



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.

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



	Description	SMU	SMU-K
1	Signal push-button for air Compressed air adapter	0 1	1 0
2	Signal light	1	1
3	Signal push-button for pump on/off	1	1
4	Selector switch	1	1
5	Adapter 3/4" in for water supply	1	1
6	Adapter V-part 1/2" out for water drainage	1	1
7	M20 SS nut for connection of electric cable 5M - 400V	1	1
8	Chemicals line foam 0,95m - transparent	1	1
9	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).

Before switching on the push-button (3), you should flush thoroughly by opening the water supply and open the gun, to ensure that all the air has been escaped out of the pump. When all the air has been purged, switch on the pump 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.

The suction hoses must be cleaned by rinsing with water after each usage. (You can do this with the help of a bucket with water).

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 (waterfilter is not standaard delivered by Boons, on charge of the customer).

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 to 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.

Preventive Maintenance

- Replace the transparent and yellow suction hoses and its stainless steel suction filters that go into the chemistry cans.
- Cleaning the venturi section, possibly replacing the chemical injectors.
- Dosing nozzles must be replaced yearly. These wear out over time due to the chemicals used and then the dosing is often no longer accurate.
- Check the pressure accumulator, it should be filled to 8 bar. Measure by using a pressure gauge provided for this purpose. If required, you can replace it.

- The back-flow preventer must be replaced yearly.
- BOONS FIS recommends 2-yearly replacement of the seal of the Grundfos pump.
- BOONS FIS recommends 5-yearly replacement of the chamber stack of the Grundfos pump.

Spare Parts

- See attachment (page 42)

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. (You can do this with the help of a bucket 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.



Model	Version	Article number
SMU-K-20/1-GR	FF-R (Foam ^{Air} - Foam ^{Air} - Rinse)	379403
	FD-R (Foam ^{Air} - Disinfection - Rinse)	368919
SMU-20/1-GR	FF-R (Foam ^{Air} - Foam ^{Air} - Rinse)	379410
	FD-R (Foam ^{Air} - Disinfection - Rinse)	374613

TABLE OF TECHNICAL DETAILS

Model	SMU-20/1-GR-FD-R	SMU-20/1-GR-FF-R	SMU-20/1-K-GR-FD-R	SMU-20/1-K-GR-FF-R
Number of pressure regulators	1 regulator for F only	1 regulator for both F's	1 regulator for F only	1 regulator for both F's
USER INFORMATION				
Rinsing nozzle *	15.25			
Disinfection nozzle *	40.20			
Foam nozzle *	80.150			
Consumption with rinsing nozzle	25 l/min at 20 bar			
Consumption with disinfection nozzle	10 l/min at 20 bar	N/A	10 l/min at 20 bar	N/A
Consumption with foam nozzle	11 l/min at 20 bar			
Dosage range **	1% - 5,4% at 20 bar			
Standard dosage, disinfection **	0,95% at 20 bar	N/A	0,95% at 20 bar	N/A
Standard dosage, foam **	4% at 20 bar			
Number of users	1			
Recommended length of cleaning hose	10 metres min. - 25 metres max. Boonsjet 1/2"		10 metres min.- 25 metres max.Boonsjet 1/2"	
PUMP				
Type	Multistage centrifugal			
Material	Stainless steel			
Brand	Grundfos			
Model	CRIE1-9			
Frequency inverter	yes			
Expansion tank	1,4 l (set to 8 bar)			
WATER CONNECTION				
Supply pressure	0,5 bar min. - 10 bar max.			
Supply flow	35 l/min min. - 40 l/min max.			
Supply temperature	3°C min. - 70°C max.			
Water inlet	3/4" inside thread BSP Nito coupling			
Water outlet	BOONS adaptor			
Operating pressure	20 bar at 4 bar pre-pressure			
COMPRESSED AIR CONNECTION				
Supply pressure	5 bar min. - 10 bar max.		N/A	
Supply flow	150 l/min		N/A	
Compressed air inlet	Push-in coupling ø 8 mm		N/A	
COMPRESSOR				
Built-in	no		yes	
Type	-		oil-free	
ELECTRICAL CONNECTION				
Engine power	2,2 kW		3,5 kW	
Power cable section	4G1.5 at 5 metres (longer distances require cable calculation)			
Power cable length	5 m			
Amperage	3 x 16 A			
Voltage	3 x 400 V + PE			
Frequency	50/60 Hz			
Control voltage	24 VAC			
DIMENSIONS & WEIGHT				
Dimensions L x W x D	708 x 1051 x 1046 mm			
Weight	116 kg		126 kg	
ARTICLE NUMBER	374613	379410	368919	379403
* This is the nozzle size advised by BOONS FIS. Nozzles are not included with the satellite and must be ordered separately.				
** These dosage values depend on the cleaning agent used				



Grundfos pump 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:

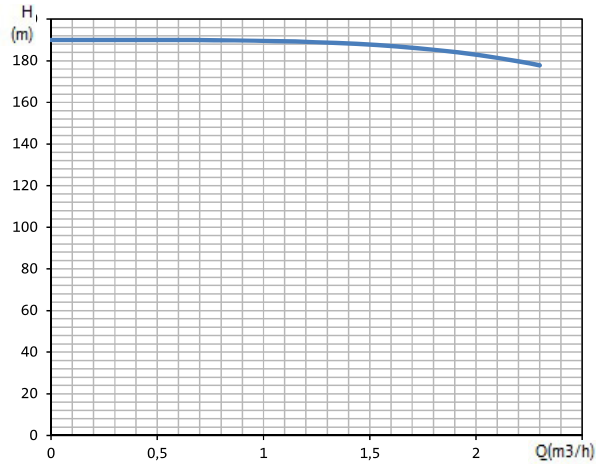
Liquid temperature range:	-20 to 120 °C
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Motor data:

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:

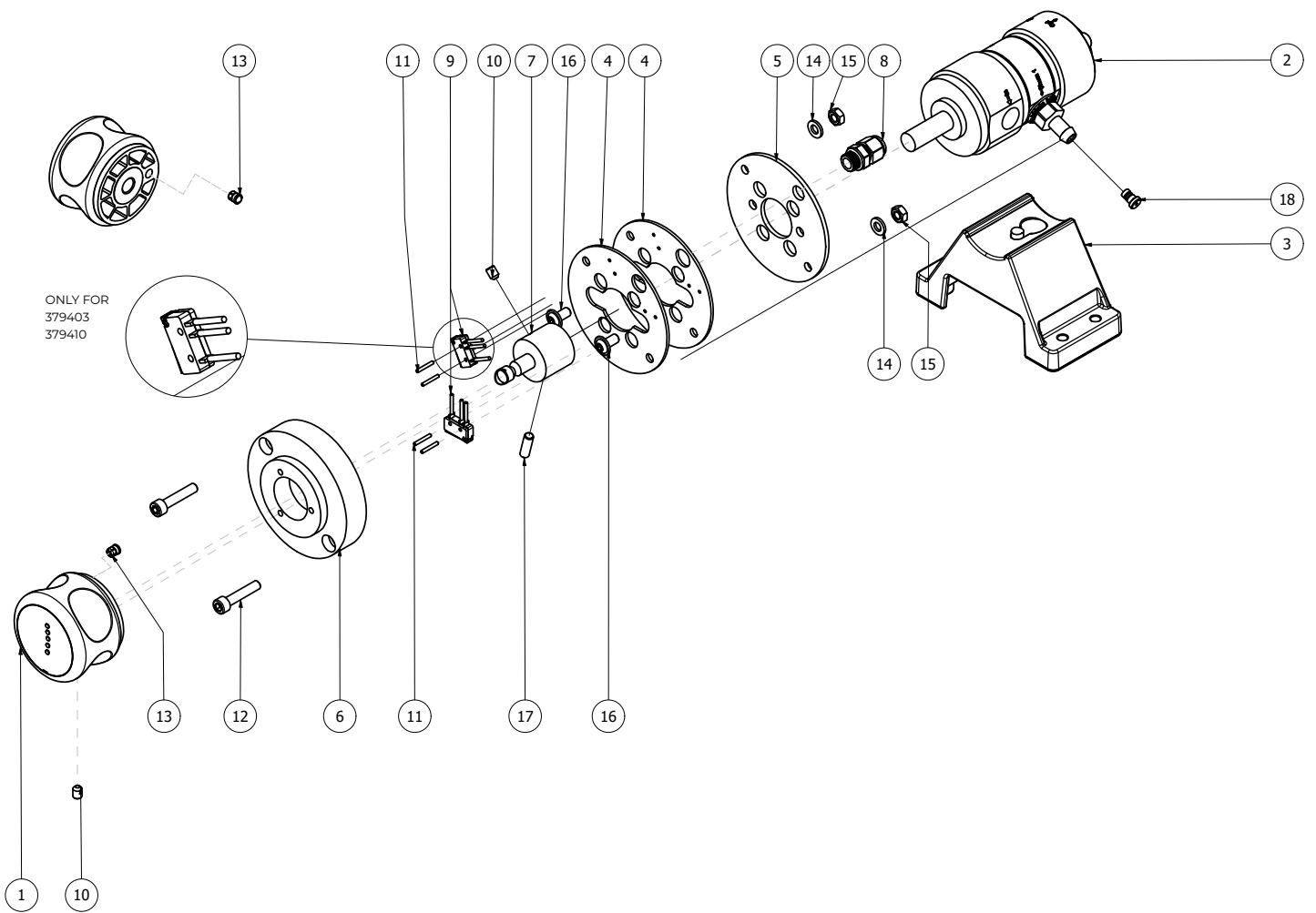
Remarks:

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.



COMPLETE TECHNICAL DRAWING

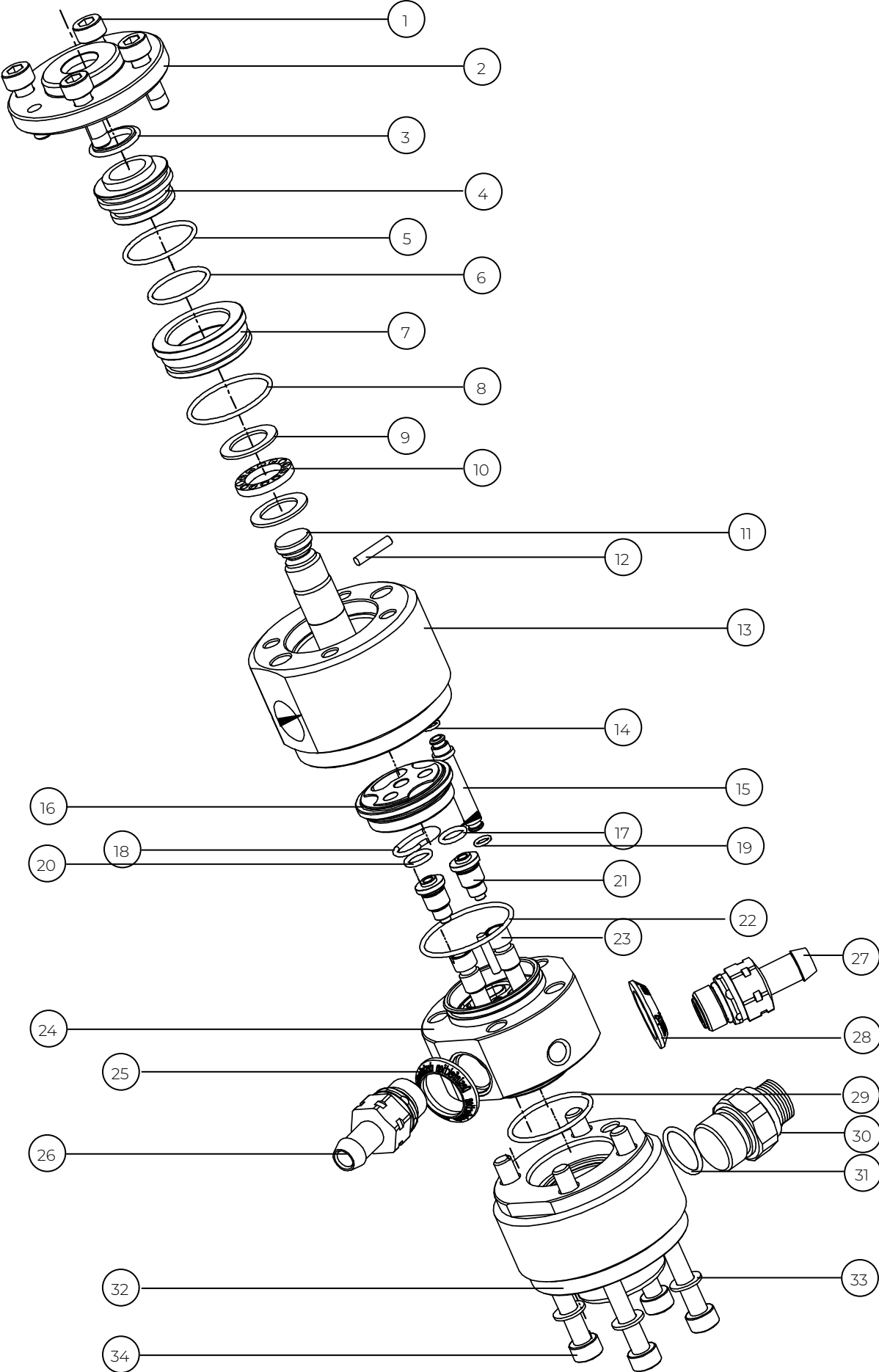
Switch



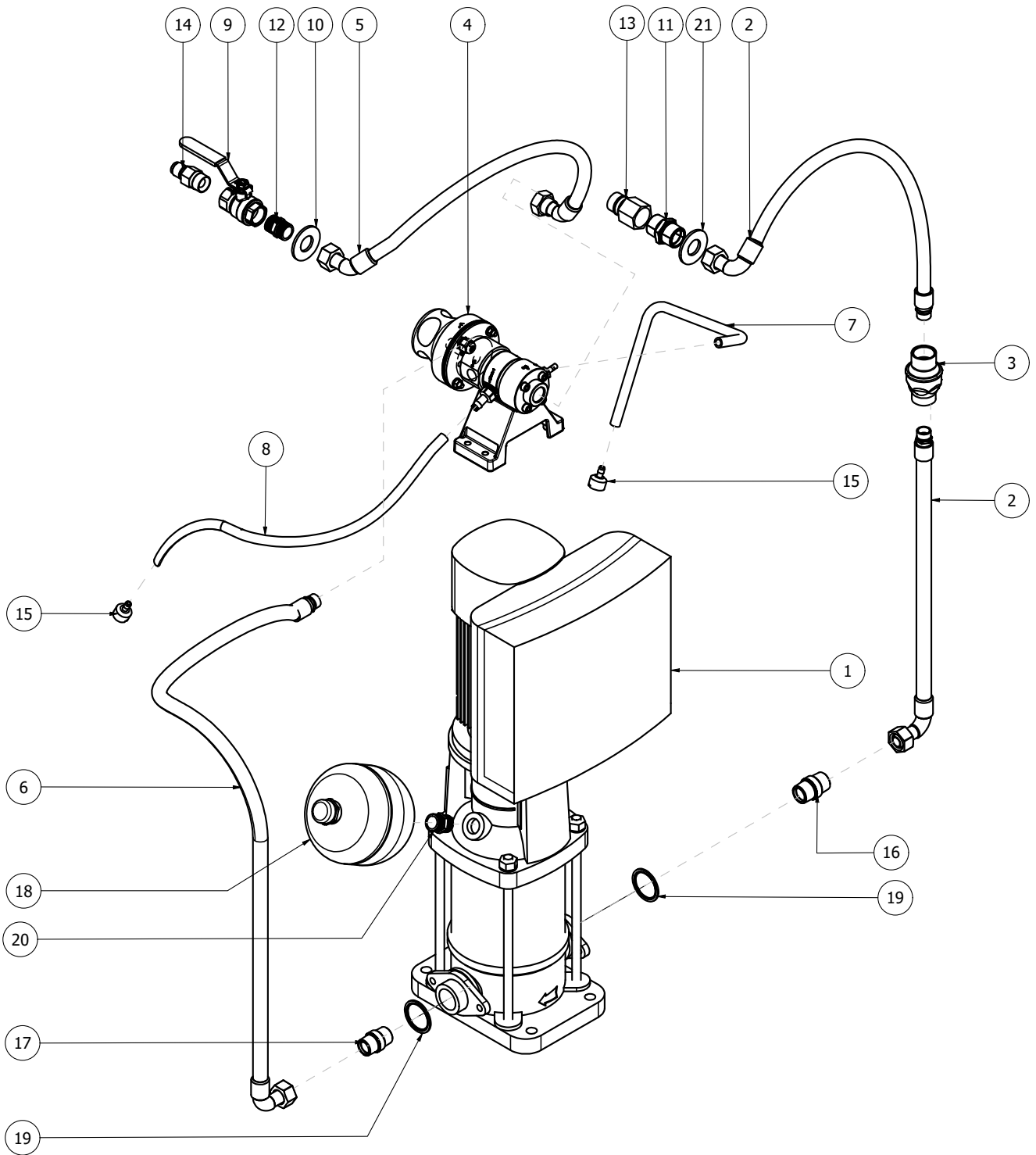
PARTS LIST SWITCH			
ITEM	QTY	ART. N°	DESCRIPTION
1	1	373920	Toggle knob around EGK.63-SST-10-C3-SOFT M6 logo special
2	1	343046	ST164 injector with compressed air 2.1/2.8 - 2.1/2.8
3	1	372442	Bracket for ST164 foam disinfection injector
4	2	373890	Mounting plate for detection switch gland connection
5	1	373883	Mounting plate micro switch
6	1	373906	Housing detection switch
7	1	373913	Shaft intermediate piece ST-164
8	1	156656	Gland M12 PVC
9	2	373982	Microswitch lever snap-action 1 x changeover 5A solder
10	2	373951	Adjusting screw stainless steel M6x8
11	4	373968	Cylindrical pin stainless steel 2x14mm
12	2	374057	Hexagon bolt stainless steel M6x30
13	1	376730	GN 614.5-6-KU - spring-loaded plunger
14	2	119900	Round washer stainless steel M6
15	2	120159	Nut stainless steel M6
16	2	358057	Hexagon bolt stainless steel M6x12
17	1	373944	Cylindrical pin stainless steel 6x18mm
18	1	870515	Dosing nozzle 1.0 stainless steel (standard for foam)
18	1	689891	Dosing nozzle 0.5 stainless steel (standard for disinfection)



