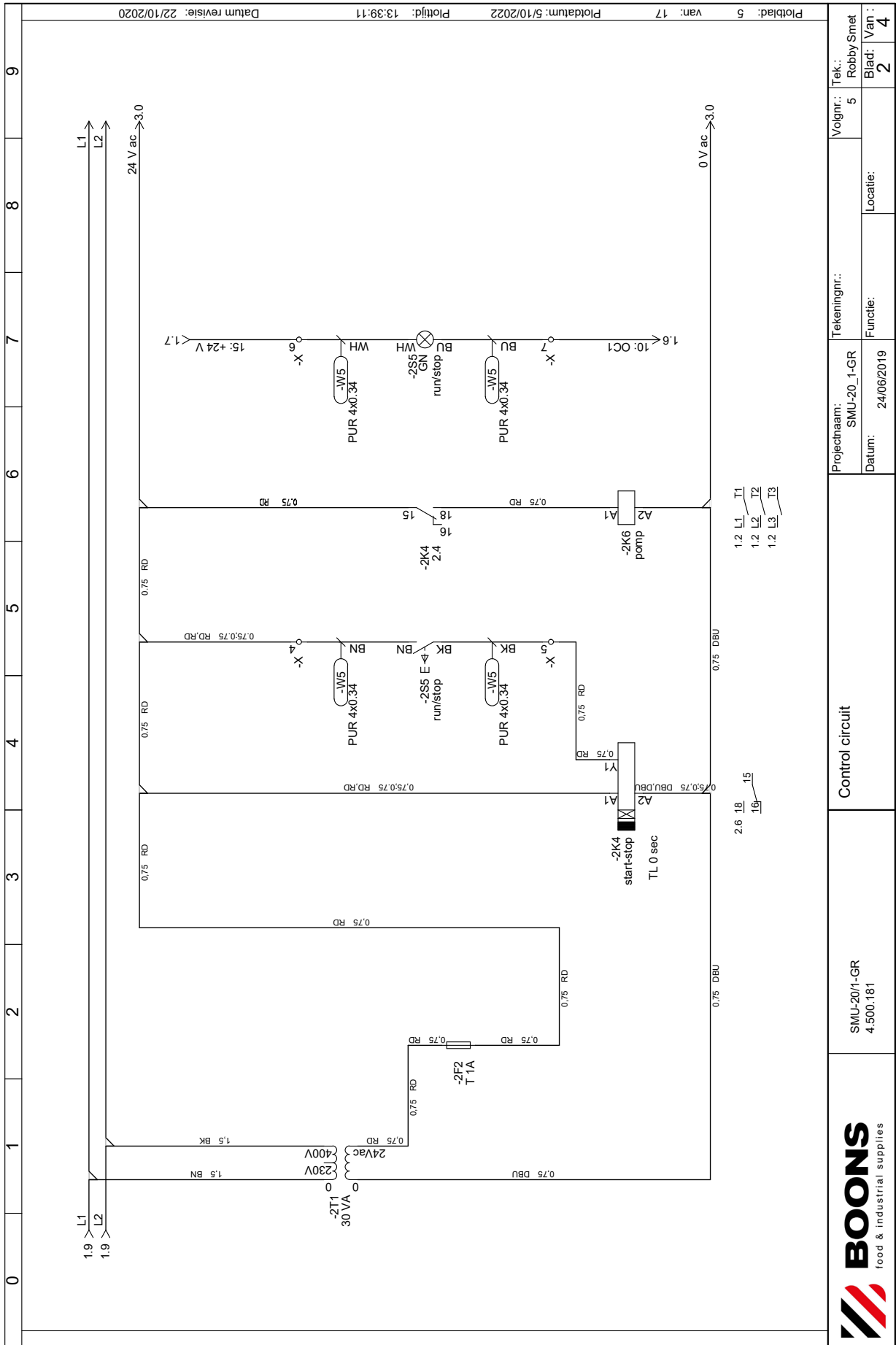


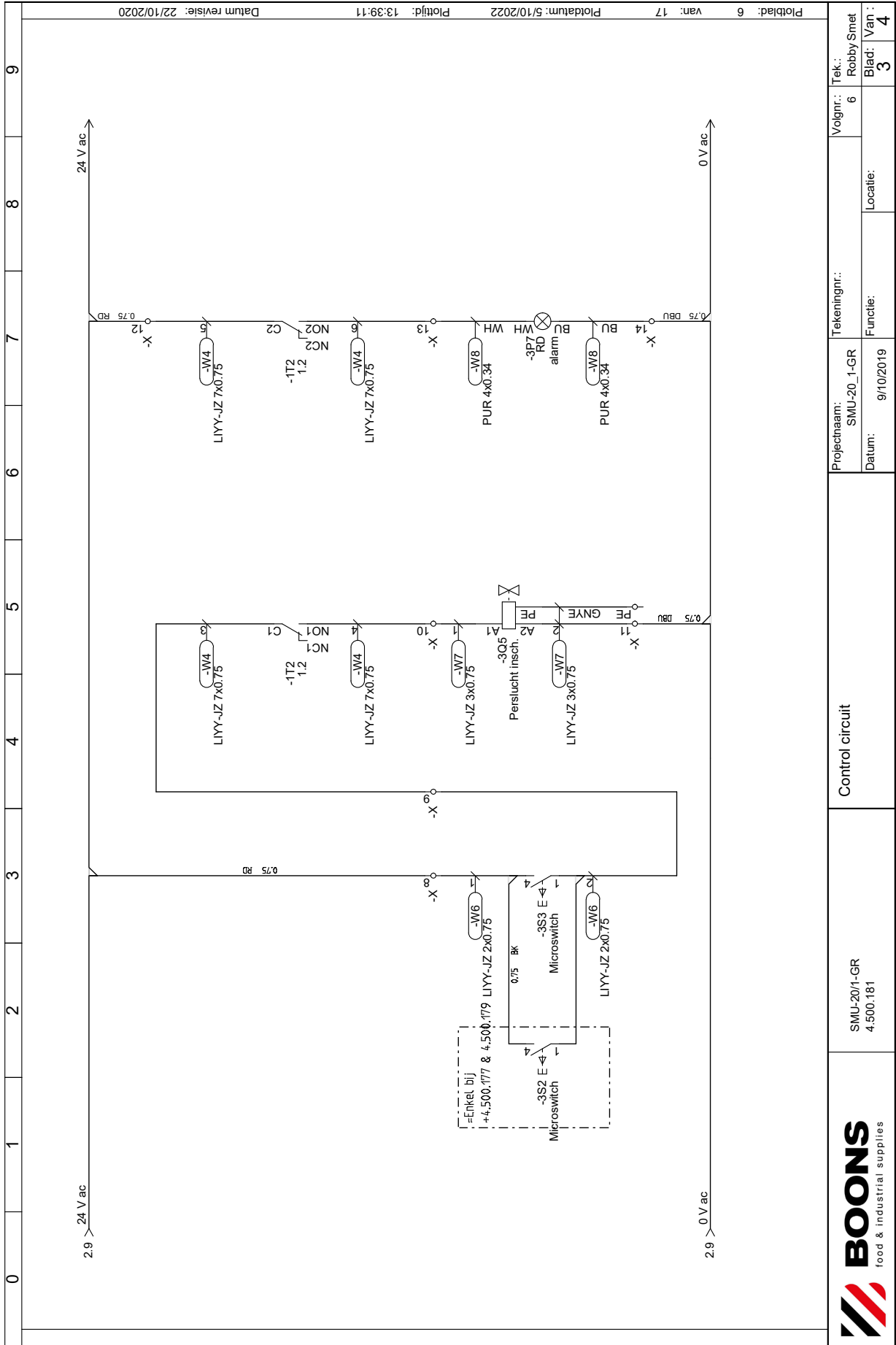
Plotsblad: 2 van: 17 Plotsdatum: 5/10/2022 Plots tijd: 13:39:11 Datum revisie: 22/10/2020		Tek.: Robby Smet Blad: 2 van: 2	
Uittreksel van IEC 81342-2 - Tabel 1: CODE Doel of taak van object A Twee of meer doelen en / of taken Hint: Deze klasse dient uitsluitend te worden gebruikt bij objecten aan wie geen primaire taak kan worden toegewezen. Bijvoorbeeld: een touchscreen. (doordat er ook invoer plaats kan vinden, een normaal scherm presenteert alleen informatie, daarom P)		Volgnr.: 2 Locatie:	
B Converteren van een ingangswaarde (fysieke grootte, conditie of gebeurtenis) naar een signaal, geschikt voor verdere verwerking. Bijvoorbeeld: branddetector, gasdetector, meetelement, meetrelais, microfoon, fotocel, fotodiode, fototransistor, eindeloopschakelaar, benaderingsschakelaar, benaderingssensor, meetweerstand, sensor, stroomtransformator, spanningstransformator, rooksensoren, tachogenerator, temperatuursensor, thermisch beveiligingsrelais, videocamera.		Tekeningsnr.: Projectnaam: SMU-20_1-GR Datum: 11/04/2017	
C Opslaan van energie, materiaal of informatie. Bijvoorbeeld: bufferbatterij, condensator, datalogger, harde schijf, geheugen, RAM, bandopnemer, videorecorder, register.		Normtekens Kleurcodering	
D (Gereserveerd voor toekomstige standaardisatie)		SMU-20/1-GR 4.500.181	
E Aanbieden van straling of thermische energie. (Koelen, verwarmen, verlichten, doorstralen) Bijvoorbeeld: boiler, fluorescentielamp, verwarmingstoestel, lamp, laser, verwarmingsweerstand.		BOONS food & industrial supplies	
