BOONS
food & industrial supplies

MANUAL · EN



DSW

DSW-F-1-R | DSW-FD-1-R | DSW-FF-1-R | DSW-FD-2-R | DSW-FF-2-R

BOONS FIS nv / bv	Original manual
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Congratulations on your purchase!

BOONS FIS congratulates you on your purchase of the DSW satellite 'by BOONS FIS'.

It is important that operating personnel read these instructions for use before the appliance is brought into use. BOONS FIS trusts you will enjoy using the purchased equipment with great efficiency.

Legend - Symbols in this document



Read the instructions for use



Wear face protection



Wear safety shoes



Wear gloves



Wear protective clothing



Important note



Warning

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Pressure Equipment Directive

Manufacturer

BOONS FIS nv
Nijverheidstraat 1
9810 Nazareth (Belgium)

BOONS FIS declares under its sole responsibility that the DSW products to which this declaration refers are in compliance with the directives of the EC member states concerning the following directives:

- **Pressure Equipment Directive 2014/68/EU**



Simon Boons
Business Manager BOONS FIS nv/bv

01. General

Copyright BOONS FIS

Nothing from this manual may be duplicated and/or made public in any way whatsoever without prior written permission from BOONS FIS. This also applies for the associated pictures, drawings and diagrams. BOONS FIS reserves the right to modify parts at any required time, without prior or direct notification of the buyer. The content of this publication can also be changed without prior warning.

For information concerning settings, maintenance activities 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

Attention symbols are used in this manual and on our machines. These attention symbols refer to a possible danger or point for attention. Ignoring these instructions can result in physical injury, damage to the machine or consequential damage.



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

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. The manual can be found on the BOONS FIS website by scanning the QR code on the device. 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 satellite in a responsible manner. BOONS FIS cannot be held responsible for damage as a result of incorrect use of the satellite. 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 recommendations 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.

Guarantee

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

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

The guarantee covers the replacement or repair of the defective parts. Dispatch costs, 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 guarantee. Damage caused during loading, unloading or transport and costs of repairs incurred by third parties are also not covered by the guarantee.

The guarantee also ceases to be applicable after changes/repairs/commissioning 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 decentralised satellite (DSW) is an installation that produces a water jet (with or without chemicals as desired) under pressure. The design of the satellite 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 DSW 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 conditions. Besides the instructions for use and the applicable, binding requirements relating to accident prevention in the country in which the machine is used, the approved technical rules for safe and judicious work must also be complied with. The satellite 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 BOONS FIS to guarantee the safety of the machine.

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Personal safety

For your personal safety, it is important to comply with the prescribed PPE safety equipment::



Wear face protection



Wear safety gloves



Wear safety shoes



Wear protective clothing

In case of skin penetration of the water jet under pressure, one should immediately consult a doctor. Be sure to mention the type of product that was used. In addition, one should avoid poor posture.

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02. 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 DSW is a satellite with chemical injector(s) and is connected to pressurised water, different chemicals and compressed air. The satellite has different functions (depending on the version): rinsing, foaming and disinfection.

Before installation of the appliance, each essential part must be checked for damage.

Storage

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

Store the appliance in a frost-free space.

Assembly and connection

The satellite must be assembled in such a way that it is suspended fully away from the wall by using the spacers provided, so it is easy to clean along the wall behind the satellite. See the installation drawings for correct assembly (page 5 - 14).

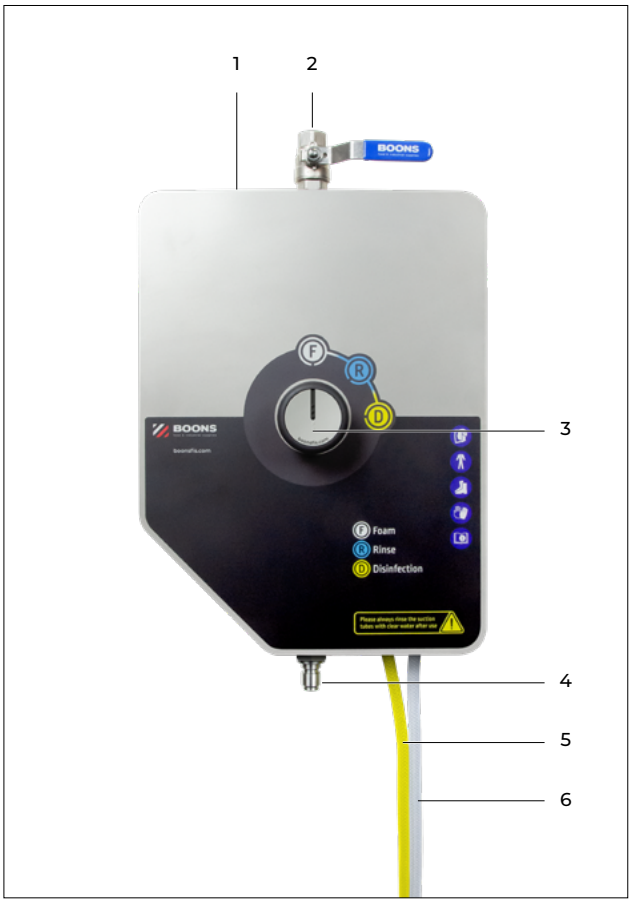
The utilities are connected after assembly of the DSW. See the diagram alongside.

- Plug the flexible plastic hose for compressed air (ø 8 mm) in the coupling provided above (1) for that purpose.
- Connect the water supply to the BOONS ball valve (1/2" BSP bin) on top of the DSW. (2)
- Connect the high-pressure hose (optional) to the outlet on the bottom of the DSW (4) using a quick-release coupling.

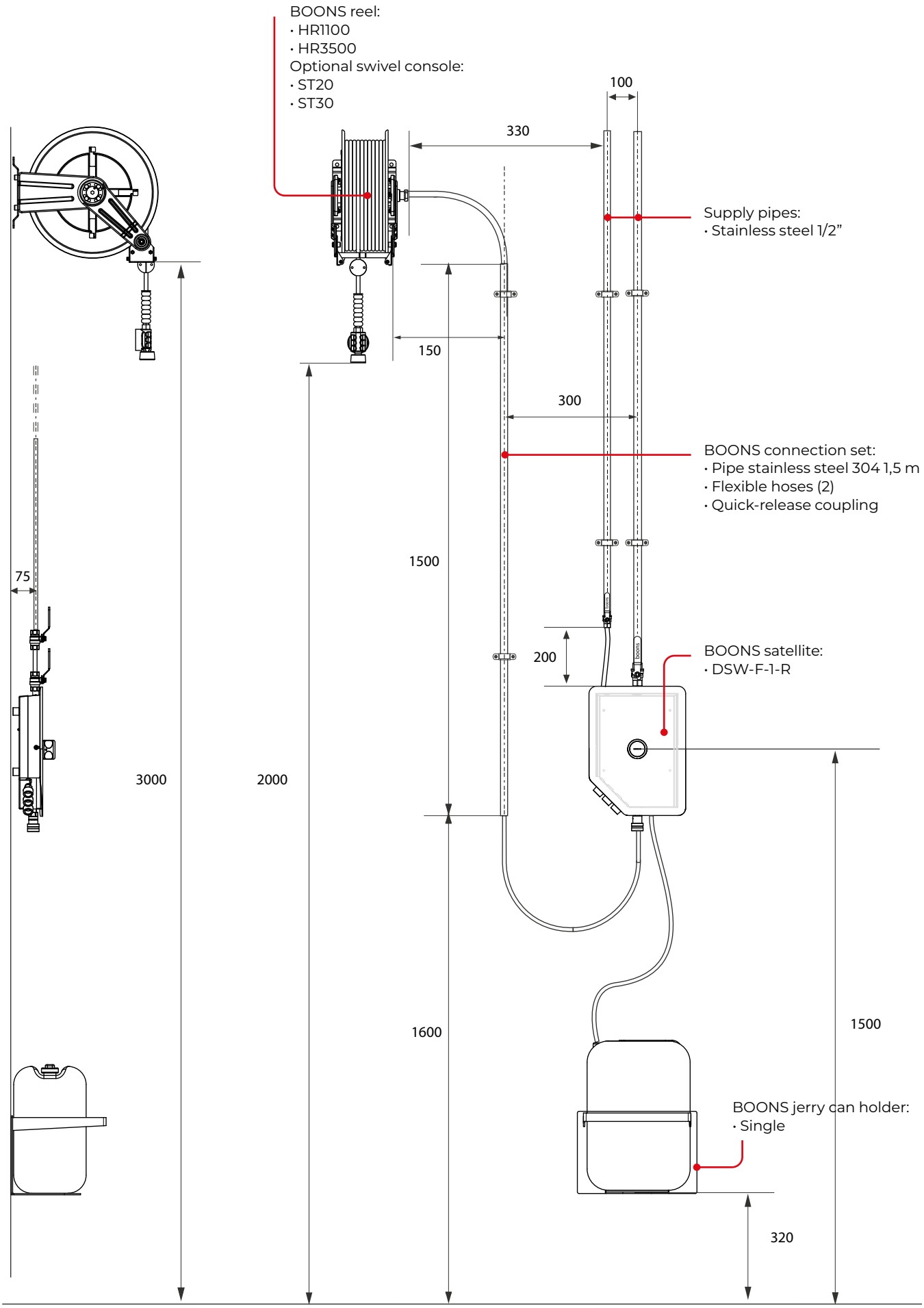
When all hoses have been connected the system can be tested.

Place the chemicals hoses (5 and 6) in the appropriate jerry can. The yellow chemicals hose (5) is for the disinfectant product, the transparent chemicals hose (6) is for the foam product.

Select the required function using the selector rotary switch (3).



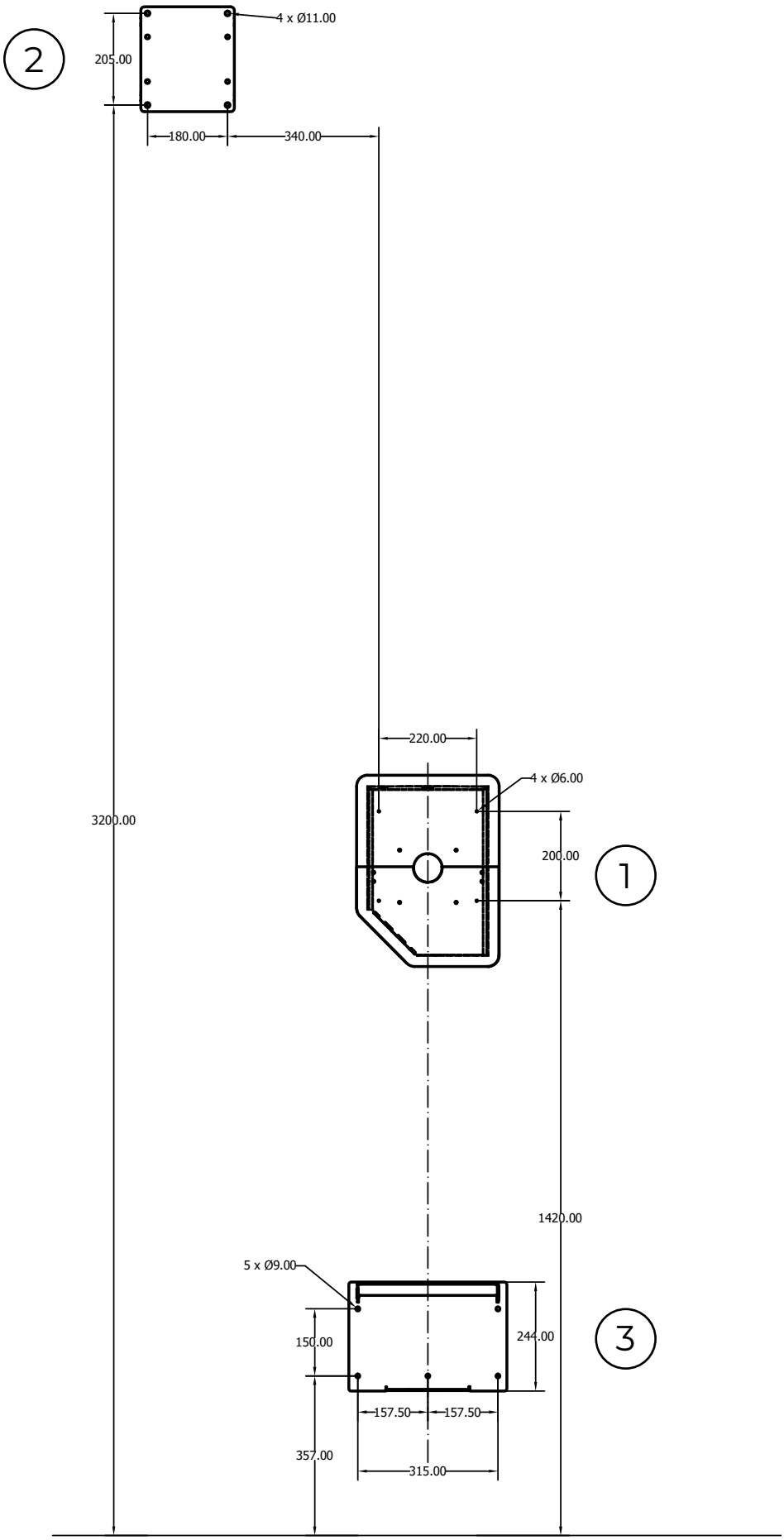
Complete DSW cleaning setup with single jerry can holder and pre-set dimensions