Foaming and disinfection injector



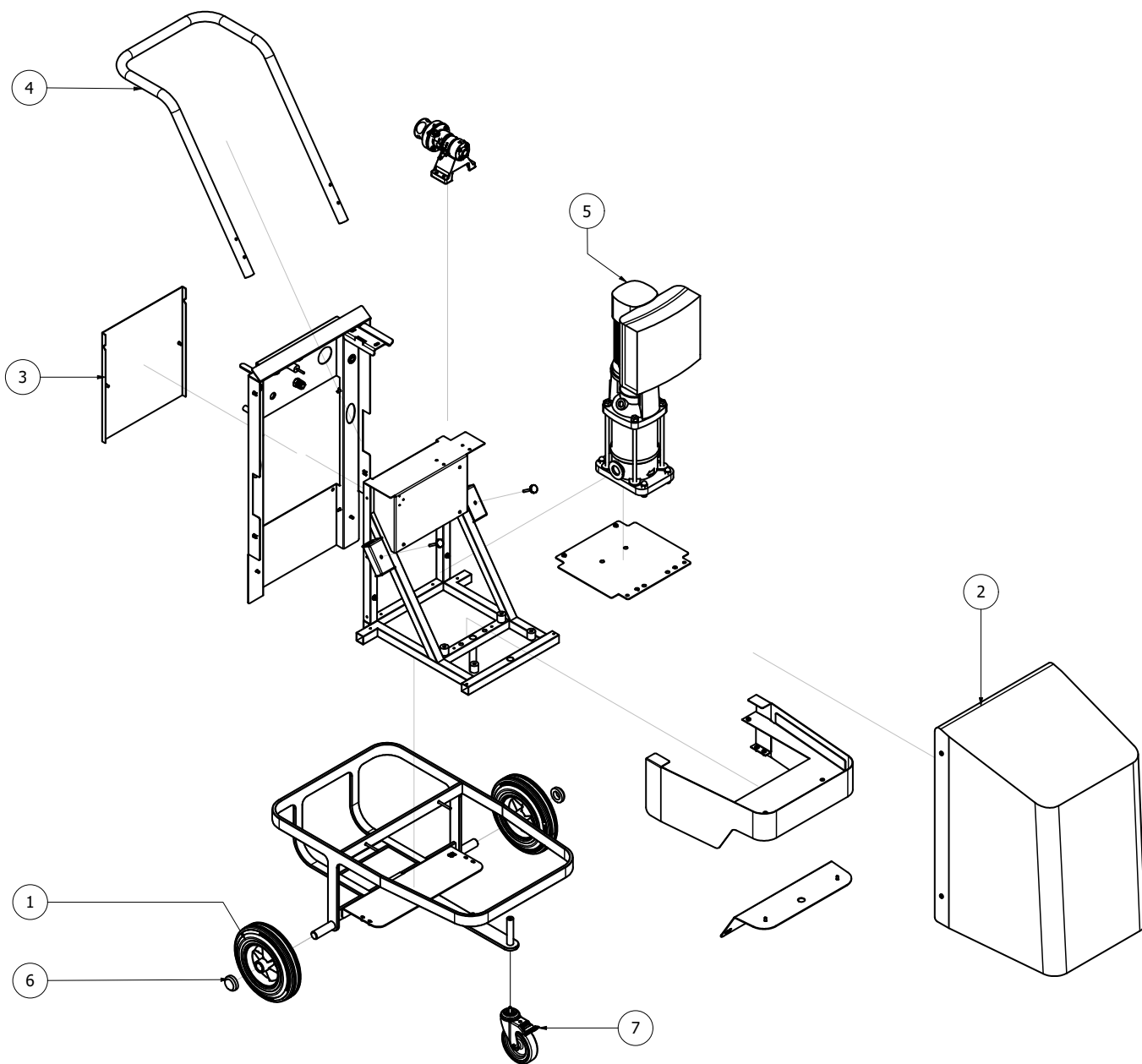
PARTS LIST INJECTOR		
ITEM	ART. N°	DESCRIPTION
1	376228	Securing bolt M6x20
2	376235	Hood injector
3	376327	Two-piece PTFE seal
4	376242	Piston
5	376303	O-ring 23x1.5 viton
6	376310	O-ring 19x1.5 viton
7	376259	Spacer ring
8	376297	O-ring 27x1.5 EPDM 90Shore
9	376280	Pressure ring
10	376440	TM Lower
11	376266	Pivot piece
12	376211	Pin DIN7/3x14
13	376273	Injector upper part
14	376198	O-ring 4x1 EPDM 80Shore
15	376204	Control channel
16	376365	Sealing ring Peek
17	376433	O-ring 7x1.5 FEPM 90Shore
18	376358	O-ring 13x1.5 FEPM 90Shore
19	376198	O-ring 4x1 EPDM 80Shore
20	376433	O-ring 7x1.5 FEPM 90Shore
21	378567	Injector nozzle 2.1
22	376341	O-ring 30x1.5 EPDM 90Shore
23	378604	Counter nozzle 2.8
24	376334	Center part injector
25	376389	Suction marking yellow (disinfection)
26	689891	Dosing nozzle 0.5 stainless steel
26	376167	Chemistry supply, including check valve
27	870515	Dosing nozzle 1.0 stainless steel
27	376167	Chemistry supply, including check valve
28	376372	Blue suction marking (foam)
29	376297	O-ring 27x1.5 EPDM 90Shore
30	378536	Compressed air supply valve, including non-return valve
31	376495	O-ring 15x1.5
32	376457	Injector part
33	376181	Washer VS-6
34	376174	Bolt M6x70