F Directe beveiliging (autonoom) van een stroom van energie, signalen, personeel, of apparatuur voor ongewenste condities of gevaar. Inclusief systemen en apparatuur voor beveiliging doeleinden. Bijvoorbeeld: automaat, bimetaalafschakeling, radioontstoringselementen, smeltveiligheid, vonkblusinrichtingen, Kooi van Faraday, Thermische beveiliging., Aardlekschakelaar		0	
G Initiëren van een energiegolf of materiaal Bijvoorbeeld: droge cel batterij, generator, vermogensgenerator, signaalgenerator, dynamo, oscillator, zonnecel, brandstofcel, voeding, UPS. Genereert signalen die als informatiedrager of referentie bron dienst doen		1	
H Produceren van een nieuw soort materiaal of product Bijvoorbeeld: Shredder, menger, centrifuge, distilleerkolom, fermentatiekolom, magnetische scheider, reactor		2	
I Mag niet toegepast worden		3	
J (Gereserveerd voor toekomstige standaardisatie)		4	
K Verwerken (ontvangen, behandelen en aanbieden) van signalen of informatie (exclusief objecten voor beveiligingsdoeleinden, zie klasse F). Bijvoorbeeld: analoge en digitale IC's, CPU, EMC-filters, relais, vertragslijn, vertragslijn, elektronenbuis, regelaar, microprocessor, PLC, contactor, filter, tijdrelais, hulprelais, transistor, elektronisch bediende kleppen, elektronenbuis (diode/triode/tetrode/pentode/hexode/heptode/octode).		5	
L (Gereserveerd voor toekomstige standaardisatie)		6	
M Genereren mechanische energie (draai- of lineair) Mechanische beweging voor aandrijf doeleinden. Bijvoorbeeld: motor, lineaire motor, actuator.		7	
N (Gereserveerd voor toekomstige standaardisatie)		8	
O Mag niet toegepast worden		9	
P Presenteren van informatie Bijvoorbeeld: ampèremeter, bel, controlelamp, display, klok, LED, luidspreker, printer, signaallamp, sirene, voltmeter, wattmeter, kWh-meter, zoemer, beeldscherm (geen touchscreen).		0	