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Assembly of DSW with single jerry can holder

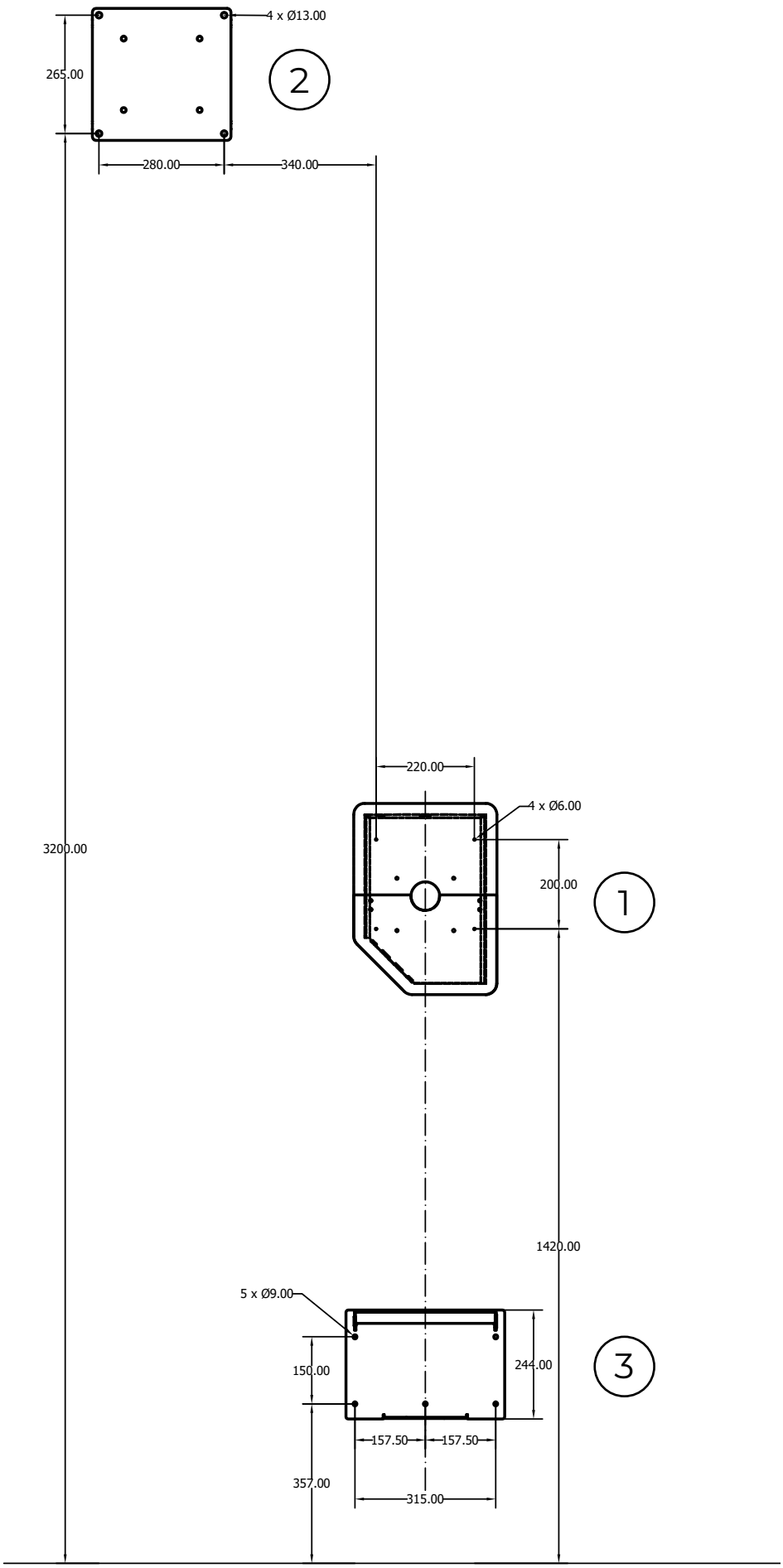
1. DSW
2. HR1100 reel
3. Single jerry can holder



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Assembly of DSW with single jerry can holder

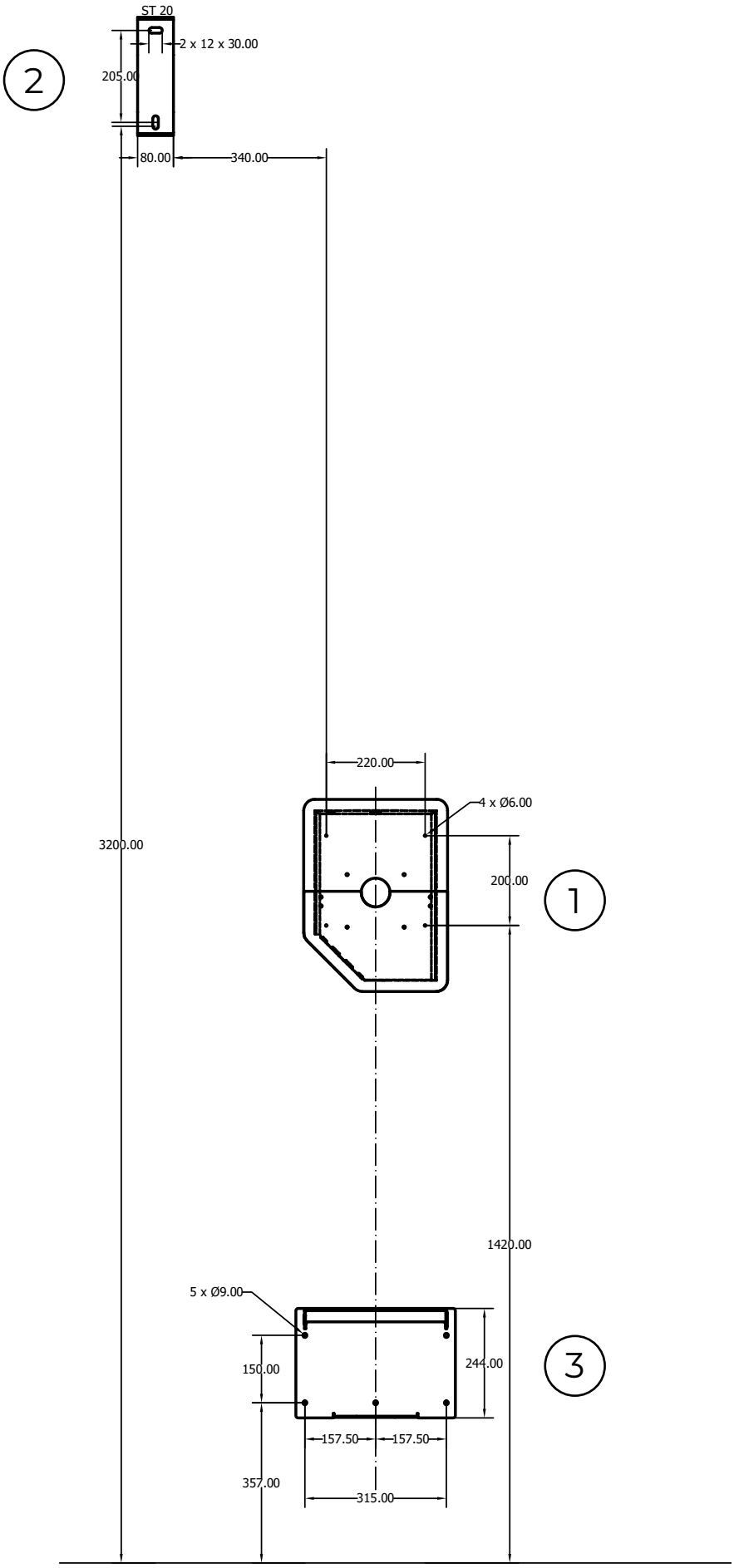
1. DSW
2. HR3500 reel
3. Single jerry can holder



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Assembly of DSW with single jerry can holder

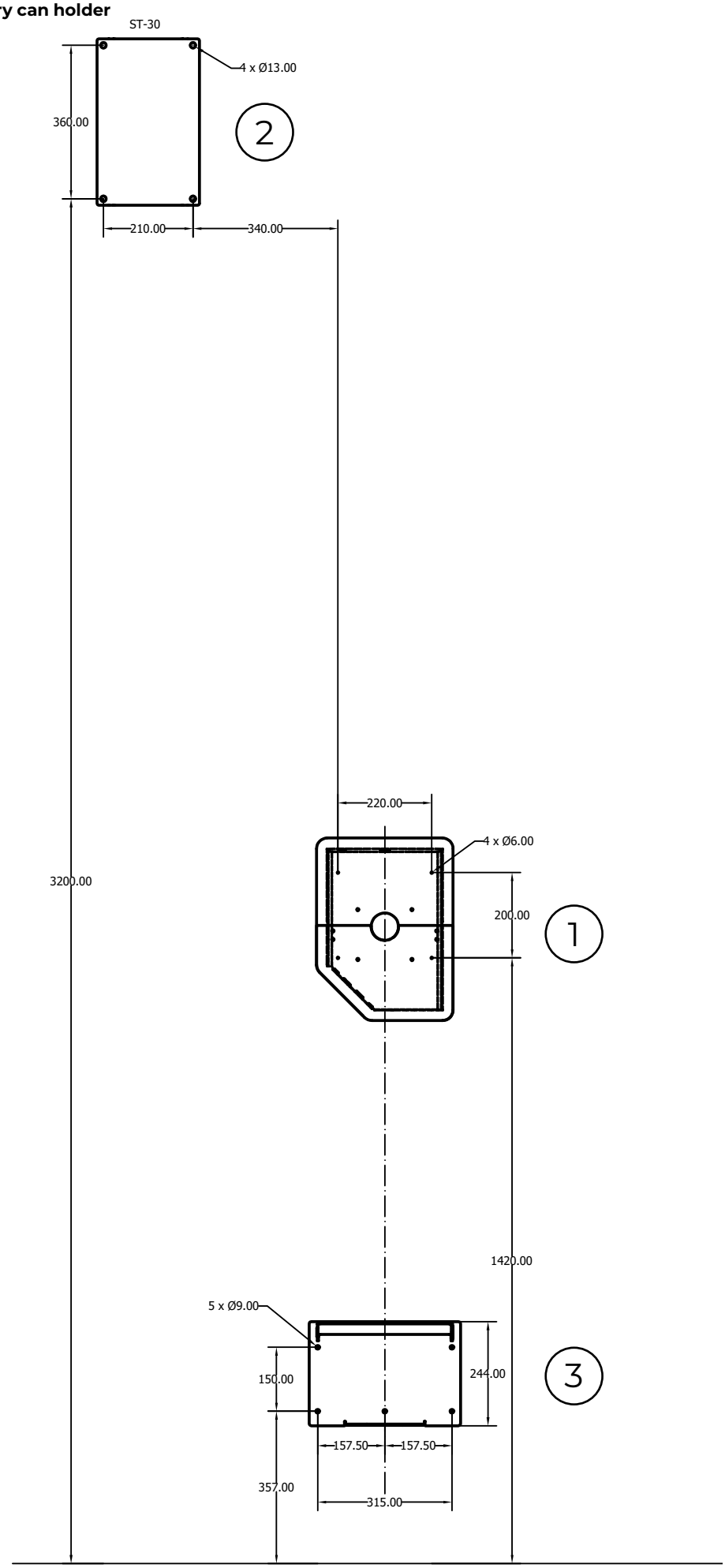
1. DSW
2. ST20 swivel console (HR1100)
3. Single jerry can holder