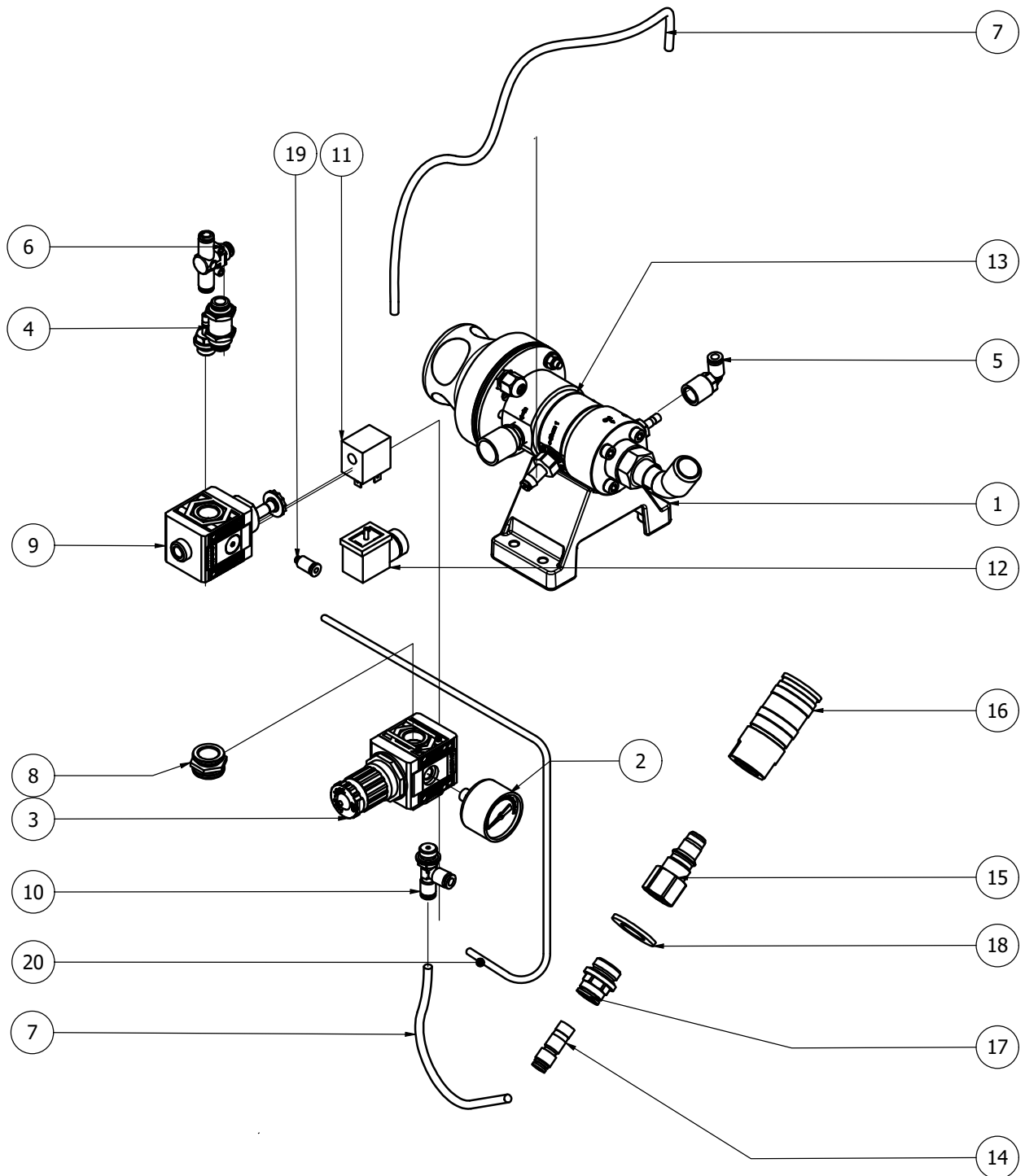
PARTS LIST SMU-20/1-GR

ITEM	QTY	ART. N°	DESCRIPTION
1	1	373760	Grundfos CRIE1-9 JN-CA-T-E-HQQE 3x380-500 50HZ
2	2	373845	Inox flexible 437.5mm stainless steel 316 1xtube 3/4"- 1xbin 90° 3/4" (SMU)
3	1	133244	Check valve stainless steel 304 3/4" Viton
4	1	343046	ST164 compressed air injector 2.1/2.8 - 2.1/2.8
5	1	373869	Inox Flexible 415mm RVS316 1xbin 45° 1/2"- 1xbin 90° 1/2" (SMU)
6	1	373852	Inox Flexible 780mm RVS316 1xbin 1/2"- 1xbin 90° 1/2" (SMU/SWU)
7	1	343411	Hose 6x12mm Transparent - Required length: 0,9m
8	1	352857	Hose 6x12mm Yellow - Required length: 1,5m
9	1	357708	Ball valve BOONS 1/2" stainless steel 60bar
10	2	119955	Washer stainless steel M20
11	1	146756	Nipple HD stainless steel 3/4" male-male BSPP
12	2	144967	Nipple 1/2" stainless steel
13	1	354127	Adapter stainless steel 3/4" bin Nito
14	1	306997	Adapter stainless steel 1/2" male SU
15	2	308588	Suction filter stainless steel 6.5mm
16	1	147050	Adapting nipple HD stainless steel 1" x 3/4" male - male BSPP
17	1	147043	Adapting nipple HD stainless steel 1" x 1/2" male - male BSPP
18	1	492623	Pressure accumulator 210bar 0.7ltr (set on 8 bar)
19	2	378758	Multi-seal sealing ring 1" stainless steel
20	1	144967	Nipple stainless steel 1/2" pipe-pipe
21	1	599591	Washer stainless steel M27

