

Manual S3

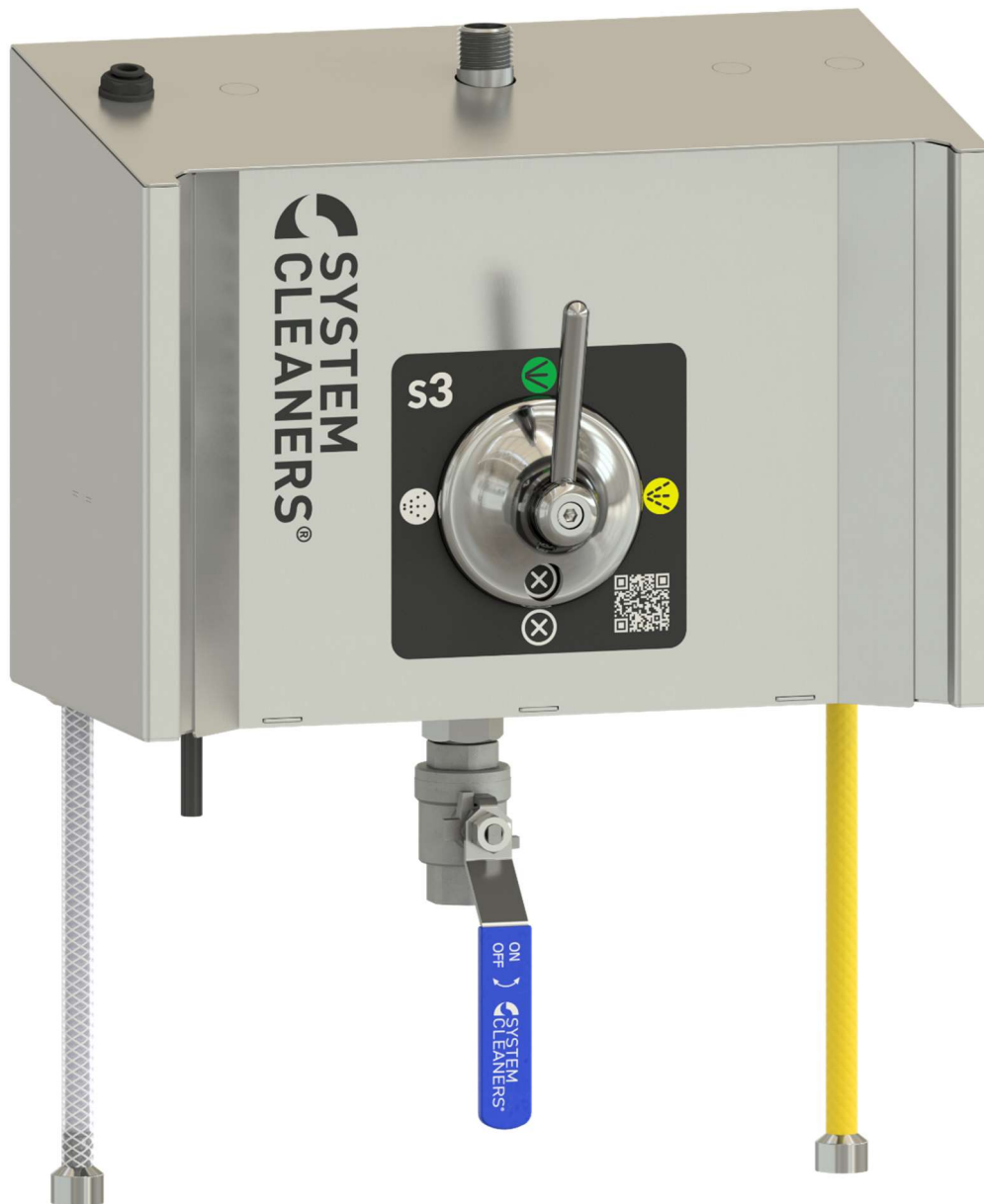


Table of content

Title page	1
Table of contents	3
Introduction	4
General.....	4
Proper use	4
Liability	4
Safety	4
Warranty	4
Labelling	4
Declaration.....	4
Safety information	5
Safety symbols	5
General.....	5
Risk assessment	5
Machine overview	6
Main function elements	6
Technical data	7
Flow diagram.....	8
Flow diagram ID	9
Transportation, handling, storage	10
Installation	11
Operation	12
Dosing valve setting	12
Quick guide F D	13
Quick guide F F.....	14
Quick guide PF PD.....	15
Quick guide PF PF	16
Quick guide PF D.....	17
Quick guide PF F	18
Quick guide Sep. D.....	19
Quick guide Sep. F	20
Quick guide Sep. PF	21
Quick guide Sep. PD	22
Maintenance	23
Non-return valves	23
Suction hose and suction filter	23
Hose.....	23
Low pressure valve / gun	23
Injector	23
Service kits	23
Quick guide open lid	24
Quick guide removal of water non-return valve.....	25
Quick guide descaling water nozzle	26
Troubleshooting.....	27
Disposal	27

General

For safety during installation and later use it is very important that installation, operating, and maintenance instructions are carefully followed.

You are requested to keep this instruction manual at a location where it will be available at all times, and it should be submitted to the person who is responsible for this product. In the event that the instruction manual is lost, you are welcome to order a new one from your dealer.

If any doubt should arise with regard to the content of these instructions, please contact the distributor.

Proper use

System Cleaners' system is exclusively designed to use water and cleaning agents. All other forms of application or use not within the scope of the above are considered to be improper and inconsistent with the requirements and regulations and may lead to hazardous situations.

System Cleaners A/S cannot be held liable for consequential damage resulting from improper use of the equipment.

Proper use includes the following:

- The instructions, regulations and recommendations concerning the system stated in the instruction manual
- Observance of the specified inspection and maintenance intervals
- Correct maintenance of good operating condition of the system
- Observance of the specified environmental and operating conditions

Proper use also includes observance of all information that is stated in this instruction manual. This applies in particular to the specified safety instructions.

Liability

Each user must handle and use the system in a responsible manner.

It is therefore of great importance that this instruction manual is available to the sanitation employee concerned at all times.

Safety

The design of the system complies with generally accepted technical regulations and provisions concerning the working environment and accident prevention. Despite this, risks can occur during use that can lead to physical inconvenience for the user or a third party or have an impact on the machine or other equipment. The system must therefore be in prime technical condition before use and may only be used in accordance with its purpose and with strict observance of the safety requirements and operating instructions. In particular, malfunctions and irregularities that can affect safety must be remedied immediately.

Warranty

Please refer to the General Terms and Conditions applicable at any time.

Labelling

The system is equipped with type plate containing technical data.

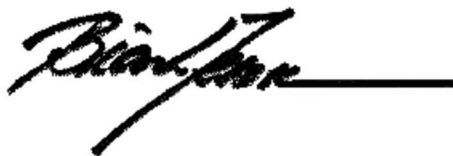
The type plate is located on a fixed part of the system.

Declaration

We declare that this product is in conformity with the following directives:

- 2006/42/EC Directive on Machinery

Brian Lund
Solution and Development Manager



System Cleaners A/S
Halkjærvej 17
DK-9200 Aalborg SV
Denmark
Tel: +45 96 34 04 04
info@systemcleaners.com
www.systemcleaners.com

Safety information



General:

This unit must only be operated by trained professionals or well instructed users.

Service must only be carried out by trained professionals or well instructed maintenance staff.