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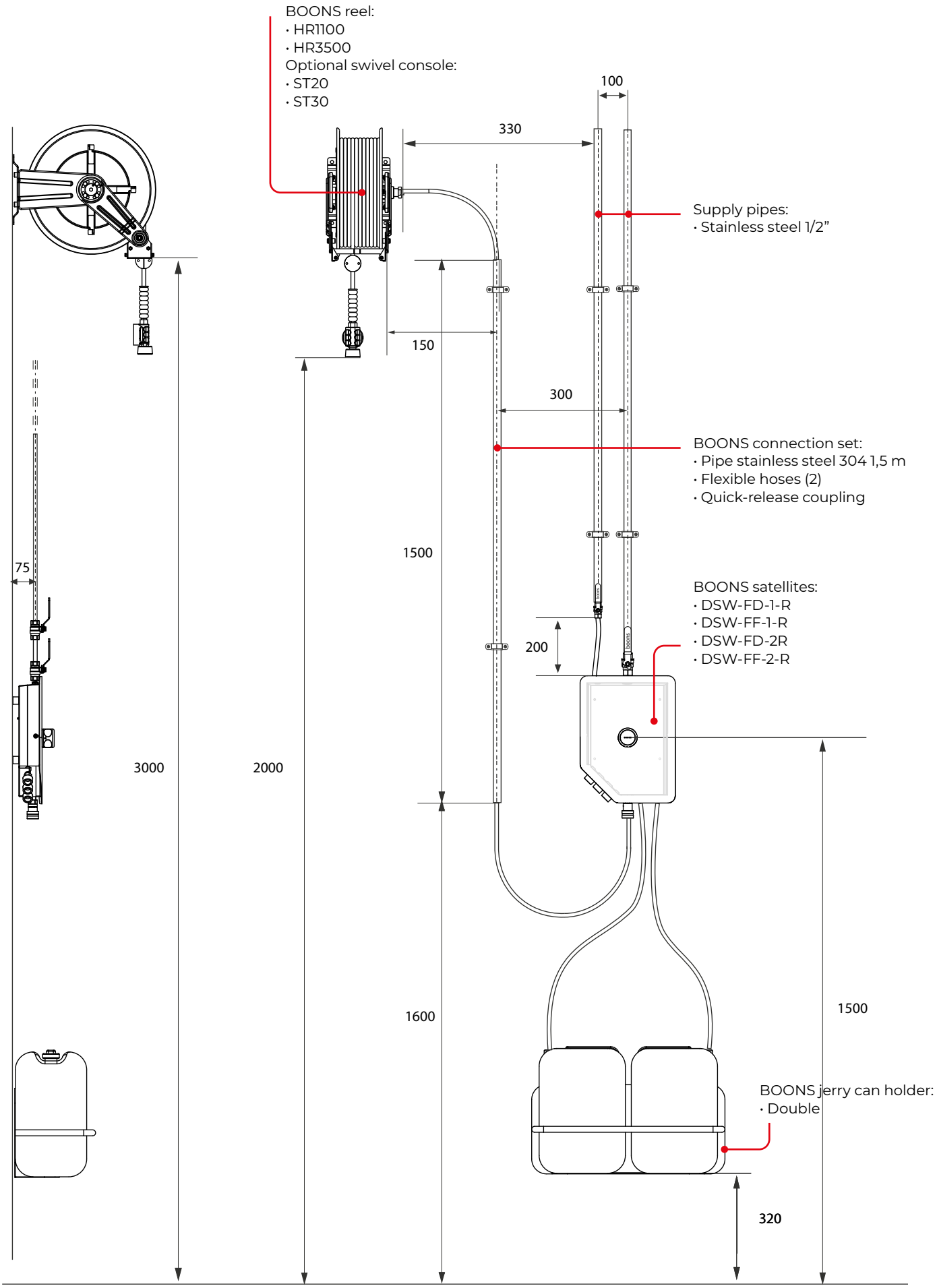
Assembly of DSW with single jerry can holder

1. DSW
2. ST30 swivel console (HR3500)
3. Single jerry can holder



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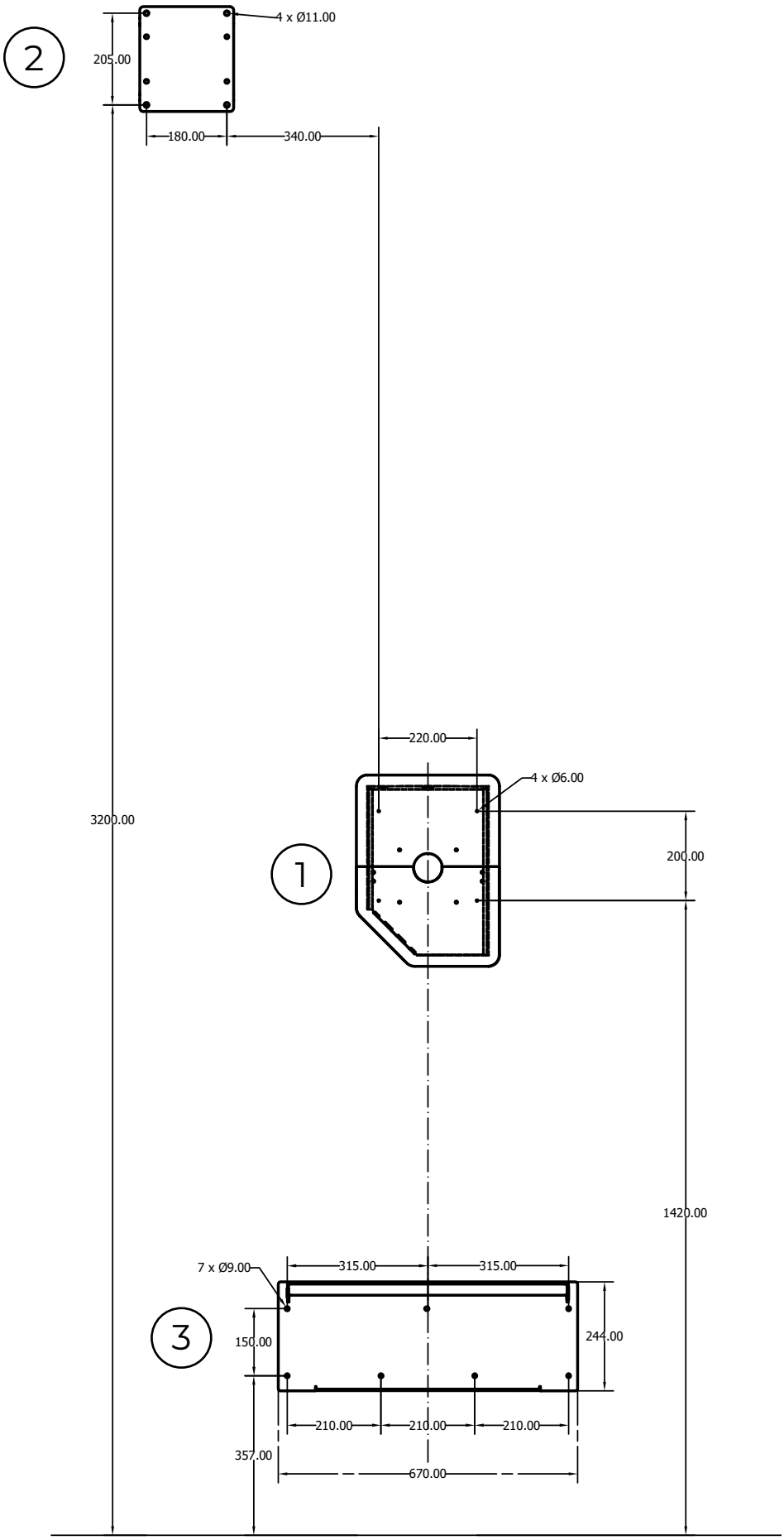
Complete DSW cleaning setup with double jerry can holder and pre-set dimensions



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Assembly of DSW with double jerry can holder

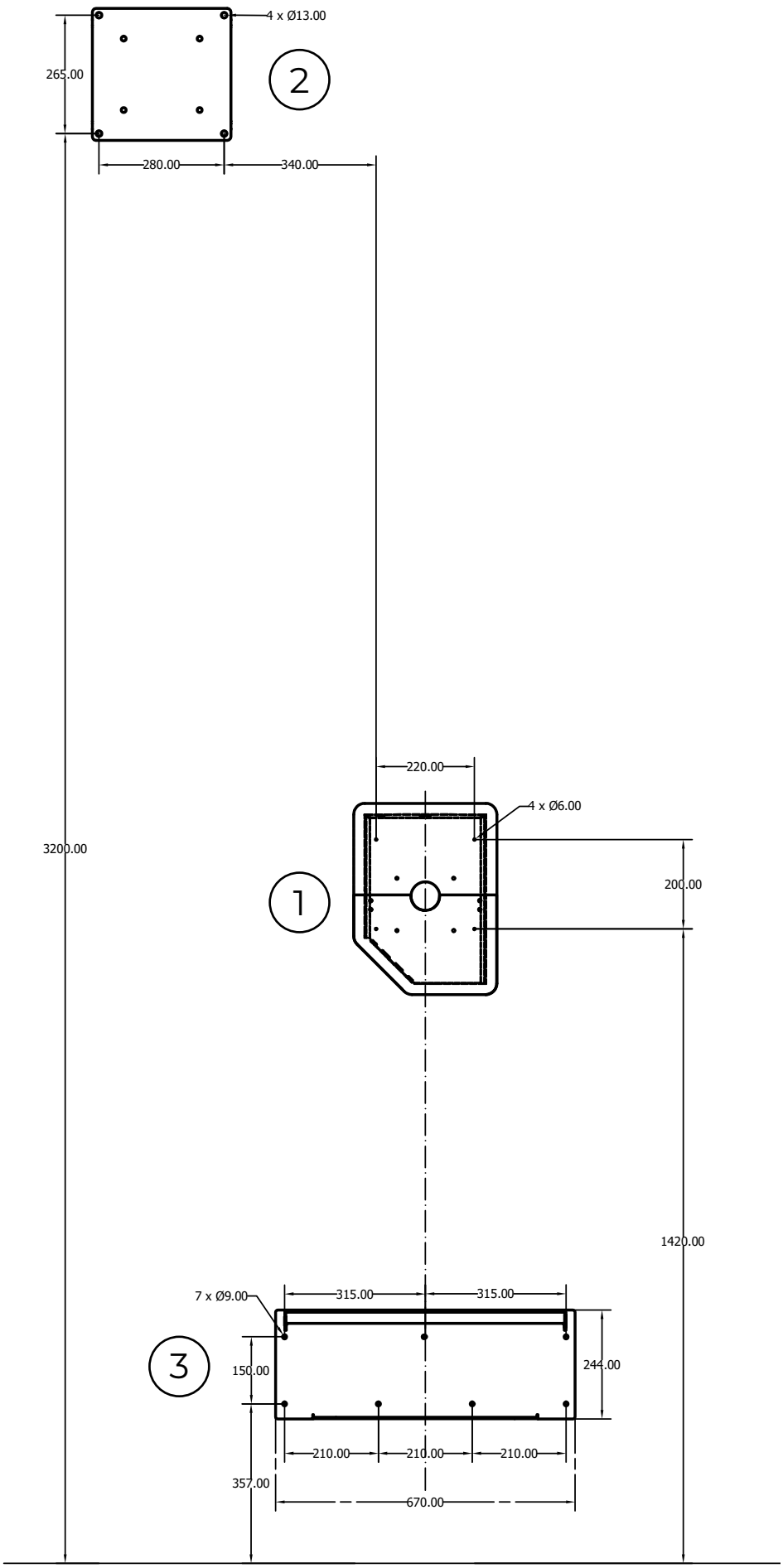
1. DSW
2. HR1100 reel
3. Double jerry can holder



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Assembly of DSW with double jerry can holder