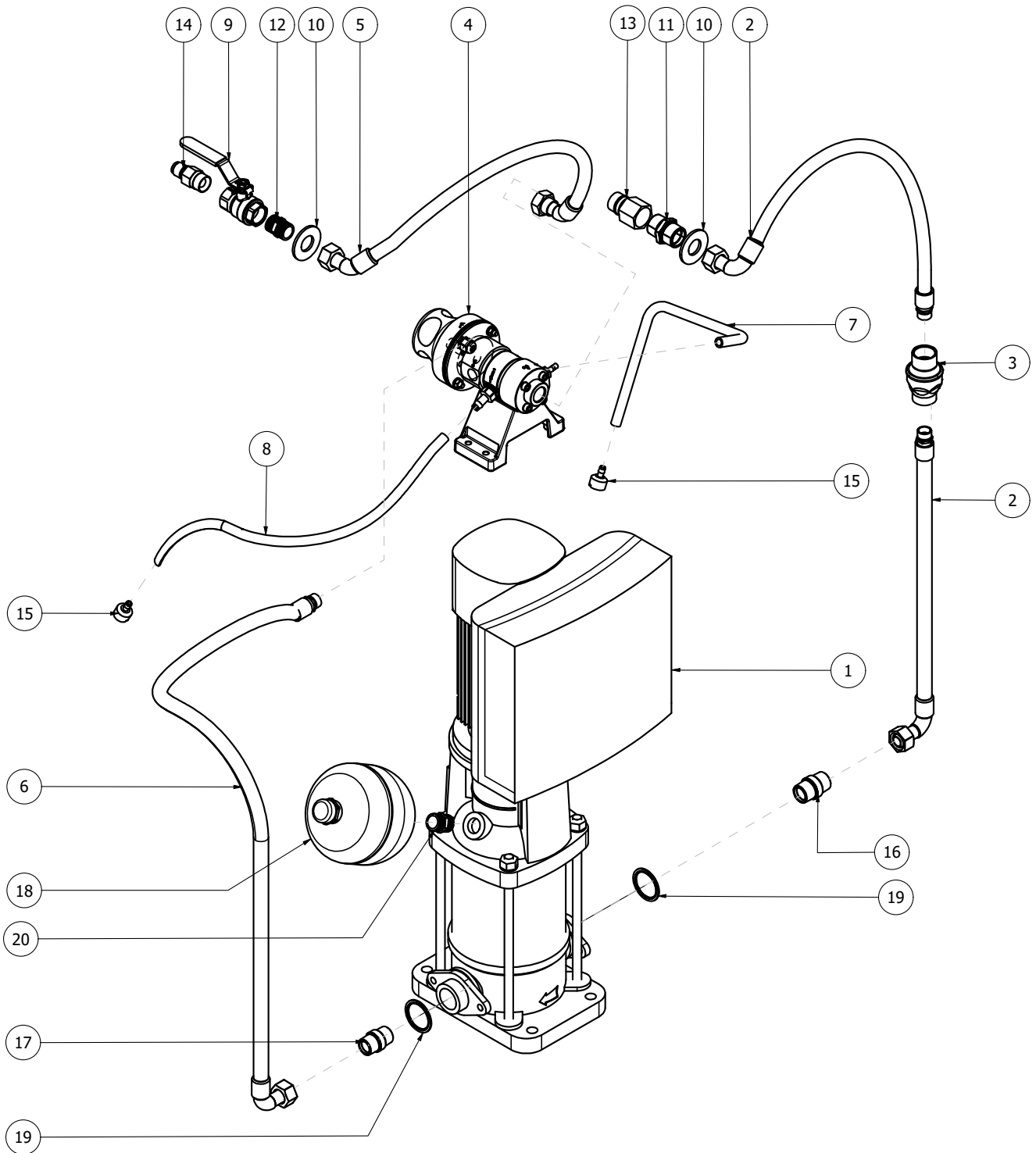




PARTS LIST SMU-20/1-GR			
ITEM	QTY	ART. N°	DESCRIPTION
1	2	236669	Wheel 50- 400 mm
2	1	375771	Cover mobile foam unit SMU
3	1	375764	Cover back plate mobile foam unit SMU
4	1	375757	Push handle mobile foam unit SMU (tube frame SMU)
5	1	373760	Grundfos CRIE1-9 JN-CA-T-E-HQQE 3x380-500 50HZ
6	2	742352	Hubcap chromed 20mm
7	1	306042	Wheel 50-150 mm

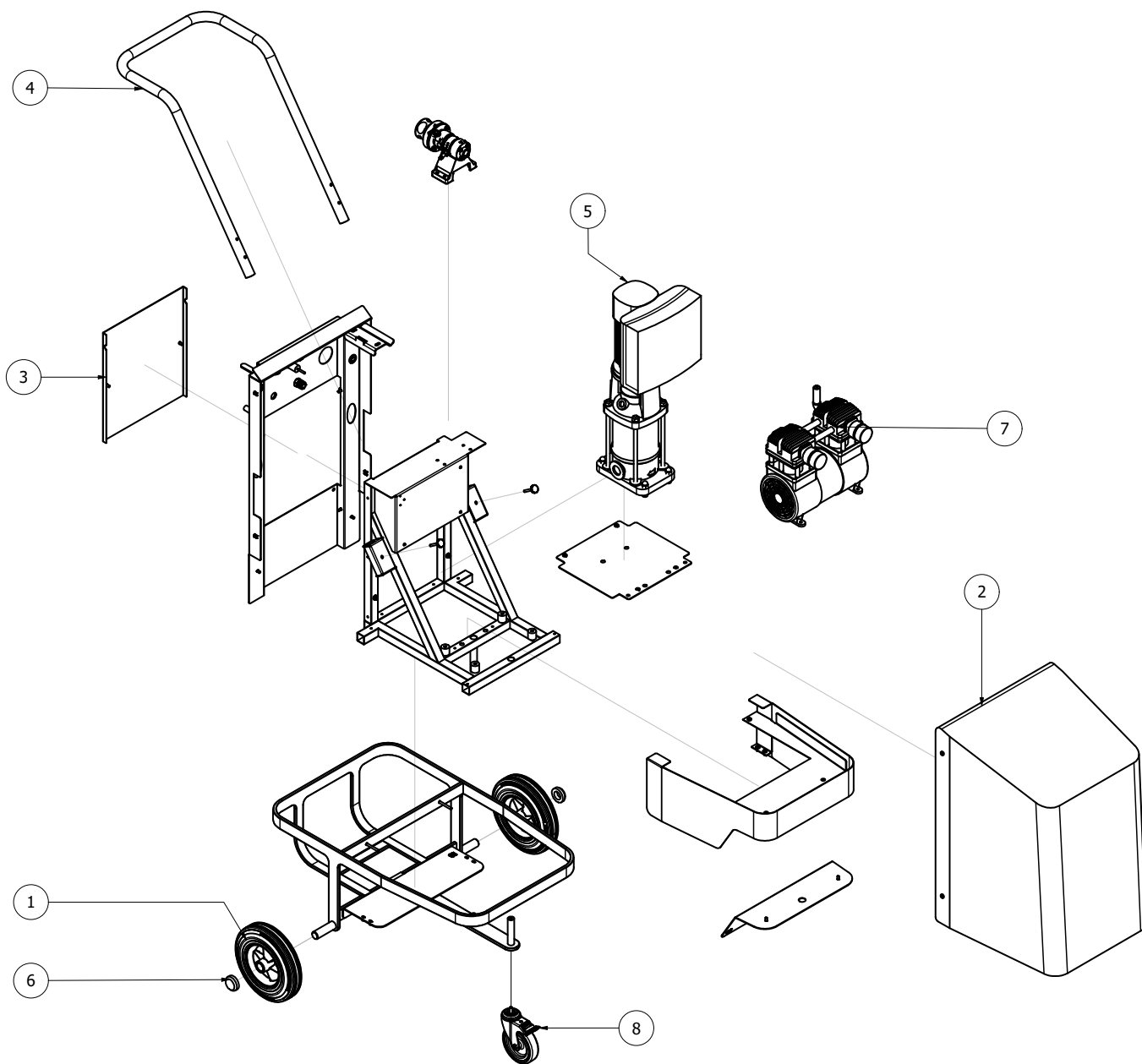


PARTS LIST SMU-20/1-GR			
ITEM	QTY	ART. N°	DESCRIPTION
1	1	372442	Bracket ST164
2	1	357739	Manometer 40mm 1/8" rear 0-10 bar
3	1	357722	Pressure control valve 561_R14 8bar
4	1	373975	Thread adapter R6 diam.6 - 1/4"
5	1	373791	Compressed air plug-in coupling elbow 600mm 1/4" bin
6	1	308373	Back flow preventer indicator 6mm
7	3	370257	PUN-H-6x1 hose blue / m - Required length: 0,3m
7	3	370257	PUN-H-6x1 hose blue / m - Required length: 0,8m
8	1	370080	Coupler set SY1
9	1	376891	V3V SY1 ELPN. ASS. Z.A.
10	1	376907	RL38 T-INSCRIB.ZY 6X1/4 ROTARY
11	1	376037	Coil L22 24V AC diam.8 2W
12	1	369596	Plug 22 LED indication 24V
13	1	343046	ST164 compressed air injector 2.1/2.8 - 2.1/2.8
14	1	376150	Adapter diam.12 gt; diam.6
15	1	358514	Internal plug-in nipple BSP 300 1/2 312
16	1	358453	Plug-in coupling BSP 300 1/2 302
17	1	376143	Compressed air plug-in coupling diam.12 x 1/2" pipe
18	1	119955	Washer stainless steel M20
19	1	378338	Straight screw-in coupling diam.4 x M5
20	1	278765	PUN-H-4x1 hose blue /m - Required length (0,2m)