Q Gecontroleerd schakelen van een variërende stroom van energie, signalen of materiaal (Voor signalen in controle circuits, zie Klasse K en S) Bijvoorbeeld: lastscheider, motorstarter, motorbeveiligingsschakelaars, scheider, scheidingschakelaars, smeltveiligheidscheider, sterddriehoekschakelaars, thyristor, triac, vermogenautomaat, vermogenschakelaar, vermogencontactor, vermogentransistor.		1	
R Beperken of stabiliseren stroombeweging of beweging van energie, informatie of materiaal Bijvoorbeeld: diode, diac, instelweerstand, potentiometer, spoel, tunnel diode, varicap, weerstand, zenerdioden, spanningsstabilisator.		2	
S Omzetten van een handmatige handeling naar een signaal voor verdere verwerking. Bijvoorbeeld: bedieningsapparaten, controleschakelaar, draaischakelaar, drukknop, muis, schakelaar, toetsenbord.		3	
T Omzetten van energie met handhaving van energietype Omzetten van een bekend signaal met behoud van de getransporteerde informatie Omzetten van het formaat of vorm van het materiaal Bijvoorbeeld: versterker, antenne, demodulator, frequentie-omvormer, modulator, meetomvormer, gelijkrichter, vermogentransformator, signaaltransformator, softslarter, scheidingsversterker, spanningsomvormer, stroomomzetter.		4	
U Handhaven objecten op een gedefinieerde positie Bijvoorbeeld: isolator, kabelgoot, montage rail		5	
V Verwerken (behandelen) van product materiaal (inclusief voor- en nabehandeling). Bijvoorbeeld: elektrofilter, wasmachine, verpakkingsmachine, palletiseermachine.		6	
W Leiden of transporteren van energie, signalen of producten van de ene plaats naar de andere Bijvoorbeeld: informatiebus, kabels, leidingen, optische geleider		7	
X Verbinden van objecten. Bijvoorbeeld: contactpen, connector, klem, klemmenstroken, meetpunt, hub		8	
Y (Gereserveerd voor toekomstige standaardisatie)		9	
Z (Gereserveerd voor toekomstige standaardisatie)		0	