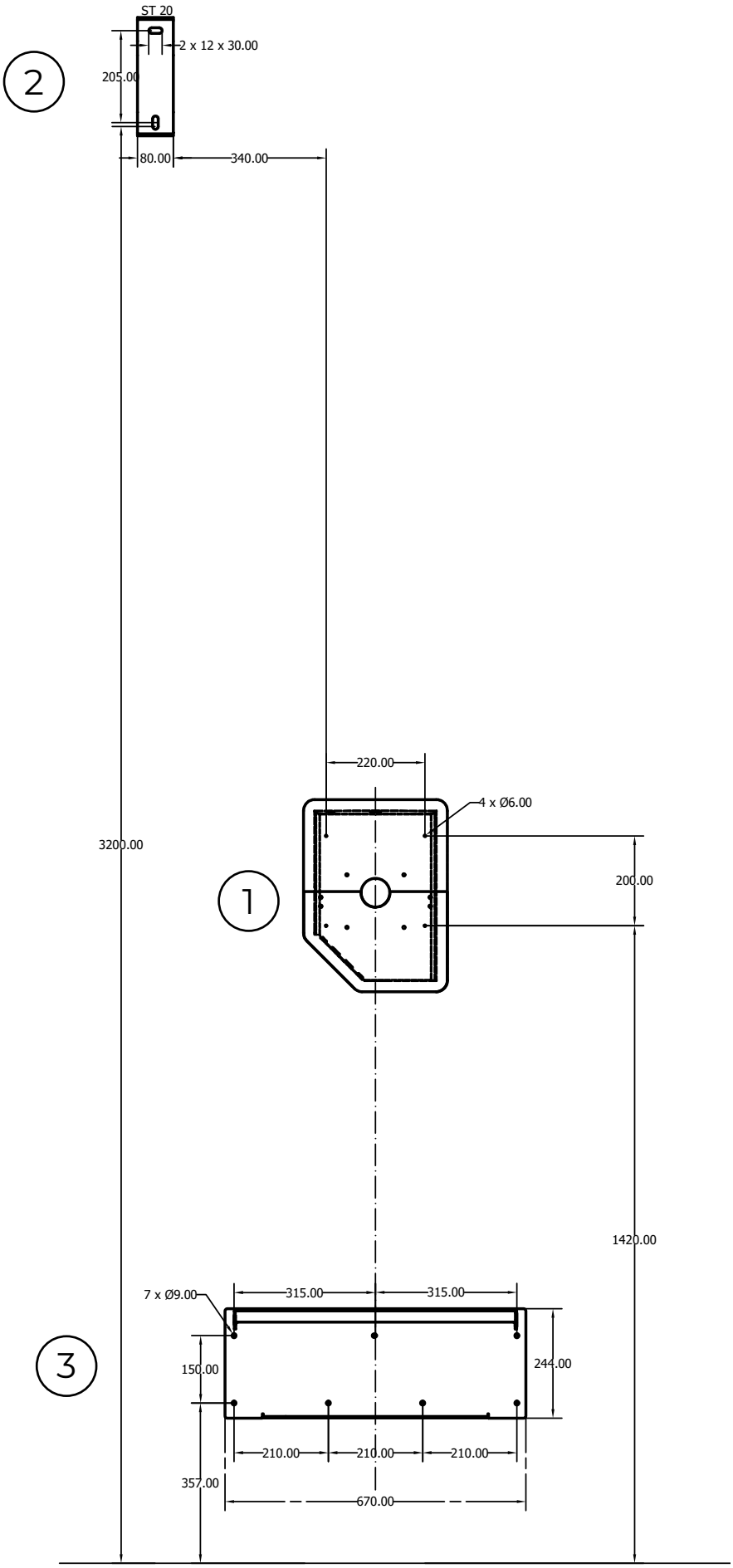
1. DSW
2. HR3500 reel
3. Double jerry can holder



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Assembly of DSW with double jerry can holder

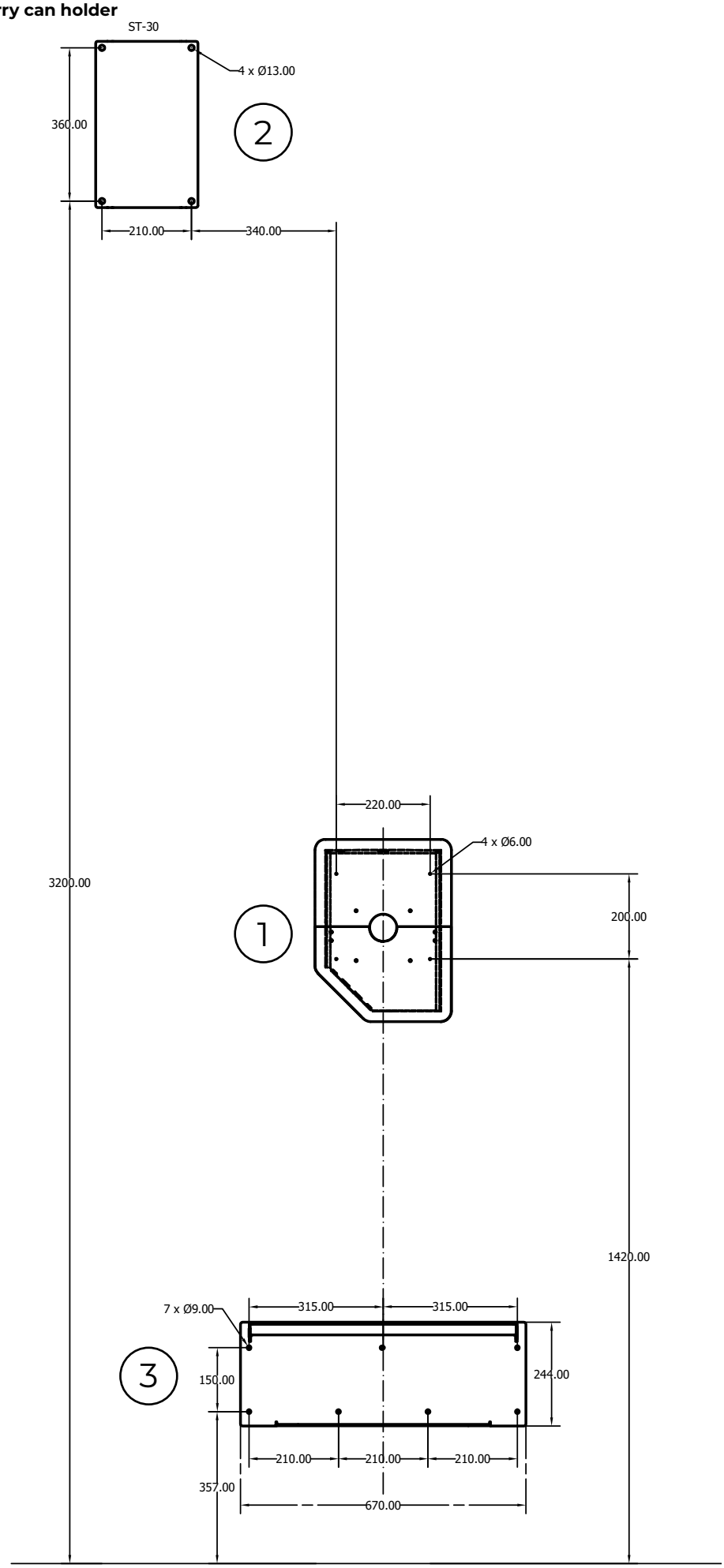
1. DSW
2. ST20 swivel console (HR1100)
3. Double jerry can holder



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Assembly of DSW with double jerry can holder

1. DSW
2. ST30 swivel console (HR3500)
3. Double jerry can holder

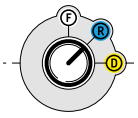


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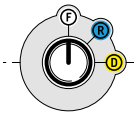
Bringing into operation

Place the DSW in a frost-free space well protected from the sun. A drain must be provided in the space where the satellite is used.

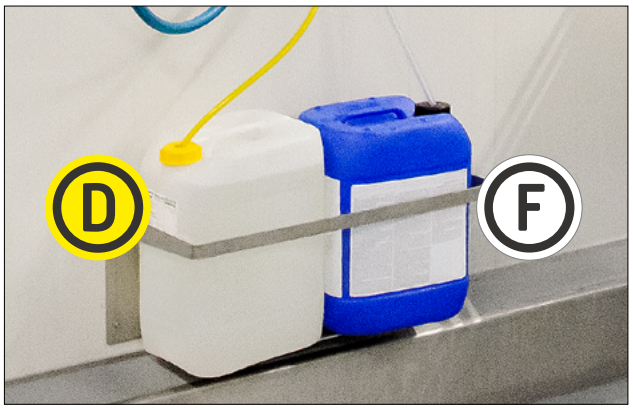
The water network should be thoroughly flushed and the compressed air line blown through to remove all impurities. With later servicing and maintenance in mind, we recommend assembling a ball valve on the water pipe and the compressed air pipe. A filter is also placed on the water pipe. Then connect the air pipe to the satellite and place the chemicals hoses in the jerrycans provided. The yellow hose is for disinfecting, the transparent hose for foaming. Always check that the chemicals hose is firmly connected. Connect the high-pressure hose to the outlet on the DSW (see (4) in the diagram on page 4). The hose (=optional) is connected using a quick-release coupling. When all hoses have been connected the system can be tested.



Make sure there is sufficient water pressure and compressed air (see page 20) and **put the DSW in the rinse position (R)**. Open the water tap and then the spray gun to flush out any air left in the pipes after installation. This must always happen before you start working with the DSW satellite or following repairs or maintenance work.



Select the foam position (F) on the appliance, open the gun and allow the DSW to draw chemicals. Connect the air and test if the foam is properly created. The foam quality depends on the compressed air pressure. **Then repeat this step for the disinfectant.**

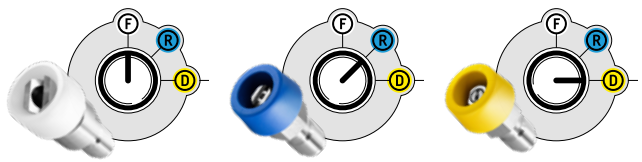


Use

The satellite 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 satellite 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.

Operating

The appliance is very simple to use and operate. Switching between foaming (F), disinfecting (D) and rinsing (R) is all done with one and the same rotary switch. Use the appropriate nozzle for each function (foaming, disinfecting and rinsing). Standard version:



FOAM RINSE DISINFECT

The standard nozzle for foaming is 80.150 and the standard nozzle for rinsing is 15.25. Other nozzles are always available on request from BOONS FIS.

Dosage

The following table shows the dosage at an operating pressure of 20 bar. The standard nozzle for disinfecting is

Consumption amounts to approximately 10 l/min. for disinfecting, 11 l/min. for foaming and 25 l/min. when rinsing.

A calibration can always be done to determine the exact dosage with the product used. An appointment must be made with BOONS FIS to do this.

DOSING NOZZLE	ART. CODE	DOSAGE (%)
0,3	119971	
0,4	908067	
0,5 - Standard for disinfection	689891	**1 %**
0,6	375023	
0,7	300818	2 %
0,8	375030	
0,9	603307	
1,0 - Standard for foam	870515	**3,50 %**
1,1	868803	4,50 %
1,2	740327	5,50 %
1,3	260795	6,00 %
1,4	646516	
1,5	552682	7,00 %
You can order via warehouse@boonsfis.com		

The dosage is average and depends on pressure, flow rate and type of chemical. BOONS FIS accordingly bears no responsibility in the case of any variations from the indicated dosage %.

Chemical cleaning agents

- Always first read the instructions on the product packaging.
- Always check the content of the jerry can to avoid working with the wrong agent.
- 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. See page 4.
- Remove the filler cap and hang the suction hose in the jerry cans.
- Transparent hose = hose for foam Yellow hose = hose for disinfectant
- Always make sure of good ventilation.
- Always use the most suitable agent and take advice from your chemical supplier.

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Although our installations are constructed in such a way that the likelihood of mixing different products is extremely small (but never excluded), it is nevertheless possible that the operators of the installation use the diluted products after each other without rinsing. The products must hence be chemically compatible and preferably not chlorinated, so no chlorinated reactions can occur when switching from the one product to the other.

Residues of cleaning products and/or disinfectants can block the injector. So the injector must always be rinsed after cleaning with clean warm water for at least 60 seconds. To do this the yellow and transparent hoses are submerged in clean warm water.

Components

Hoses, guns, lances and connecting parts are key components of the satellite. The maximum permitted operating pressure for these accessories is 65 bar and the maximum temperature is 70 °C. Do not exceed these values. Always use original components from BOONS FIS.

Water jet

The water jet can be dangerous if misused. Never aim the jet at yourself, persons, animals, the appliance itself or live installations.

- Never spray electrical parts with water: danger to persons and of short circuiting.
- Always wear appropriate footwear with anti-slip soles when working with the water jet, as the combination of water and foam can cause slipperiness.
- Protective clothing and safety glasses must be worn.
- 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.
- Remove all loose items from the place of spraying.
- Never spray from an unstable standing position (on a ladder, scaffolding, etc.).
- Respect the rules for ergonomics during spraying.

Spray lance

Retraction forces are caused at the spray lance when the DSW satellite is being used.

Switch the appliance off when the spray lance is replaced or close the ball valve. 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.

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 DSW.

If you use the DSW with chemicals that require compulsory labelling or with a water temperature of over 50 °C, use of a low-pressure gun with automatic closing is compulsory. If you do not do this, BOONS FIS rejects any liability.

Maintenance

General

All maintenance work must take place when the satellite is switched off and disconnected from water and compressed air. Only specially trained personnel may check the components. Before starting work, the whole DSW must be rinsed with warm water so as much of the chemical products/residues as possible are removed and the work can be done in a safe way and free of chemicals. Immediately after the work, all safety components and protective parts must be replaced before the satellite is used again. After the work the appliance must be put in the rinse position so air and particles remaining after maintenance can be rinsed away.