PARTS LIST SMU-K-20/1-CR

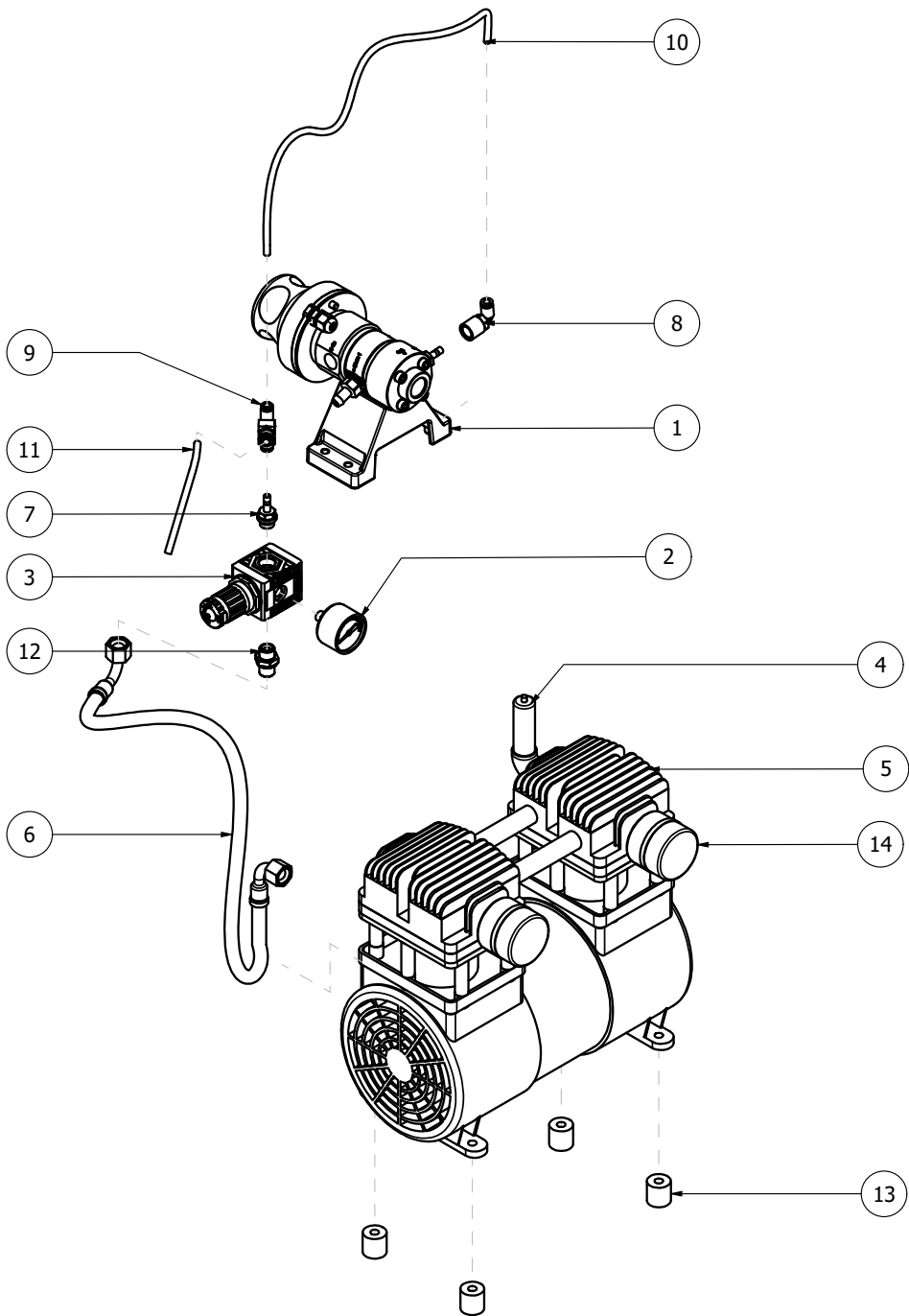
ITEM	QTY	ART. N°	DESCRIPTION
1	1	373760	Grundfos CRIE1-9 JN-CA-T-E-HQQE 3x380-500 50HZ
2	2	373845	Inox Flexible 437.5mm stainless steel 316 1xtube 3/4"- 1xbin 90° 3/4" (SMU)
3	1	133244	Check valve stainless steel 304 3/4" Viton
4	1	343046	ST164 compressed air injector 2.1/2.8 - 2.1/2.8
5	1	373869	Inox Flexible 415mm RVS316 1xbin 45° 1/2"- 1xbin 90° 1/2" (SMU)
6	1	373852	Inox Flexible 780mm RVS316 1xbin 1/2"- 1xbin 90° 1/2" (SMU/SWU)
7	1	343411	Hose 6x12mm Transparent - Required length: 0,9m
8	1	352857	Hose 6x12mm Yellow - Required length: 1,5m
9	1	357708	Ball valve BOONS 1/2" stainless steel 60bar
10	2	119955	Washer stainless steel M20
11	1	146756	Nipple HD stainless steel 3/4" male-male BSPP
12	2	144967	Nipple 1/2" stainless steel
13	1	354127	Adapter stainless steel 3/4" bin Nito
14	1	306997	Adapter stainless steel 1/2" male SU
15	2	308588	Suction filter stainless steel 6.5mm
16	1	147050	Adapting nipple HD stainless steel 1" x 3/4" male - male BSPP
17	1	147043	Adapting nipple HD stainless steel 1" x 1/2" male - male BSPP
18	1	492623	Pressure accumulator 210bar 0.7ltr (set on 8 bar)
19	2	378758	Multi-seal sealing ring 1" stainless steel
20	1	144967	Nipple stainless steel 1/2" pipe-pipe
21	1	599591	Washer stainless steel M27




PARTS LIST SMU-20/1-GR

ITEM	QTY	ART. N°	DESCRIPTION
1	2	236669	Wheel 50- 400 mm
2	1	375771	Cover mobile foam unit SMU
3	1	375764	Cover back plate mobile foam unit SMU
4	1	375757	Push handle mobile foam unit SMU (tube frame SMU)
5	1	373760	Grundfos CRIE1-9 JN-CA-T-E-HQQE 3x380-500 50HZ
6	2	742352	Hubcap chromed 20mm
7	1	373807	Compressed air compressor 7bar 190ln 1200W (incl. stainless steel hose) 3x400V/50Hz
8	1	306042	Wheel 50-150 mm