Wit	W.H	W.H	W.H
Zwart	B.K	B.K	B.K
Bruin	B.N	B.N	B.N
Rood	R.D	R.D	R.D
Rood	R.D	R.D	R.D
Rood	R.D	R.D	R.D
Geel	G.Y	G.Y	G.Y
Geel/groen	G.N.Y	G.N.Y	G.N.Y
Paars	P.A	P.A	P.A
Transparant	T.R	T.R	T.R
Oranje	O.G	O.G	O.G
Oranje	O.G	O.G	O.G
Oranje	O.G	O.G	O.G
Blauw	B.L	B.L	B.L
Donkerblauw	D.B.L	D.B.L	D.B.L
Blauw	B.L	B.L	B.L
Nullleider	N.L	N.L	N.L



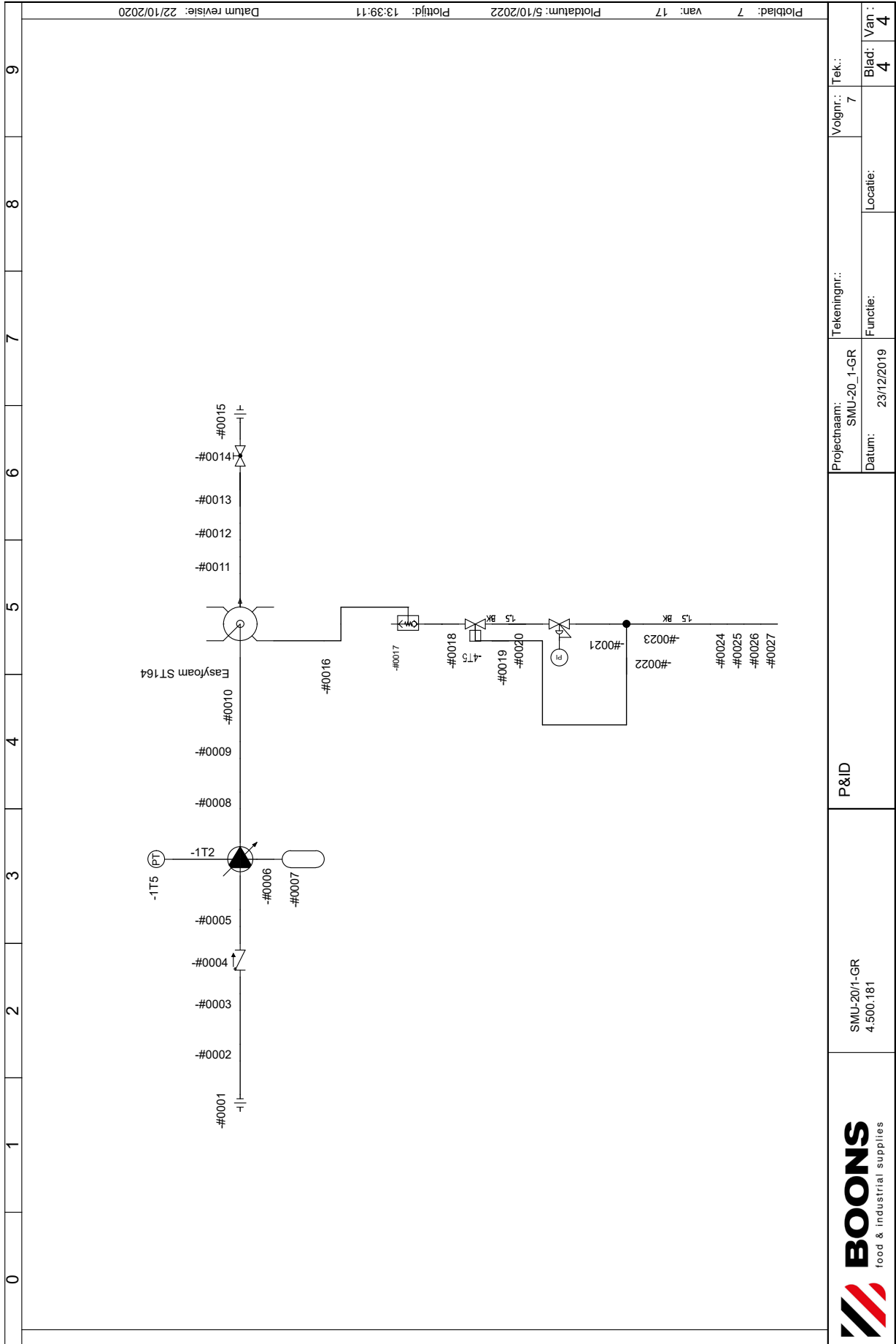






	SMU-20/1-GR 4.500.181	Control circuit		Projectnaam: SMU-20_1-GR	Tekeningnr.:	Volgnt.: 6	Tek.: Robby Smet
		Datum: 9/10/2019	Functie:				

Platblad: 6 van: 17 Platdatum: 5/10/2022 Plotid: 13:39:11 Datum revisie: 22/10/2020



SMU-20/1-GR
4.500.181

P&ID

Projectnaam: SMU-20_1-GR

Datum: 23/12/2019

Tekeningnr.:

Volgnt.: 7

Tek.:

Locatie:

Functie:

Blad: 4

Van: 4

0

1

2

3

4

5

6

7

8

9

Plotblad: 7 van: 17 Plotdatum: 5/10/2022 Plottijd: 13:39:11 Datum revisie: 22/10/2020



0 1 2 3 4 5 6 7 8 9

Type:
SMU-K-20/1-GR
Serienummer:
4.500.180
Klant:



BOONS
 food & industrial supplies

BOONS FIS nv
 Nijverheidstraat 1
 B-9810 Nazareth
 Tel BE: +32 (0)9 387 79 79
 Tel NL: +31 (0)418 65 10 70
 Fax: +32 (0)9 387 79 70
 E-mail: sales@boonsfis.com
 Internet: www.boonsfis.com

Klantgegevens:

Klant

Voeding 3 x 400 V + PE, 16 A Max. Fuse
 Vermogen 3.5 kW
 Stuurspanning 24V AC
 Bouwjaar 2020
 Software

Telefoon
 Fax
 E-mail

Hoogste paginanummer 4
 Aantal pagina's 16
 Laatste wijziging 5/10/2022
 Laatste wijziging door
 Plottedatum 5/10/2022

Installatieplaats
 Bijzonderheden
 Aanmaakdatum project 20/06/2019
 Project gemaakt door Robby Smet
 Bestandsnaam:

O:\SEE Electrical drawing\Projects\Klanten\ Boons Standaard\SMU-K-20_1-GR.sep

Plotblad: 1 Van: 16 Plottedatum: 5/10/2022 Plottijd: 13:43:56 Datum revisie: 5/10/2022



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SMU-K-20/1-GR
 4.500.180

Voorblad

Projectnaam:
 SMU-K-20_1-GR
 Datum: 11/04/2017

Tekeningnr.:
 Functie:
 Locatie:

Volgnr.: 1 Tek.: Robby Smet
 Blad: 1 Van: 2

0	Uittreksel van IEC 81346-2 - Tabel 1: CODE Doel of taak van object A Twee of meer doelen en / of taken Hint: Deze klasse dient uitsluitend te worden gebruikt bij objecten aan wie geen primaire taak kan worden toegewezen. Bijvoorbeeld: een touchscreen. (doordat er ook invoer plaats kan vinden, een normaal scherm presenteert alleen informatie, daarom P)	Plotselid: 2 van: 16 Plotselid: 13:43:56 Datum revisie: 5/10/2022	Tekeningnr.: Projectnaam: SMU-K-20_1-GR Datum: 11/04/2017	Tek.: Robby Smet Blad: 2 Van: 2
1	Y (Gereserveerd voor toekomstige standaardisatie) Z (Gereserveerd voor toekomstige standaardisatie)			
2	U Handhaven objecten op een gedefinieerde positie Bijvoorbeeld: isolator, kabelgoot, montagerail V Verwerken (behandelen) van product materiaal (inclusief voor- en nabehandeling). Bijvoorbeeld: elektrofilter, wasmachine, verpakkingsmachine, palletseermachine. W Leiden of transporteren van energie, signalen of producten van de ene plaats naar de andere Bijvoorbeeld: informatiebus, kabels, leidingen, optische geleider			
3	R Beperken of stabiliseren stroombeweging of beweging van energie, informatie of materiaal Bijvoorbeeld: diode, diac, instelweerstand, potentiometer, spoel, tunneliode, varicap, weerstand, zenerdioden, spanningsstabilisator. S Omzetten van een handmatige handeling naar een signaal voor verdere verwerking. Bijvoorbeeld: bedieningsapparaten, controleschakelaar, draaischakelaar, drukknop, muis, schakelaar, toetsenbord. T Omzetten van energie met handhaving van energietype Omzetten van een bekend signaal met behoud van de getransporteerde informatie Omzetten van het formaat of vorm van het materiaal Bijvoorbeeld: versterker, antenne, demodulator, frequentie-omvormer, modulator, meetomvormer, gelijkrichter, vermogenstransformator, signaaltransformator, softstarter, scheidingsversterker, spanningsomvormer, stroomomzetter.			
4	Q Gecontroleerd schakelen van een variërende stroom van energie, signalen of materiaal (Voor signalen in controle circuits, zie klasse K en S) Bijvoorbeeld: lastscheider, motorstarter, motorbeveiligingsschakelaars, scheidingschakelaars, smeltveiligheidschakelaar, sterdrievoelsschakelaars, thyristor, triac, vermogenautomat, vermogensschakelaar, vermogencontactor, vermogenstransistor.			
5	M Genereren mechanische energie (draai- of lineair) Mechanische beweging voor aandrijf doeleinden. Bijvoorbeeld: motor, lineaire motor, actuator. N (Gereserveerd voor toekomstige standaardisatie) O Mag niet toegepast worden			
6	J (Gereserveerd voor toekomstige standaardisatie) K Verwerken (ontvangen, behandelen en aanbieden) van signalen of informatie (exclusief objecten voor beveiligingsdoeleinden, zie klasse F). Bijvoorbeeld: analoge en digitale IC's, CPU, EMC-filters, relais, vertragslijn, vertragslijn, elektronenbuis, regelaar, microprocessor, PLC, contactor, filter, tijdrelais, hulprelais, transistor, elektronisch bediende kleppen, elektronenbuis (diode/triode/tetrode/pentode/hexode/heptode/octode). L (Gereserveerd voor toekomstige standaardisatie)			
7	F Directe beveiliging (autonoom) van een stroom van energie, signalen, personeel, of apparatuur voor ongewenste condities of gevaar. Inclusief systemen en apparatuur voor beveiliging doeleinden. Bijvoorbeeld: automaat, bimetaalafschakeling, radioontstoringselementen, smeltveiligheid, vonkvlusinrichtingen, Kooi van Faraday, Thermische beveiliging, Aardlekschakelaar G Initiëren van een energiegolf of materiaal Bijvoorbeeld: droge cel batterij, generator, vermogensgenerator, signaalgenerator, dynamo, oscillator, zonnecel, brandstofcel, voeding, UPS. Genereert signalen die als informatiedrager of referentie bron dienst doen H Produceren van een nieuw soort materiaal of product Bijvoorbeeld: Shredder, menger, centrifuge, distilleerkolom, fermentatiekolom, magnetische scheider, reactor I Mag niet toegepast worden			
8	D (Gereserveerd voor toekomstige standaardisatie) E Aanbieden van straling of thermische energie. (Koelen, verwarmen, verlichten, doorstralen) Bijvoorbeeld: boiler, fluorescentielamp, verwarmingstoestel, lamp, laser, verwarmingsweerstand. C Opslaan van energie, materiaal of informatie. Bijvoorbeeld: bufferbatterij, condensator, datalogger, harde schijf, geheugen, RAM, bandopnemer, videorecorder, register. B Converteren van een ingangswaarde (fysieke grootte, conditie of gebeurtenis) naar een signaal, geschikt voor verdere verwerking. Bijvoorbeeld: branddetector, gasdetector, meetelement, meetrelais, microfoon, fotocel, fotodiode, fototransistor, eindeloopschakelaar, benaderingsschakelaar, benaderingssensor, meetweerstand, sensor, stroomtransformator, spanningstransformator, rooksensor, tachogenerator, temperatuursensor, thermisch beveiligingsrelais, videocamera.			
9	A Twee of meer doelen en / of taken			