One requires a reliable and technically sound machine to guarantee a properly working satellite. Thorough maintenance at regular intervals (at least twice a year) is required to maintain proper operation. This maintenance can be carried out by experienced BOONS technicians by making an appointment (support@boonsfis.com) or under a maintenance contract.

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

Anti-legionella bacteria measure

If the satellite has not been used for some time, the water in the supply pipe and discharge pipe must be drained off. Stagnant water at temperatures between 20 °C - 55 °C can cause Legionella bacteria. It is therefore advised to act upon the following recommendations:

- Regularly clean the piping and components.
- Flush periodically using the appropriate products.
- Remove any sediment.
- Ask about a maintenance contract for cleaning Legionella's disease.

Maintenance schedule

Check the satellite each day for any compressed air or water leaks.

Water and chemical non-return valves and O-rings are critical parts subject to wear and must be replaced every 6 months. Depending on the chemicals used it may be necessary to replace these parts at shorter intervals.

Chemical residues compromise operation of the appliance. The appliance must therefore be rinsed with warm water after each time of use to ensure proper operation.

Maintenance by BOONS technicians

Water filter

Depending on the water quality it can be necessary to filter the water to prevent the satellite from becoming blocked. BOONS FIS advises filtering at 25 µ.

Non-return valves

The Water, chemical and compressed air check valves are critical parts in the satellite and must be regularly checked and replaced if necessary.

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The chemistry check valves in the satellite should be replaced on an annual basis.

Compressed air quality

The compressed air supplied to the DSW satellite must be oil-free and filtered at 100µ.

Injector system

The injector system consists of a selector sealed by O-rings, injector nozzles, counter nozzles, non-return valves and dosing nozzles.

Chemical residues have a negative effect on operation of the injector system. After use the chemical suction lines must each time be further rinsed by drawing in warm water so the whole system is cleaned of all chemicals on the inside to ensure an optimal working life for all parts.

Limescale compromises operation of the selector block (housing). Limescale removal according to the instructions of the supplier of the chemical substances can be required on a regular basis.

For further maintenance we recommend you contact BOONS FIS or its approved dealer about a maintenance contract. Maintenance applies for normal operating conditions. Especially demanding conditions can be mentioned so this can be taken into account.

Housing

The satellite assembly is fully made of stainless steel. Check the housing as a whole for loose bolts, cracks and/or fractures in the welded joints. Keep the satellite clean to the extent possible to prevent the effects of dirt, water, oil and spilt chemicals. If required, BOONS FIS will provide the necessary stainless steel cleaning products for maintenance.



Description	Content	Article code
BOONS FIS SS Rust remover	500 ml	354059
BOONS FIS SS Conditioner	500 ml	354080

Spraying equipment

Check lances, hoses and guns for leaks, visible damage and hairline cracks. If there is damage or leaks this must be immediately repaired/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.

Putting the decentralised satellite out of operation

Disconnect the water supply and the compressed air supply and relieve the pressure in the hoses. You do this by pinching the the (ball) pistol after closing the 2 ball valves. Disconnect the lance from the pistol and store it. Roll the hoses up if there are reels.

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

- That the suction hoses have been rinsed with warm water for a sufficiently long time and the suction hoses have been taken out of the chemical supply tanks.
- 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 satellite must be disposed of according to its nature and the applicable requirements (for example: electrical scrap, synthetic materials, stainless steel, bronze, etc.). The satellite must also be disposed of in way that is as environmentally friendly as possible.

There are three options here:

- Exchange for a new DSW.
- 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.

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Fault table

If there is a fault 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.

Fault	Cause	Solution
No water or too low pressure when rinsing.	Water supply is shut off.	Check the water supply.
	The selection button is not in the correct position.	Switch the selection button to the required function.
The unit does not draw chemicals.	The selection button is not in the correct position.	Switch the selection button to the required function.
	The suction filter in the jerry can is blocked.	Clean or replace the suction filter.
	The water supply pressure is too low.	Check the water supply (20 - 40 bar) and the compressed air supply pressure (6 - 10 bar) to make sure it is sufficient as described in the manual.
	The dosing nozzle is blocked.	Clean the nozzle or replace it.
	Counter or injector nozzle is blocked.	Check, clean and rinse the counter and injector nozzle.
Poor foam quality.	The chemical product is a non-foaming product.	Change the chemical product for a foaming product if foaming is required.
	Incorrect dosage.	Check the dosing nozzles. Adapt the dosing nozzles according to the dosing requirements of the chemical supplier.
	Suction filter / dosing nozzle is blocked.	Check, clean and rinse the suction filter and dosing nozzle.
	Counter or injector nozzle is blocked.	Check, clean and rinse the counter and injector nozzle.
	Compressed air pressure is too low.	Check the compressed air supply. Adjust the compressed air pressure with the pressure regulating valve.
	Wrong or not original foam nozzle is assembled on the gun / lance.	Replace the incorrect/not original foam nozzle with the correct foam nozzle.
Sputterende lans.	Check valve falters.	Check the check valve for hiccups, clean the check valve or replace the check valve.
	Compressed air pressure too low / too high.	Adjust the pressure reducing valve until the desired foam quality is achieved.

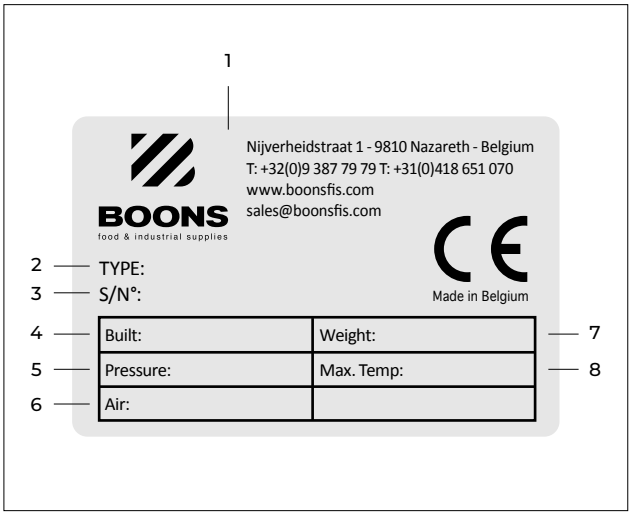
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03. Technical details

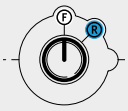
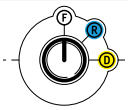
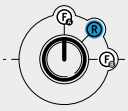
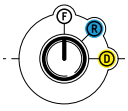
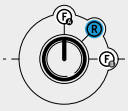
Type plate

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

1. Producer
2. Type of appliance
3. Serial number
4. Year of manufacture
5. Pressure
6. Air
7. Weight
8. Maximum temperature



Versions

VISUAL	TYPE	FUNCTIONS	DESCRIPTION	ARTICLE CODE
	DSW-F-1-R	Foam^{AIR} - Rinse	Only compressed air with Foam	378710
	DSW-FD-1-R	Foam^{AIR} - Disinfection - Rinse	Only compressed air with Foam	375597
	DSW-FF-1-R	Foam^{AIR} - Foam^{AIR} - Rinse	Compressed air pressure of both chemical poducts adjustable with 1 pressure regulator.	375603
	DSW-FD-2-R	Foam^{AIR} - Disinfection^{AIR} - Rinse	Compressed air pressure of both chemical products separately adjustable with 2 pressure regulators.	378727
	DSW-FF-2-R	Foam^{AIR} - Foam^{AIR} - Rinse	Compressed air pressure of both chemical products separately adjustable with 2 pressure regulators.	378772

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Technical details diagram

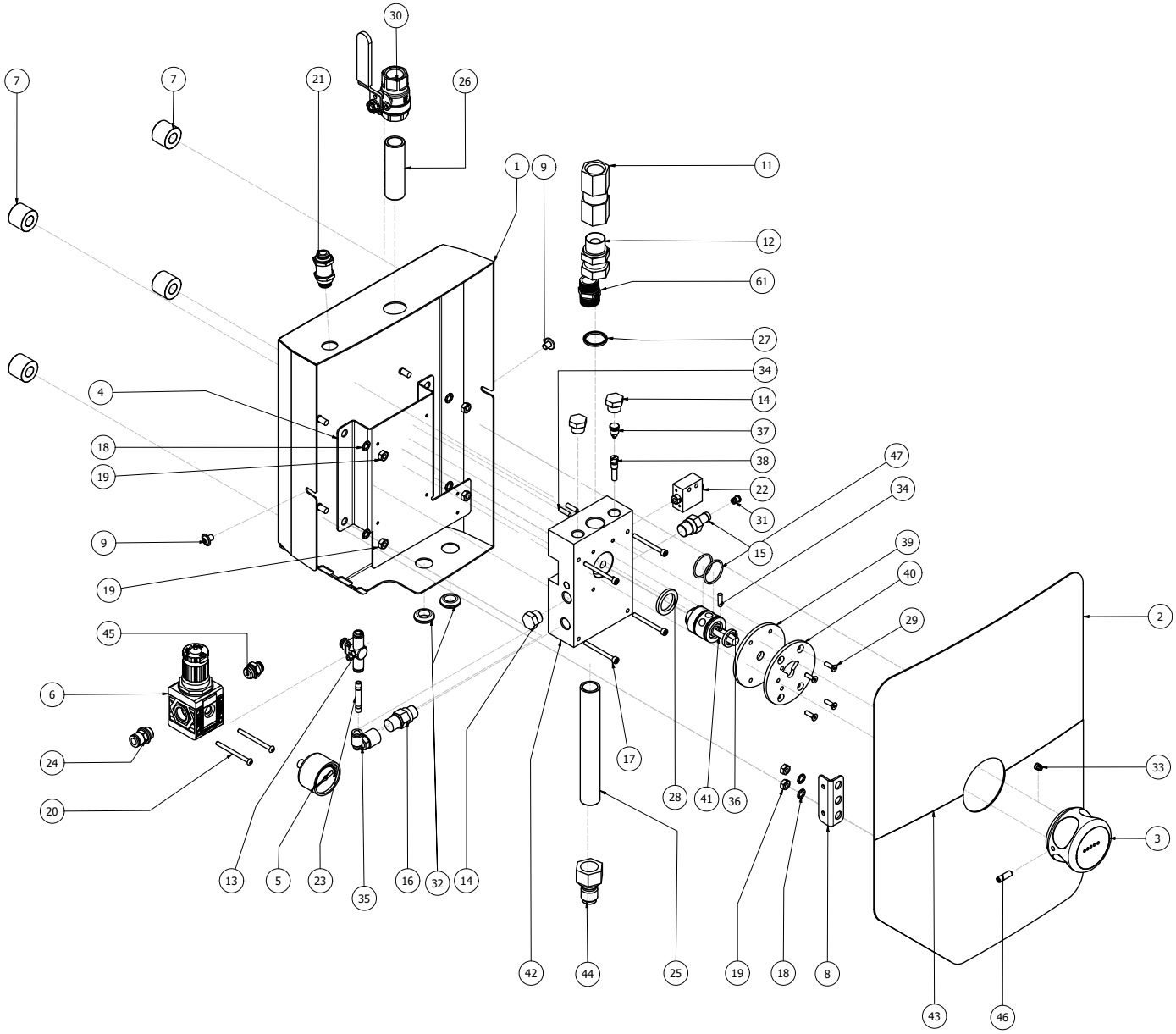
Type	DSW-F-1-R	DSW-FD-1-R	DSW-FF-1-R	DSW-FD-2-R	DSW-FF-2-R
Number of pressure regulators *	1	1	1	2	2
USAGE INFORMATION					
Rinsing nozzle **	15.25				
Disinfection nozzle **	40.20				
Foam nozzle **	80.150				
Consumption with rinsing nozzle	25 l/min at 20 bar				
Consumption with disinfection nozzle	n/a	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 ***	See page 15				
Standard dosing disinfection ***	n/a	0,95 % at 20 bar	n/a	0,95 % at 20 bar	n/a
Standard dosing foam ***	4% at 20 bar				
Number of users	1				
Advised length of cleaning hose	min. 10 m - max. 25 m Boonsjet 1/2”				
WATER CONNECTION					
Supply pressure	min. 20 bar - max. 40 bar				
Supply rate	min. 25 l/min - max. 40 l/min				
Supply temperature	min. 3°C - max. 70°C				
Water inlet	1/2” female thread BSP				
Water outlet	BOONS adapter				
COMPRESSED AIR CONNECTION					
Supply pressure	min. 6 bar - max. 10 bar				
Supply rate	150 l/min				
Compressed air inlet	insert coupling ø 8 mm				
DIMENSIONS					
Weight	10 kg	10 kg	10 kg	11 kg	11 kg
Weight (packaging incl.)	10,5 kg	10,5 kg	10,5 kg	11,5 kg	11,5 kg
Dimensions L x W x D	428 x 320 x 150 mm				
Dimensions L x W x D (packaging incl.)	618 x 345 x 168 mm				
ARTICLE NUMBER	378710	375597	375603	378727	378772