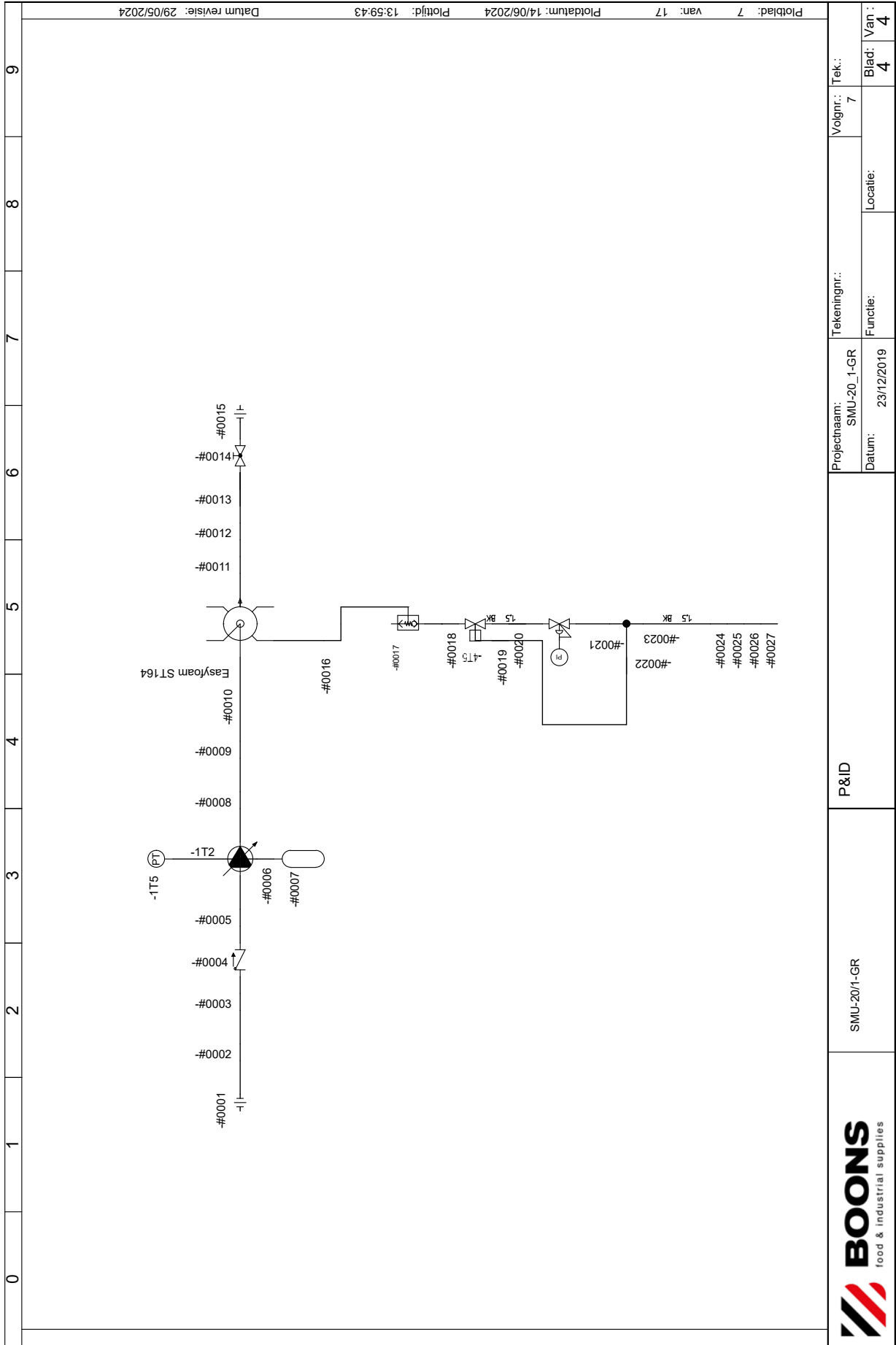




PARTS LIST SMU-K-20/1-GR			
ITEM	QTY	ART. N°	DESCRIPTION
1	1	372435	ST164 foam disinfection injector stainless steel without compressed air
2	2	357739	Manometer 40mm 1/8" rear 0-10 bar
3	1	357722	Pressure control valve 561_R14 8bar
4	2	374873	Control valve for STXOF15
5	1	373807	Compressed air compressor 7bar 190ln 1200W (incl. stainless steel hose) 3x400V/50Hz
6	1	374866	Stainless steel flexible for STXOF15
7	1	373975	Thread adapter R6 diam.6 - 1/4"
8	1	373791	Compressed air plug-in coupling elbow 600mm 1/4" bin
9	1	308373	Back flow preventer indicator 6mm
10	1	370257	PUN-H-6x1 hose blue / m - Required length: 0,7m
11	1	370257	PUN-H-6x1 hose blue / m - Required length: 0,9m
12	1	145957	Nipple HD 1/4" male-male BSPP
13	4	374880	Shock absorber for STXOF15 (set 4 pieces)
14	2	374897	Inlet filter for STXOF15

0	Z (Gereserveerd voor toekomstige standaardisatie)	<table border="1"> <tr> <th colspan="2">Kleurcodering bedrading</th> </tr> <tr> <td>Nullleider</td> <td>blauw</td> </tr> <tr> <td>0VAC</td> <td>donkerblauw</td> </tr> <tr> <td>12VAC</td> <td>rood</td> </tr> <tr> <td>24VAC</td> <td>rood</td> </tr> <tr> <td>48VAC</td> <td>rood</td> </tr> <tr> <td>230VAC/L1</td> <td>bruin</td> </tr> <tr> <td>400VAC</td> <td>zwart</td> </tr> <tr> <td>0VDC</td> <td>wit</td> </tr> <tr> <td>12VDC</td> <td>oranje</td> </tr> <tr> <td>24VDC</td> <td>oranje</td> </tr> <tr> <td>48VDC</td> <td>oranje</td> </tr> <tr> <td>P.O.T.V.R.U.</td> <td>transparant</td> </tr> <tr> <td>0-20 mA</td> <td>paars</td> </tr> <tr> <td>0-10 V</td> <td>grijs</td> </tr> <tr> <td>Aarde</td> <td>geel/groen</td> </tr> <tr> <td></td> <td>GN.YE</td> </tr> </table>	Kleurcodering bedrading		Nullleider	blauw	0VAC	donkerblauw	12VAC	rood	24VAC	rood	48VAC	rood	230VAC/L1	bruin	400VAC	zwart	0VDC	wit	12VDC	oranje	24VDC	oranje	48VDC	oranje	P.O.T.V.R.U.	transparant	0-20 mA	paars	0-10 V	grijs	Aarde	geel/groen		GN.YE	Y (Gereserveerd voor toekomstige standaardisatie) X Verbinden van objecten. Bijvoorbeeld: contactpen, connector, klem, klemmenstroken, meetpunt, hub	1	W Leiden of transporteren van energie, signalen of producten van de ene plaats naar de andere Bijvoorbeeld: informatiebus, kabels, leidingen, optische geleider	V Verwerken (behandelen) van product materiaal (inclusief voor- en nabehandeling). Bijvoorbeeld: elektrofilter, wasmachine, verpakkingsmachine, palletiseermachine.	2	U Handhaven objecten op een gedefinieerde positie Bijvoorbeeld: isolator, kabelgoot, montagerail	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.	3	S Omzetten van een handmatige handeling naar een signaal voor verdere verwerking. Bijvoorbeeld: bedieningsapparaten, controleschakelaar, draaischakelaar, drukknop, muis, schakelaar, toetsenbord.	R Beperken of stabiliseren stroombeweging of beweging van energie, informatie of materiaal Bijvoorbeeld: diode, diac, instelweerstand, potentiometer, spoel, tunneldiode, varicap, weerstand, zenerdiode, spanningsstabilisator.	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, sterddriehoekschakelaars, thyristor, triac, vermogenautomat, vermogensschakelaar, vermogencontactor, vermogentransistor.	4	P Presenteren van informatie Bijvoorbeeld: ampèremeter, bel, controlelamp, display, klok, LED, luidspreker, printer, signaallamp, sirene, voltmeter, wattmeter, kWh-meter, zoemer, beeldscherm (geen touchscreen).	O Mag niet toegepast worden	5	N (Gereserveerd voor toekomstige standaardisatie) M Genereren mechanische energie (draai- of lineair) Mechanische beweging voor aandrijf doeleinden. Bijvoorbeeld: motor, lineaire motor, actuator.	L (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).	6	J (Gereserveerd voor toekomstige standaardisatie) I Mag niet toegepast worden H Produceren van een nieuw soort materiaal of product Bijvoorbeeld: Shredder, menger, centrifuge, distilleerkolom, fermentatiekolom, magnetische scheider, reactor	G Initiëren van een energieolf of materiaal Bijvoorbeeld: droge cel batterij, generator, vermogen-generator, signaalgenerator, dynamo, oscillator, zonnecel, brandstofcel, voeding, UPS. Genereert signalen die als informatiedrager of referentie bron dienst doen	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, radioonstoringselementen, smeltveiligheid, vonkblusinrichtingen, Kooi van Faraday, Thermische beveiliging., Aardlekschakelaar	E Aanbieden van straling of thermische energie. (Koelen, verwarmen, verlichten, doorstralen) Bijvoorbeeld: boiler, fluorescentielamp, verwarmingstoestel, lamp, laser, verwarmingsweerstand.	8	D (Gereserveerd voor toekomstige standaardisatie) 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, rooksensoren, tachogenerator, temperatuursensor, thermisch beveiligingsrelais, videocamera.	9	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)	Uittreksel van IEC 81346-2 - Tabel 1: CODE Doel of taak van object	Projectnaam: SMU-20_1-GR Tekeningnr.: Tek.: Robby Smet Volgnr.: 2 Blad: 2 Van: 2
	Kleurcodering bedrading																																																																	
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Datum: 11/04/2017 Functie: Locatie:	Projectnaam: SMU-20_1-GR Tekeningnr.: Tek.: Robby Smet Volgnr.: 2 Blad: 2 Van: 2																																																																	
Normtekens Kleurcodering SMU-20/1-GR																		 BOONS food & industrial supplies																																																
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SMU-20/1-GR

P&ID

Projectnaam: SMU-20_1-GR

Tekeningnr.: 7

Tek.: 4

Datum: 23/12/2019


Locatie: (blank)