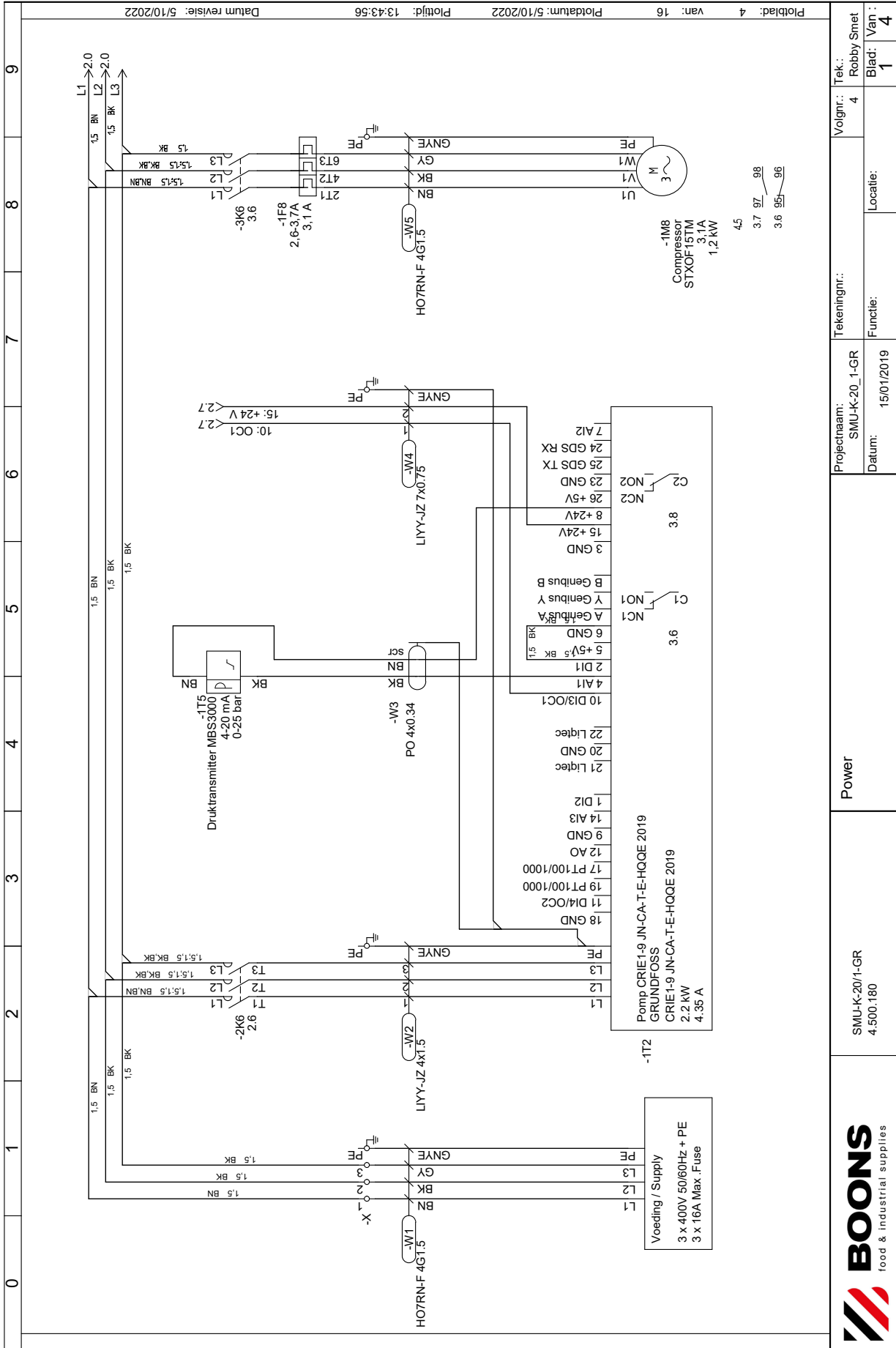
Kleurcodering bedrading	
Nullleider	blauw
0V/AC	donkerblauw
12V/AC	rood
24V/AC	rood
48V/AC	rood
230V/AC / L1	bruin
400V/AC	zwart
0V/DC	wit
12V/DC	oranje
24V/DC	oranje
48V/DC	oranje
P.O.T. V.R.U.	transparant
0-20 mA	paars
0-10 V	grijs
Aarde	geel/groen
	G.N.V.E