* See page 19 for more info
** This is the nozzle size advised by BOONS FIS, nozzles not included with the DSW (separately ordered)
*** These dosage values depend on the used cleaning agent and type of dosing nozzles

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Complete technical drawing

DSW-F-1-R (378710)



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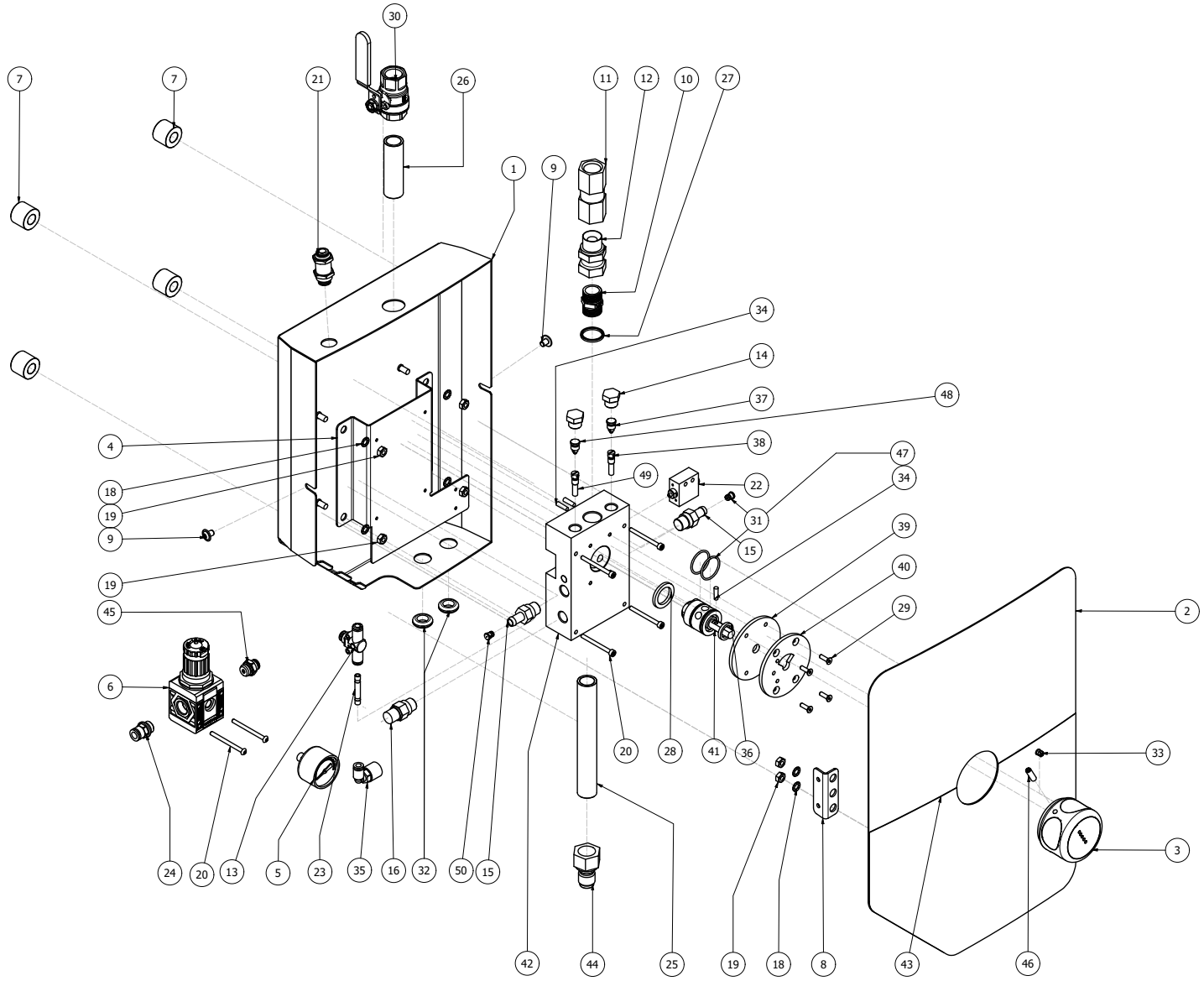
DSW-F-1-R (378710)

Number	Total	Article number	Description	Maintenance kit
1	1	378390	Housing DSW	
2	1	378406	Cover plate DSW	
3	1	373920	Switch button round EGK.63-SST-10-C3-SOFT M6 logo special	
4	1	378444	Bracket for selector DSW	
5	1	357739	Pressure gauge 40 mm 1/8" behind 0-10 bar	
6	1	357722	Pressure regulating valve 561_R14 8 bar	
7	4	378383	Spacer cabinet DSW	
8	2	378413	Bracket for cover plate DSW/CS	
9	2	358057	Socket head screw stainless steel M6 x 12	
10	1	146749	Nipple HP stainless steel 1/2" male-male BSPP	
11	1	133329	Non-return valve stainless steel 1/2" 400 bar 80 l	C
12	1	146920	Bush stainless steel 1/2' x 1/2"	
13	1	308373	Back-flow preventer indicator 6 mm	B - C
14	3	378512	Stop M14x1	
15	3	378529	Chemical supply incl. non-return valve M14x1	A (2) - C (2)
16	1	378536	Compressed air supply incl. non-return valve M14x1	B - C
17	4	378628	Socket head screw stainless steel M4x45	
18	8	378703	V-washer stainless steel M6	
19	8	120159	Nut stainless steel M6	
20	4	358064	Socket head screw stainless steel M4x50	
21	1	378130	R10 Bulkhead union 8 mm	
22	1	370295	Valve 3/2-6 ejector BED.NC	C
23	1	378680	Connecting piece diam. 6	
24	1	370110	RL1 8x1/4" Straight screw-in	
25	1	378505	Drainage pipe water 70 mm DSW	
26	1	378499	Supply pipe water 70 mm DSW	
27	1	370950	Multi-seal sealing washer 1/2" stainless steel	C
28	1	378475	Brass ring bottom DSW	
29	4	378635	Countersunk bolt M4x14	
30	1	357708	Ball valve BOONS 1/2" stainless steel 60 bar	
31	1	870515	Dosing nozzle 1.0 stainless steel	
32	1	374071	Rubber grommet 12.5 x 17.5 mm	
33	1	376730	GN 614.5-6-KU - springing gland follower	
34	3	378642	Adjusting screw stainless steel M 4x14	
35	1	373791	Compressed air sliding socket joint knee 600 mm 1/4"	
36	1	378482	Brass ring top DSW	
37	1	378567	Injector nozzle 2.1	A - C
38	1	378604	Counter nozzle 2.8	A - C
39	1	378420	Fastening plate selection button DSW	
40	1	378437	Fastening plate selection button positions DSW	
41	1	378468	Selector DSW	
42	1	378451	Housing DSW	
43	1	379304	Sticker control cabinet DSW F-R	
44	1	307000	Adapter stainless steel 1/2" internal thread SU	
45	1	376020	Straight screw-in coupling 6 x 1/4"	
46	1	910728	Adjusting screw M6x20 with cup point	
47	2	238582	O-Ring NBR 75 26.7x1.78	B (2) - C (2)
48	1	308588	Suction filter stainless steel 6.5mm	

Article number	Description	Interval
380759	Dosing nozzle set stainless steel 0.3 - 1.5 (13 pieces)	
286730	Maintenance Kit A DSW	6 months
184675	Maintenance Kit B DSW	
653062	Maintenance Kit C DSW	
You can order via warehouse@boonsfis.com		

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DSW-FD-1-R (375597)



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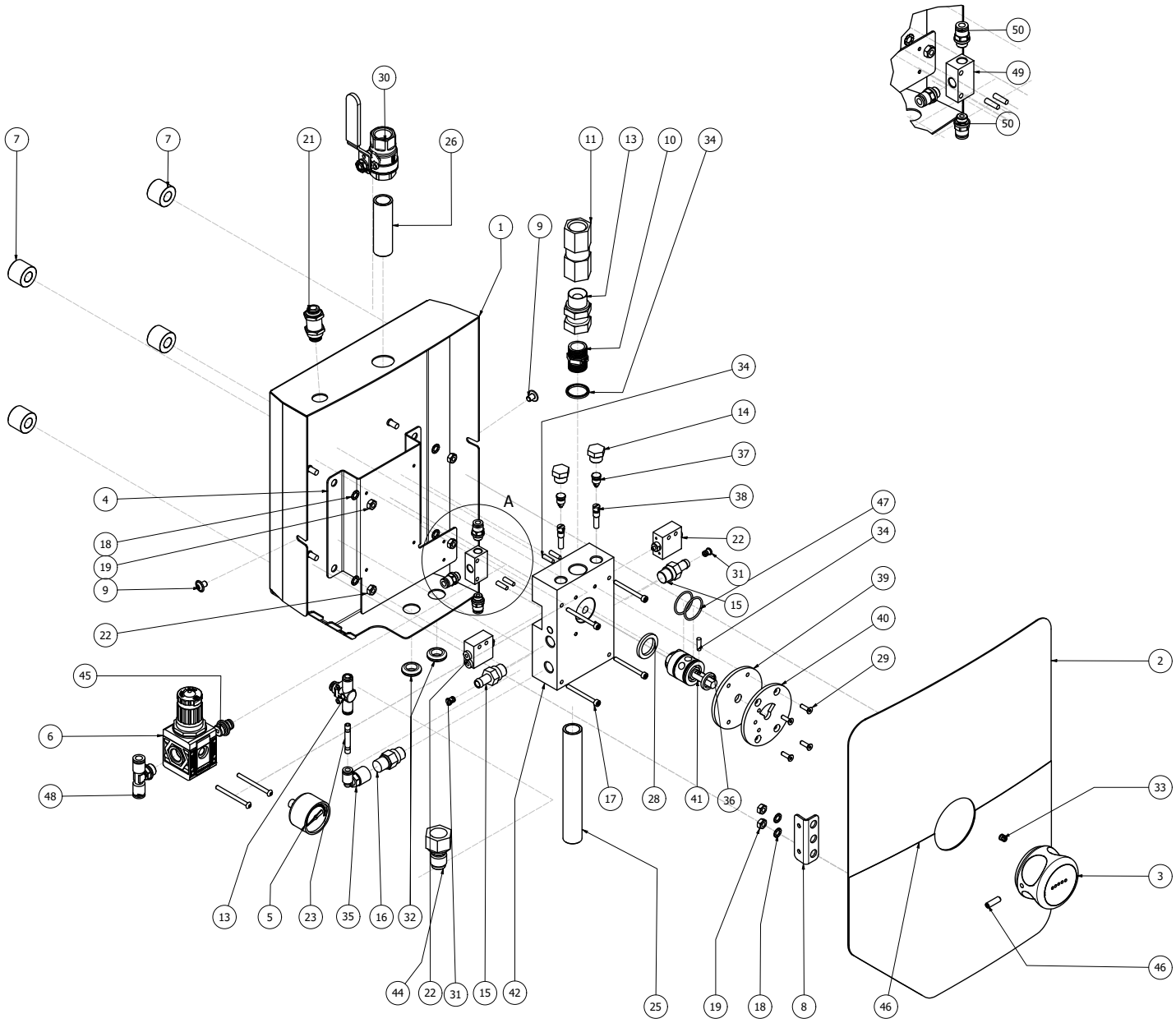
DSW-FD-1-R (375597)