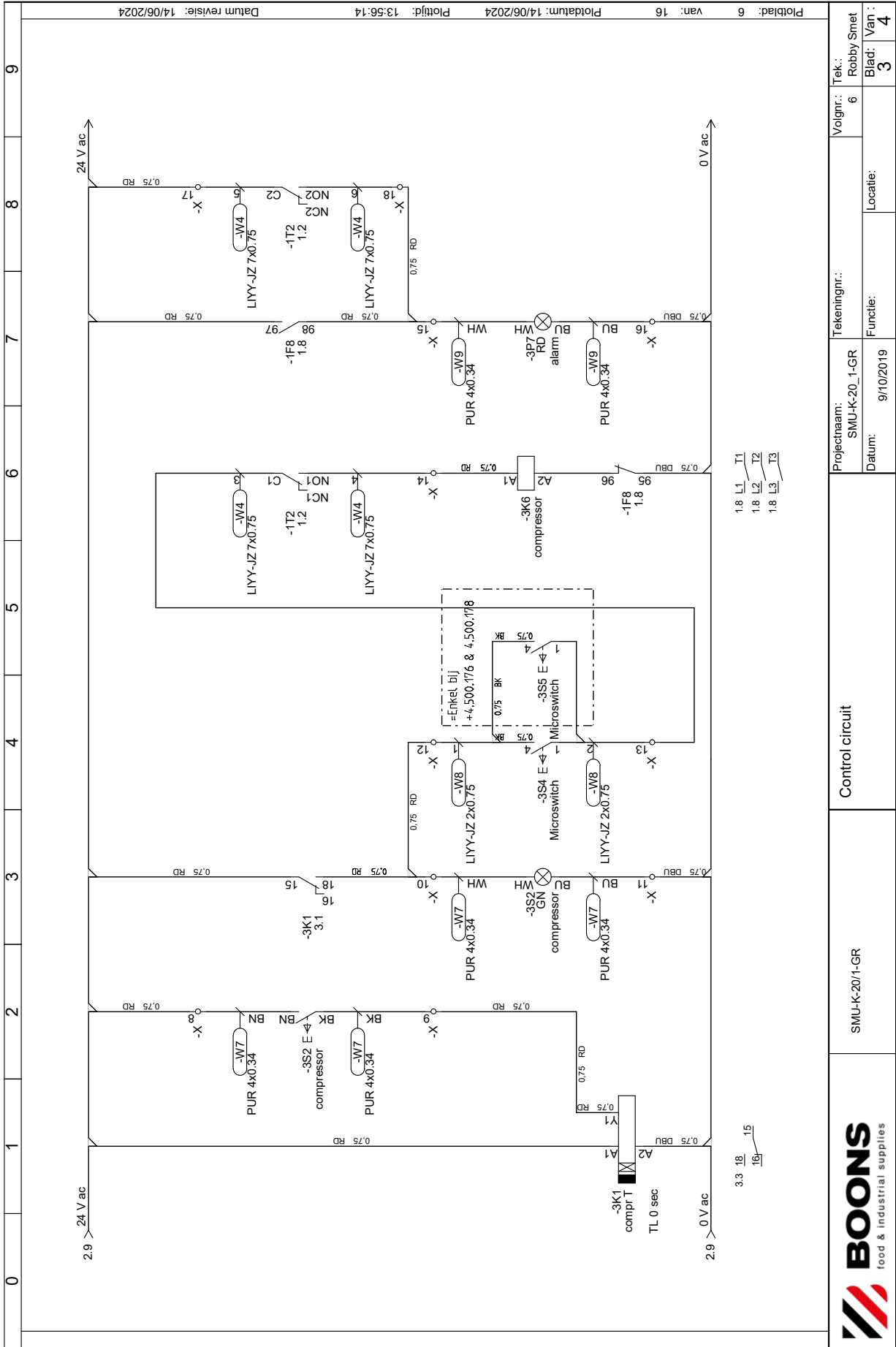
Blad: 4

Van: 4



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<p>Type: SMU-K-20/1-GR</p> <p>Serienummer:</p> <p>Klant:</p>									
<p>BOONS food & industrial supplies</p> <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>Klantgegevens: Klant</p> <p>3 x 400 V + PE, 16 A Max. Fuse 3.5 kW 24V AC 2020</p> <p>Voeding Vermogen Stuurspanning Bouwjaar Software</p> <p>Telefoon Fax E-mail</p> <p>Hoogste paginanummer 4 Aantal pagina's 16 Laatste wijziging 8/05/2024 Laatste wijziging door Plotdatum 14/06/2024</p> <p>Installatieplaats Bijzonderheden</p> <p>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</p>									
<p>BOONS food & industrial supplies</p> <p>SMU-K-20/1-GR</p> <p>Voorblad</p> <p>Projectnaam: SMU-K-20_1-GR Datum: 11/04/2017</p> <p>Tekeningnr.: Functie: Locatie:</p> <p>Volgnr.: 1 Tek.: Robby Smet Blad: 1 Van: 2</p>									
<p>Plotblad: 1 Van: 16 Plotdatum: 14/06/2024 Plottijd: 13:56:14 Datum revisie: 8/05/2024</p>									

0	<p>Uittreksel van IEC 81346-2 - Tabel 1: CODE Doel of taak van object</p> <p>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)</p> <p>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, benaderingsrelais, meetweerstand, sensor, stroomtransformator, spanningstransformator, rooksensor, tachogenerator, temperatuursensor, thermisch beveiligingsrelais, videocamera.</p> <p>C Opslaan van energie, materiaal of informatie. Bijvoorbeeld: bufferbatterij, condensator, datalogger, harde schijf, geheugen, RAM, bandopnemer, videorecorder, register.</p> <p>D (Gereserveerd voor toekomstige standaardisatie)</p> <p>E Aanbieden van straling of thermische energie. (Koelen, verwarmen, verlichten, doorstralen) Bijvoorbeeld: boiler, fluorescentielamp, verwarmingstoestel, lamp, laser, verwarmingsweerstand.</p> <p>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</p> <p>G Initiëren van een energiegolf of materiaal Bijvoorbeeld: droge cel batterij, generator, vermogensgenerator, signaalgenerator, dynamo, oscillator, zonnecel, brandstofcel, voeding, UPS. 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Bijvoorbeeld: motor, lineaire motor, actuator.</p> <p>N (Gereserveerd voor toekomstige standaardisatie)</p> <p>O Mag niet toegepast worden</p> <p>P Presenteren van informatie Bijvoorbeeld: ampèremeter, bel, controlelamp, display, klok, LED, luidspreker, printer, signaallamp, sirene, voltmeter, wattmeter, kWh-meter, zoemer, beeldscherm (geen touchscreen).</p> <p>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, sterddrievoekschakelaars, thyristor, triac, vermogensautomaat, vermogensschakelaar, vermogencontactor, vermogentransistor.</p> <p>R Beperken of stabiliseren stroombeweging of beweging van energie, informatie of materiaal Bijvoorbeeld: diode, diac, instelweerstand, potentiometer, spoel, tunneliode, varicap, weerstand, zenerdiode, spanningsstabilisator.</p> <p>S Omzetten van een handmatige handeling naar een signaal voor verdere verwerking. Bijvoorbeeld: bedieningsapparaten, controleschakelaar, draaischakelaar, drukknop, muis, schakelaar, toetsenbord.</p> <p>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, softstarter, scheidingsversterker, spanningsomvormer, stroomomzetter.</p> <p>U Handhaven objecten op een gedefinieerde positie Bijvoorbeeld: isolator, kabelgoot, montage rail</p> <p>V Verwerken (behandelen) van product materiaal (inclusief voor- en nabehandeling). Bijvoorbeeld: elektrofilter, wasmachine, verpakkingsmachine, palletseermachine.</p> <p>W Leiden of transporteren van energie, signalen of producten van de ene plaats naar de andere Bijvoorbeeld: informatiebus, kabels, leidingen, optische geleider</p> <p>X Verbinden van objecten. Bijvoorbeeld: contactpen, connector, klem, klemmenstroken, meetpunt, hub</p> <p>Y (Gereserveerd voor toekomstige standaardisatie)</p> <p>Z (Gereserveerd voor toekomstige standaardisatie)</p>	1	2	3	4	5	6	7	8	9																																		
<p>Plotblad: 2 van: 16 Plotdatum: 14/06/2024 Plottijd: 13:56:14 Datum revisie: 8/05/2024</p>																																												
<p>Projectnaam: SMU-K-20_1-GR Datum: 11/04/2017</p>																																												
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Manufacturer BOONS FIS nv
Nijverheidstraat 1
9810 Nazareth (Belgium)

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**
- **EMC Directive 2014/30/EU**
- **Low Voltage Directive 2014/35/EU**

Simon Boons
Business Manager BOONS FIS nv/bv



ATTACHMENT

RECOMMENDED SPARE PARTS			
QTY	ART. N°	DESCRIPTION	INTERVAL (YEAR)
1	343411	Hose 6x12mm Transparent - Required length: 0,9m	1
1	352857	Hose 6x12mm Yellow - Required length: 1,5m	1
2	308588	Suction filter stainless steel 6,5mm	1
1	492623	Pressure accumulator 210bar 0.7ltr (set on 8 bar)	1
1	308373	Back flow preventer indicator 6mm	1
1	689891	Dosing nozzle 0.5 stainless steel	1
1	870515	Dosing nozzle 1.0 stainless steel	1
1	378017	Grundfos pump - seal	2
1	322162	Grundfos pump - kit chamberstack CRIE 1-9	5