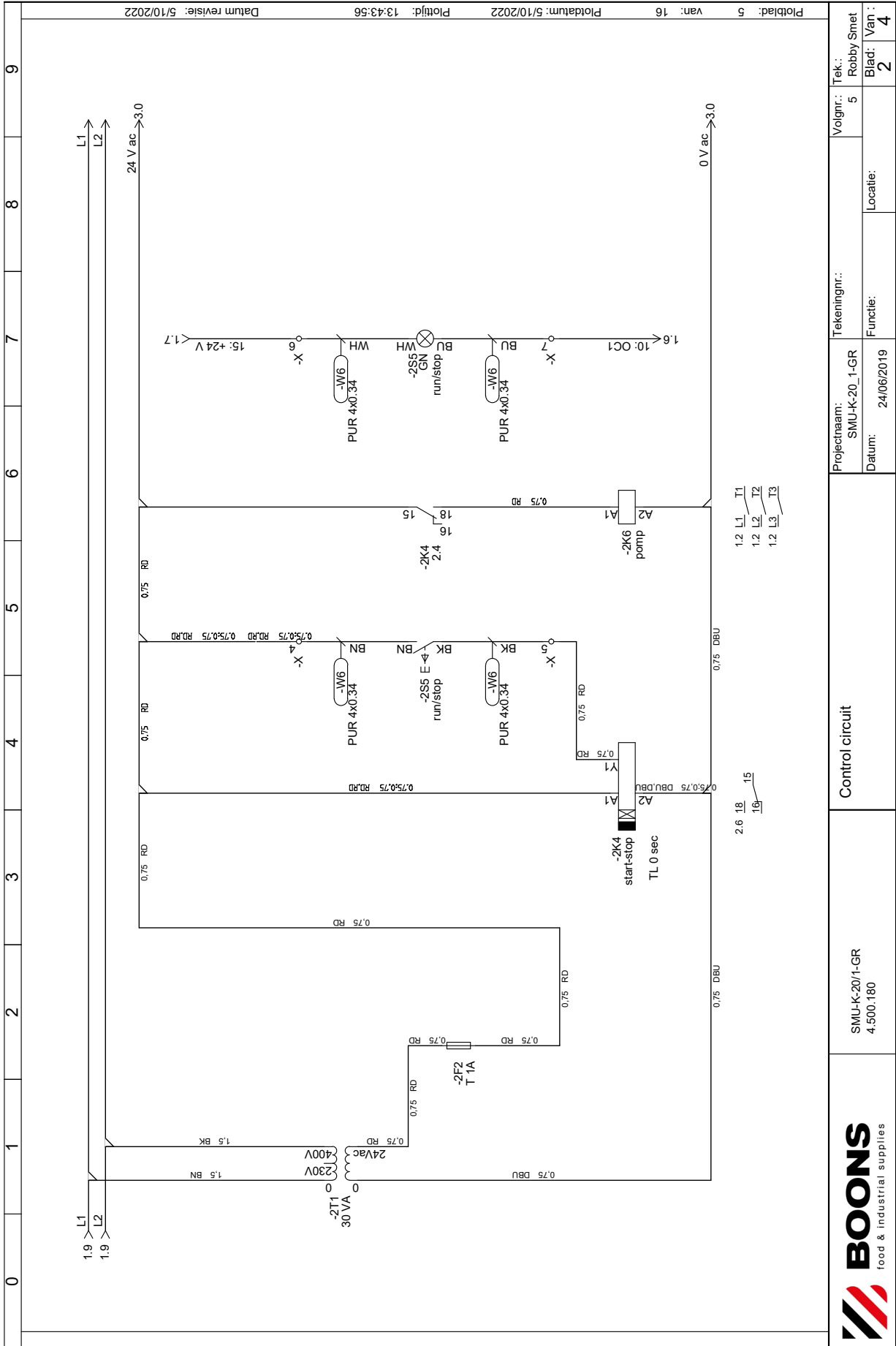


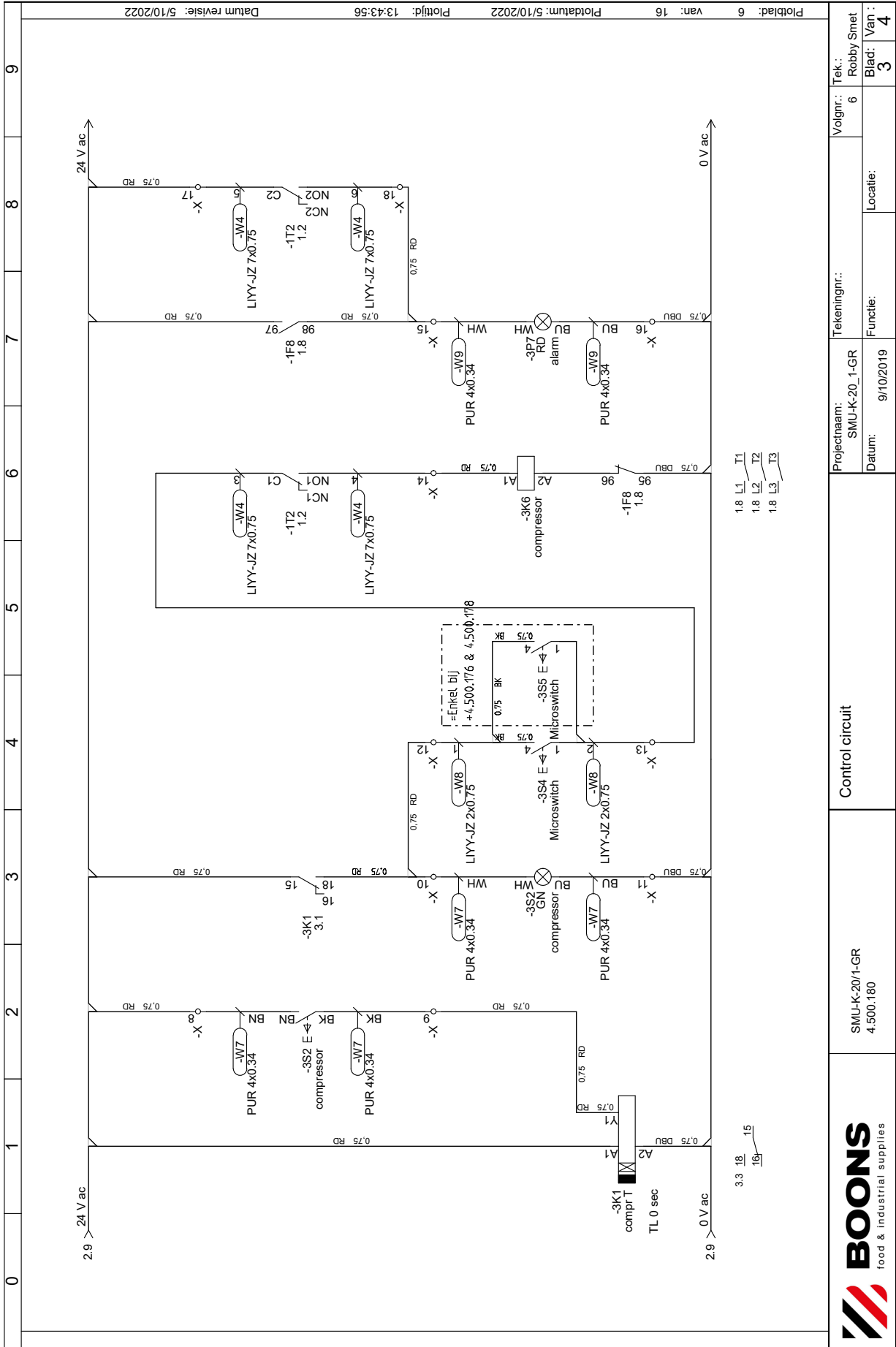
SMU-K-20/1-GR
4.500.180

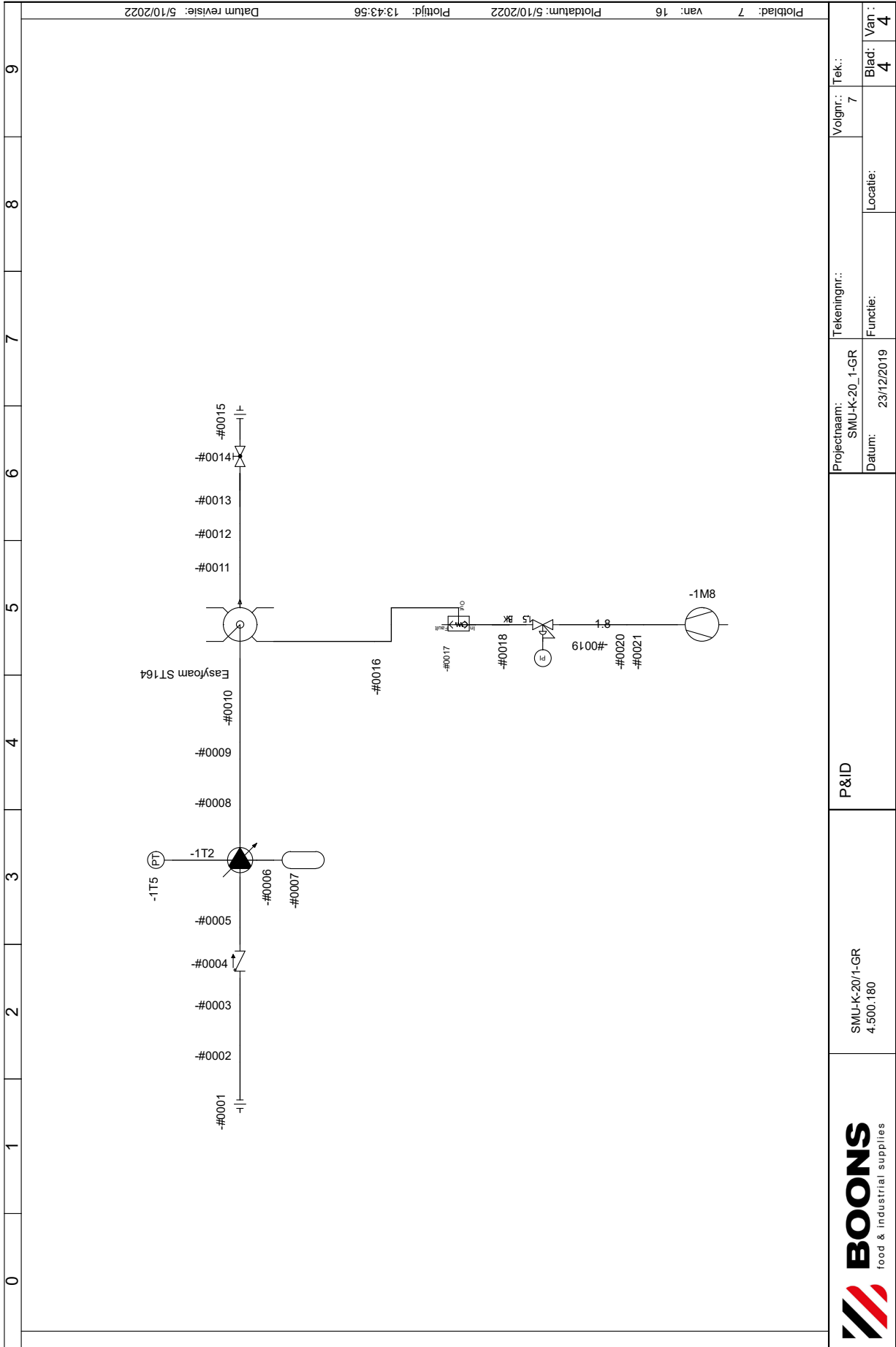
Normtekens
Kleurcodering











Plotblad: 7 van: 16 Plotdatum: 5/10/2022 Plottijd: 13:43:56 Datum revise: 5/10/2022

 BOONS food & industrial supplies	SMU-K-20/1-GR 4.500.180	P&ID	Projectnaam: SMU-K-20_1-GR Datum: 23/12/2019	Tekeningnr.:	Volgnt.: 7	Tek.:
				Functie:	Locatie:	Blad: 4 Van: 4

CE DECLARATION OF CONFORMITY



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Manufacturer BOONS FIS nv
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BOONS FIS declares entirely under its sole responsibility that the products SMU, to which this statement relates, are in compliance with the directives of the EC member states concerning the following directives:

Machinery Directive 2006/42/EG

- EN 12100-1
- EN 12100-2

Simon Boons
Business Manager BOONS FIS nv/bv