Number	Total	Article number	Description	Maintenance kit
1	1	378390	Housing DSW	
2	1	378406	Cover plate DSW	
3	1	373920	Switch button round EGK.63-SST-10-C3-SOFT M6 logo special	
4	1	378444	Bracket for selector DSW	
5	1	357739	Pressure gauge 40 mm 1/8" behind 0-10 bar	
6	1	357722	Pressure regulating valve 561_R14 8 bar	
7	4	378383	Spacer cabinet DSW	
8	2	378413	Bracket for cover plate DSW/CS	
9	2	358057	Socket head screw stainless steel M6 x 12	
10	1	146749	Nipple HP stainless steel 1/2" male-male BSPP	
11	1	133329	Non-return valve stainless steel 1/2" 400 bar 80 l	C
12	1	146920	Bush stainless steel 1/2' x 1/2"	
13	1	308373	Back-flow preventer indicator 6 mm	B - C
14	2	378512	Stop M14x1	
15	2	378529	Chemical supply incl. non-return valve M14x1	A (2) - C (2)
16	1	378536	Compressed air supply incl. non-return valve M14x1	B - C
17	4	378628	Socket head screw stainless steel M4x45	
18	8	378703	V-washer stainless steel M6	
19	8	120159	Nut stainless steel M6	
20	2	358064	Socket head screw stainless steel M4x50	
21	1	378130	R10 Bulkhead union 8 mm	
22	1	370295	Valve 3/2-6 ejector BED.NC	C
23	1	378680	Connecting piece diam. 6	
24	1	370110	RL1 8x1/4" Straight screw-in	
25	1	378505	Drainage pipe water 70 mm DSW	
26	1	378499	Supply pipe water 70 mm DSW	
27	1	370950	Multi-seal sealing washer 1/2" stainless steel	C
28	1	378475	Brass ring bottom DSW	
29	4	378635	Countersunk bolt M4x14	
30	1	357708	Ball valve BOONS 1/2" stainless steel 60 bar	
31	1	870515	Dosing nozzle 1.0 stainless steel	
32	2	374071	Rubber grommet 12.5 x 17.5 mm	
33	1	376730	GN 614.5-6-KU - springing gland follower	
34	3	378642	Adjusting screw stainless steel M 4x14	
35	1	373791	Compressed air sliding socket joint knee 600 mm 1/4"	
36	1	378482	Brass ring top DSW	
37	1	378567	Injector nozzle 2.1	A - C
38	1	378604	Counter nozzle 2.8	A - C
39	1	378420	Fastening plate selection button DSW	
40	1	378437	Fastening plate selection button positions DSW	
41	1	378468	Selector DSW	
42	1	378451	Housing DSW	
43	1	379304	Sticker control cabinet DSW FD-R	
44	1	307000	Adapter stainless steel 1/2" internal thread SU	
45	1	376020	Straight screw-in coupling 6 x 1/4"	
46	1	910728	Adjusting screw M6x20 with cup point	
47	2	238582	O-Ring NBR 75 26.7x1.78	B (2) - C (2)
48	1	378550	Injector nozzle 1.6	A - C
49	1	376402	Counter nozzle 2.0	A - C
50	1	689891	Dosing nozzle 0.5 RVS	
51	2	308588	Suction filter stainless steel 6.5mm	

Article number	Description	Interval
380759	Dosing nozzle set stainless steel 0.3 - 1.5 (13 pieces)	
286730	Maintenance Kit A DSW	6 months
184675	Maintenance Kit B DSW	
653062	Maintenance Kit C DSW	
You can order via warehouse@boonsfis.com		

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DSW-FF-1-R (375603)



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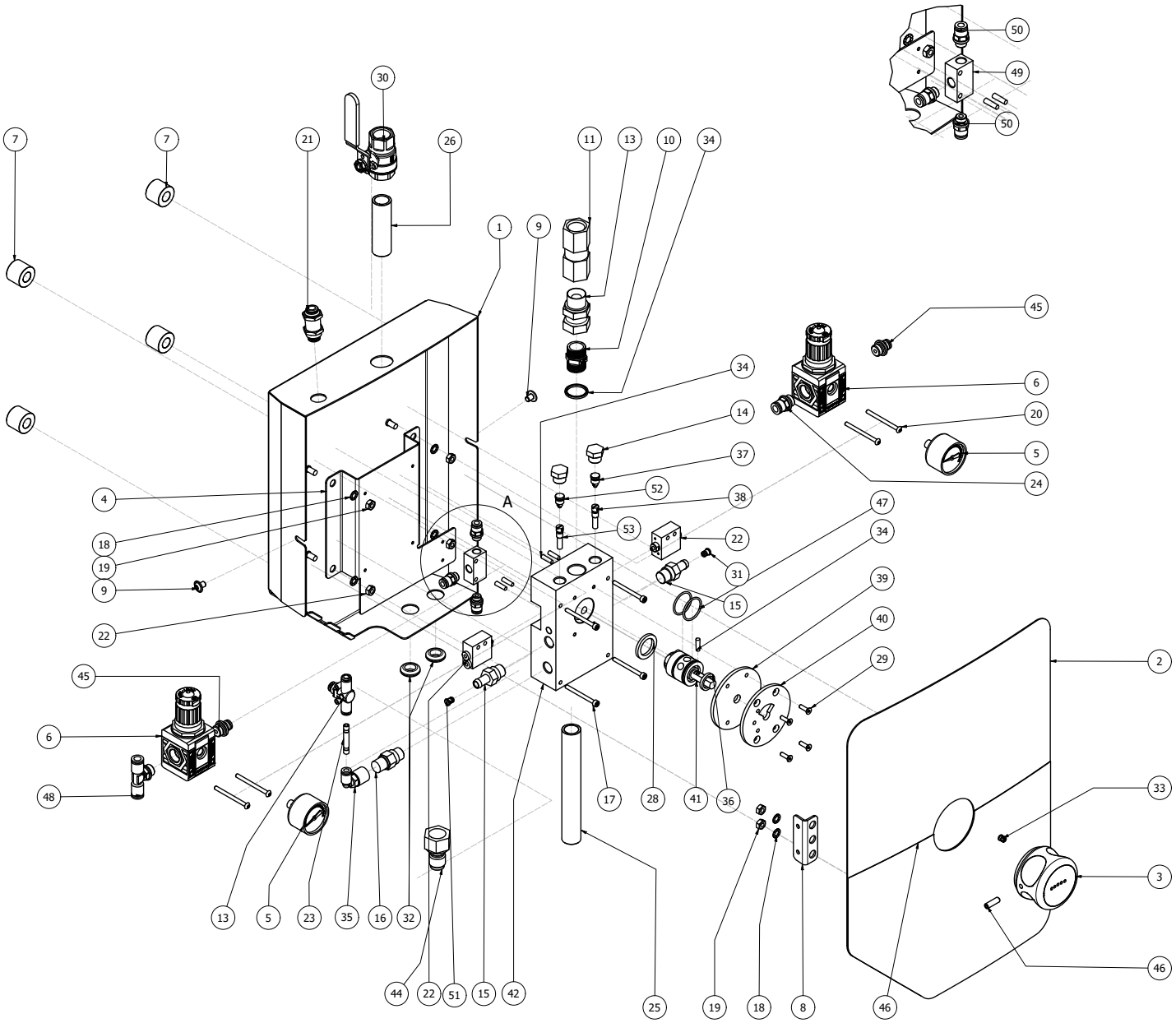
DSW-FF-1-R (375603)

Number	Total	Article number	Description	Maintenance kit
1	1	378390	Housing DSW	
2	1	378406	Cover plate DSW	
3	1	373920	Switch button round EGK.63-SST-10-C3-SOFT M6 logo special	
4	1	378444	Bracket for selector DSW	
5	1	357739	Pressure gauge 40 mm 1/8” behind 0-10 bar	
6	1	357722	Pressure regulating valve 561_R14 8 bar	
7	4	378383	Spacer cabinet DSW	
8	2	378413	Bracket for cover plate DSW/CS	
9	2	358057	Socket head screw stainless steel M6 x 12	
10	1	146749	Nipple HP stainless steel 1/2” male-male BSPP	
11	1	133329	Non-return valve stainless steel 1/2" 400 bar 80 l	C
12	1	146920	Bush stainless steel 1/2’ x 1/2”	
13	1	308373	Back-flow preventer indicator 6 mm	B - C
14	2	378512	Stop M14x1	
15	2	378529	Chemical supply incl. non-return valve M14x1	A (2) - C (2)
16	1	378536	Compressed air supply incl. non-return valve M14x1	B - C
17	4	378628	Socket head screw stainless steel M4x45	
18	8	378703	V-washer stainless steel M6	
19	8	120159	Nut stainless steel M6	
20	2	358064	Socket head screw stainless steel M4x50	
21	1	378130	R10 Bulkhead union 8 mm	
22	1	370295	Valve 3/2-6 ejector BED.NC	C
23	1	378680	Connecting piece diam. 6	
24	1	370110	RL1 8x1/4” Straight screw-in	
25	1	378505	Drainage pipe water 70 mm DSW	
26	1	378499	Supply pipe water 70 mm DSW	
27	1	370950	Multi-seal sealing washer 1/2” stainless steel	C
28	1	378475	Brass ring bottom DSW	
29	4	378635	Countersunk bolt M4x14	
30	1	357708	Ball valve BOONS 1/2” stainless steel 60 bar	
31	1	870515	Dosing nozzle 1.0 stainless steel	
32	2	374071	Rubber grommet 12.5 x 17.5 mm	
33	1	376730	GN 614.5-6-KU - springing gland follower	
34	3	378642	Adjusting screw stainless steel M 4x14	
35	1	373791	Compressed air sliding socket joint knee 600 mm 1/4”	
36	1	378482	Brass ring top DSW	
37	1	378543	Injector nozzle 1.2	A - C
38	1	378581	Counter nozzle 1.7	A - C
39	1	378420	Fastening plate selection button DSW	
40	1	378437	Fastening plate selection button positions DSW	
41	1	378468	Selector DSW	
42	1	378451	Housing DSW	
43	1	379304	Sticker control cabinet DSW FF-R	
44	1	307000	Adapter stainless steel 1/2” internal thread SU	
45	1	376020	Straight screw-in coupling 6 x 1/4"	
46	1	910728	Adjusting screw M6x20 with cup point	
47	2	238582	O-Ring NBR 75 26.7x1.78	B (2) - C (2)
48	1	378659	RL32 8x1/4” T screw-in	
49	1	378666	Or gate 1/8”	
50	1	378673	Straight screw-in coupling 6 x 1/8"	
51	2	308588	Suction filter stainless steel 6.5mm	

Article number	Description	Interval
380759	Dosing nozzle set stainless steel 0.3 - 1.5 (13 pieces)	
286730	Maintenance Kit A DSW	6 months
184675	Maintenance Kit B DSW	
653062	Maintenance Kit C DSW	
You can order via warehouse@boonsfis.com		

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DSW-FD-2-R (378727)



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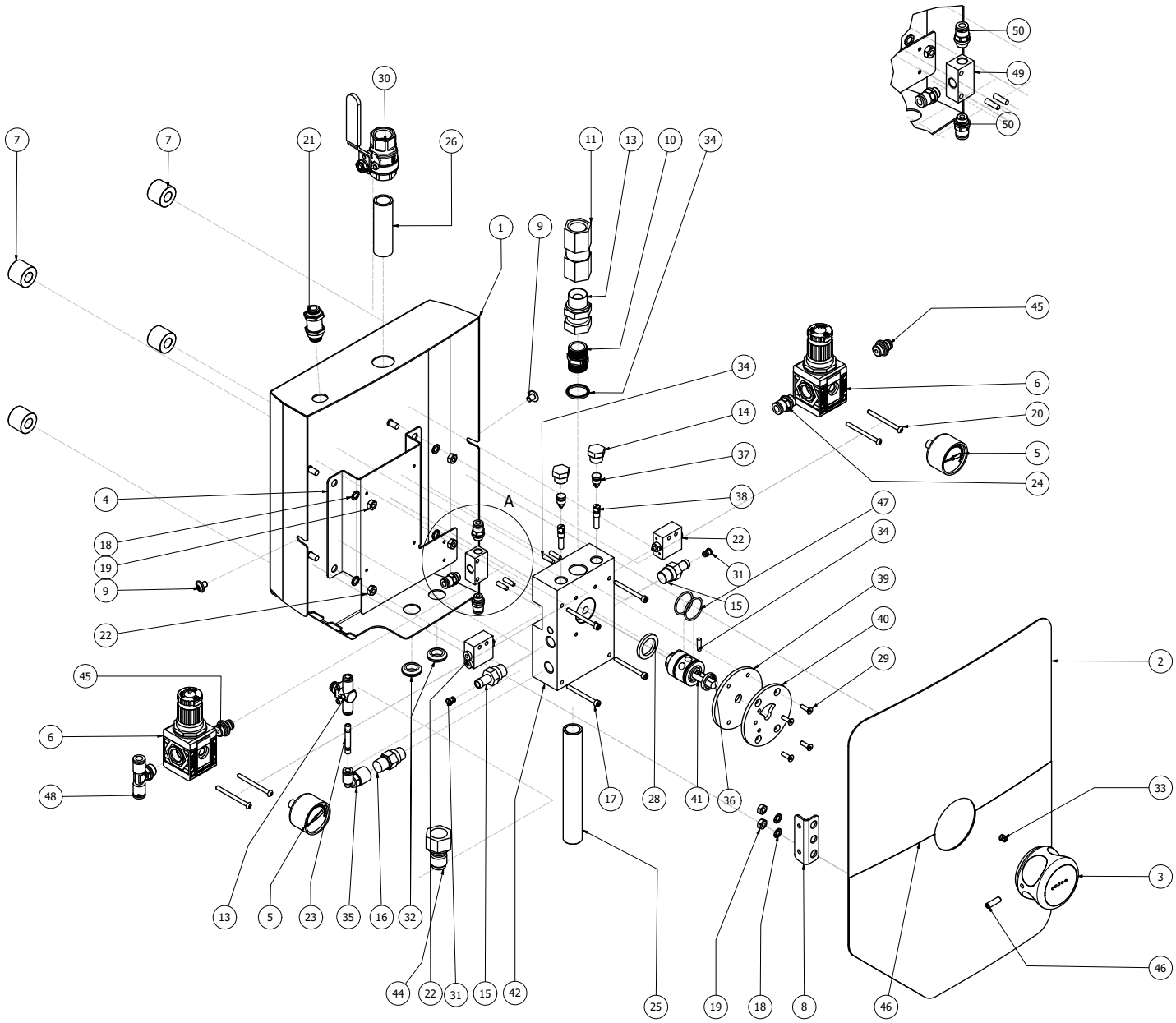
DSW-FD-2-R (378727)

Number	Total	Article number	Description	Maintenance kit
1	1	378390	Housing DSW	
2	1	378406	Cover plate DSW	
3	1	373920	Switch button round EGK.63-SST-10-C3-SOFT M6 logo special	
4	1	378444	Bracket for selector DSW	
5	1	357739	Pressure gauge 40 mm 1/8” behind 0-10 bar	
6	1	357722	Pressure regulating valve 561_R14 8 bar	
7	4	378383	Spacer cabinet DSW	
8	2	378413	Bracket for cover plate DSW/CS	
9	2	358057	Socket head screw stainless steel M6 x 12	
10	1	146749	Nipple HP stainless steel 1/2” male-male BSPP	
11	1	133329	Non-return valve stainless steel 1/2" 400 bar 80 l	C
12	1	146920	Bush stainless steel 1/2’ x 1/2”	
13	1	308373	Back-flow preventer indicator 6 mm	B - C
14	1	378512	Stop M14x1	
15	2	378529	Chemical supply incl. non-return valve M14x1	A (2) - C (2)
16	1	378536	Compressed air supply incl. non-return valve M14x1	B - C
17	4	378628	Socket head screw stainless steel M4x45	
18	8	378703	V-washer stainless steel M6	
19	8	120159	Nut stainless steel M6	
20	4	358064	Socket head screw stainless steel M4x50	
21	1	378130	R10 Bulkhead union 8 mm	
22	2	370295	Valve 3/2-6 ejector BED.NC	C
23	1	378680	Connecting piece diam. 6	
24	1	370110	RL1 8x1/4” Straight screw-in	
25	1	378505	Drainage pipe water 70 mm DSW	
26	1	378499	Supply pipe water 70 mm DSW	
27	1	370950	Multi-seal sealing washer 1/2” stainless steel	C
28	1	378475	Brass ring bottom DSW	
29	6	378635	Countersunk bolt M4x14	
30	1	357708	Ball valve BOONS 1/2” stainless steel 60 bar	
31	2	870515	Dosing nozzle 1.0 stainless steel	
32	2	374071	Rubber grommet 12.5 x 17.5 mm	
33	1	376730	GN 614.5-6-KU - springing gland follower	
34	5	378642	Adjusting screw stainless steel M 4x14	
35	1	373791	Compressed air sliding socket joint knee 600 mm 1/4”	
36	1	378482	Brass ring top DSW	
37	1	378567	Injector nozzle 2.1	A - C
38	1	378604	Counter nozzle 2.8	A - C
39	1	378420	Fastening plate selection button DSW	
40	1	378437	Fastening plate selection button positions DSW	
41	1	378468	Selector DSW	
42	1	378451	Housing DSW	
43	1	379304	Sticker control cabinet DSW FD-R	
44	1	307000	Adapter stainless steel 1/2” bin SU	
45	1	376020	Straight screw-in coupling 6 x 1/4"	
46	1	910728	Adjusting screw M6x20 with cup point	
47	2	238582	O-Ring NBR 75 26.7x1.78	B (2) - C (2)
48	1	378659	RL32 8x1/4” T screw-in	
49	1	378666	Or gate 1/8”	
50	3	378673	Straight screw-in coupling 6 x 1/8"	
51	1	689891	Dosing nozzle 0.5 RVS	
52	1	378550	Injector nozzle 1.6	A - C
53	1	376402	Counter nozzle 2.0	A - C
54	2	308588	Suction filter stainless steel 6.5mm	

Article number	Description	Interval
380759	Dosing nozzle set stainless steel 0.3 - 1.5 (13 pieces)	
286730	Maintenance Kit A DSW	6 months
184675	Maintenance Kit B DSW	
653062	Maintenance Kit C DSW	
You can order via warehouse@boonsfis.com		

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DSW-FF-2-R (378772)



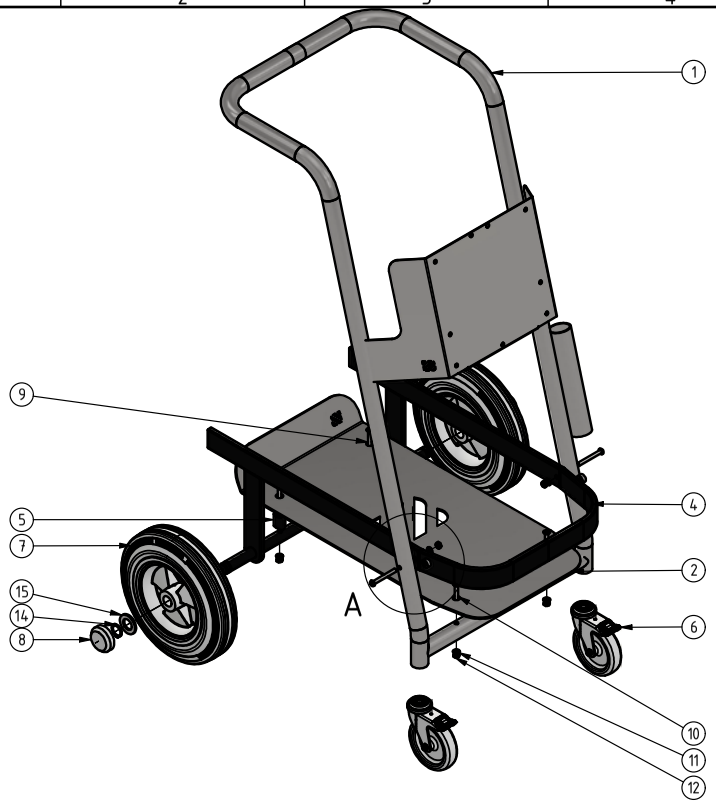
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DSW-FF-2-R (378772)

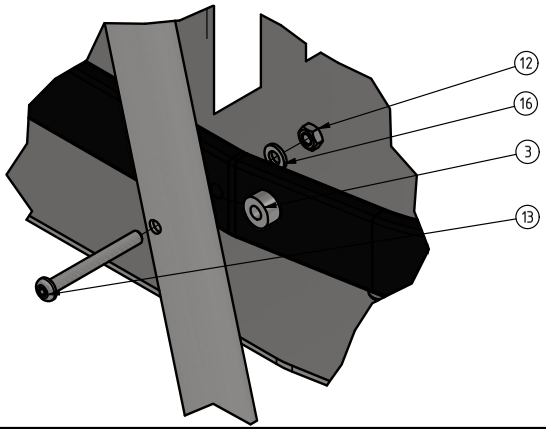
Number	Total	Article number	Description	Maintenance kit
1	1	378390	Housing DSW	
2	1	378406	Cover plate DSW	
3	1	373920	Switch button round EGK.63-SST-10-C3-SOFT M6 logo special	
4	1	378444	Bracket for selector DSW	
5	1	357739	Pressure gauge 40 mm 1/8" behind 0-10 bar	
6	1	357722	Pressure regulating valve 561_R14 8 bar	
7	4	378383	Spacer cabinet DSW	
8	2	378413	Bracket for cover plate DSW/CS	
9	2	358057	Socket head screw stainless steel M6 x 12	
10	1	146749	Nipple HP stainless steel 1/2" male-male BSPP	
11	1	133329	Non-return valve stainless steel 1/2" 400 bar 80 l	C
12	1	146920	Bush stainless steel 1/2' x 1/2"	
13	1	308373	Back-flow preventer indicator 6 mm	B - C
14	2	378512	Stop M14x1	
15	2	378529	Chemical supply incl. non-return valve M14x1	A (2) - C (2)
16	1	378536	Compressed air supply incl. non-return valve M14x1	B - C
17	4	378628	Socket head screw stainless steel M4x45	
18	8	378703	V-washer stainless steel M6	
19	8	120159	Nut stainless steel M6	
20	4	358064	Socket head screw stainless steel M4x50	
21	1	378130	R10 Bulkhead union 8 mm	
22	2	370295	Valve 3/2-6 ejector BED.NC	C
23	1	378680	Connecting piece diam. 6	
24	1	370110	RL1 8x1/4" Straight screw-in	
25	1	378505	Drainage pipe water 70 mm DSW	
26	1	378499	Supply pipe water 70 mm DSW	
27	1	370950	Multi-seal sealing washer 1/2" stainless steel	C
28	1	378475	Brass ring bottom DSW	
29	6	378635	Countersunk bolt M4x14	
30	1	357708	Ball valve BOONS 1/2" stainless steel 60 bar	
31	1	870515	Dosing nozzle 1.0 stainless steel	
32	2	374071	Rubber grommet 12.5 x 17.5 mm	
33	1	376730	GN 614.5-6-KU - springing gland follower	
34	5	378642	Adjusting screw stainless steel M 4x14	
35	1	373791	Compressed air sliding socket joint knee 600 mm 1/4"	
36	1	378482	Brass ring top DSW	
37	2	378567	Injector nozzle 2.1	A - C
38	2	378604	Counter nozzle 2.8	A - C
39	1	378420	Fastening plate selection button DSW	
40	1	378437	Fastening plate selection button positions DSW	
41	1	378468	Selector DSW	
42	1	378451	Housing DSW	
43	1	379304	Sticker control cabinet DSW FF-R	
44	1	307000	Adapter stainless steel 1/2" male SU	
45	2	376020	Straight screw-in coupling 6 x 1/4"	
46	1	910728	Adjusting screw M6x20 with cup point	
47	2	238582	O-Ring NBR 75 26.7x1.78	B (2) - C (2)
48	1	378659	RL32 8x1/4" T screw-in	
49	1	378666	Or gate 1/8"	
50	3	378673	Straight screw-in coupling 6 x 1/8"	
51	2	308588	Suction filter stainless steel 6.5mm	

Article number	Description	Interval
380759	Dosing nozzle set stainless steel 0.3 - 1.5 (13 pieces)	
286730	Maintenance Kit A DSW	6 months
184675	Maintenance Kit B DSW	
653062	Maintenance Kit C DSW	
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DETAIL A



BILL OF MATERIALS				
ITEM	QTY	PART NUMBER	DESCRIPTION	MASS (kg)
1	1	870462	Welded push bracket with plate trolley	6.675
2	1	385879	DSW Trolley base plate	4.311
3	2	251219	Ertalon spacer 7.5 mm trolley	0.009
4	1	418380	Welded bumper frame trolley	1.381
5	2	541752	Saddle washer trolley	0.007
6	2	727791	Caster wheel SS ø 80 mm	0.142
7	2	236669	Wheel 250 mm axle ø20mm	1.956
8	2	742352	Wheel cap axle ø 20 mm	0.017
9	2	193012	Countersunk Screw M6x50	0.012
10	2	559171	Countersunk Screw M6x40	0.01
11	4	119900	Washer M6	0.001
12	6	120159	Hex Nut M6	0.003
13	2	261413	Hexagon Socket bolt M6x55	0.014
14	2	769449	Spring Retaining Ring ø 20	0.002
15	2	119955	Washer M20	0.017
16	2	119900	Washer M6	0.001

Part number	Description
545275	Mobile DSW-F-1-R
238513	Mobile DSW-FD-1-R
600450	Mobile DSW-FD-2-R
710350	Mobile DSW-FF-1-R
720334	Mobile DSW-FF-2-R

Project/Product:			Unless otherwise specified Tolerances acc. to:	Scale: 1 :8	Weight: N/A
				Material:	
			Date / Name	Title:	
			Drawn 8/03/2023 A. Tokoutsi	Trolley Satellite DSW	
			Appvd 8/03/2023 A. De Boever		
			Part No: 375658		
			BOONS food & industrial supplies	Drawing No: 20.10.DSW.0119.00	Page 2/2 A3
Rev.	Changes	Date	Name		

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