Operation:

Risk assessment

1. Always wear safety glasses, gloves and suitable clothing when using the system (PPE)
 - Danger of getting chemicals in eyes (HIGH RISK)
 - Danger of getting high pressure water in eyes (HIGH RISK)
 - Danger of getting chemicals on skin (HIGH RISK)
2. The Door must be closed at all times.
 - Danger of high-pressure water/chemical in case of failure (MED. RISK)

Service/Maintenance:

Risk assessment

1. Always wear safety glasses, gloves and suitable clothing when using the system (PPE)
 - Danger of getting chemicals in eyes (HIGH RISK)
 - Danger of getting high pressure water in eyes (HIGH RISK)
 - Danger of getting chemicals on skin (HIGH RISK)
2. Before accessing the unit/opening the door, make sure all inlet ball valves (Water, Chemical, Air) are in closed position and the pressure is relieved from the entire system.
 - Danger of high-pressure water/chemical if service is performed without relieving pressure from the system (MED. RISK)

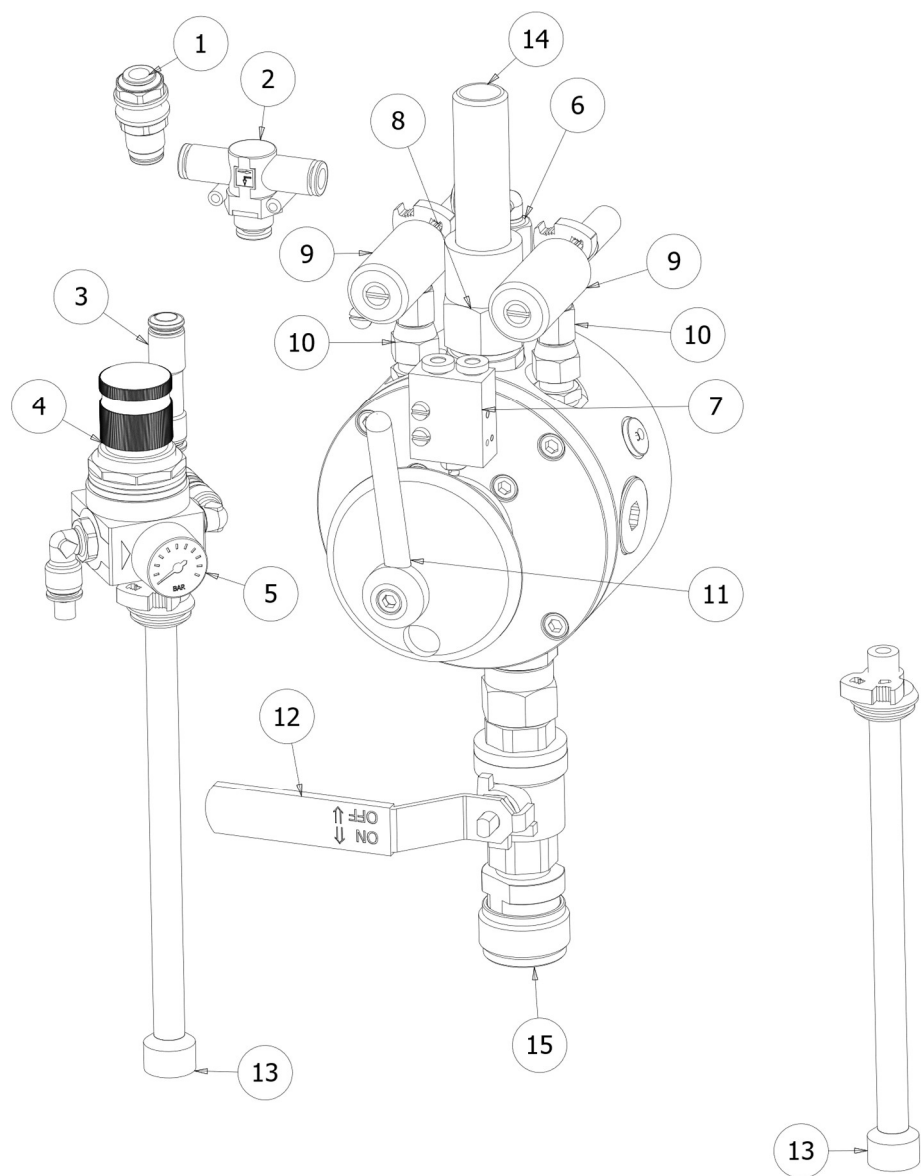
Safety signs:

Following pictograms are posted on the equipment (size is 60x60mm)

Scale shown (1:1)



Main function elements



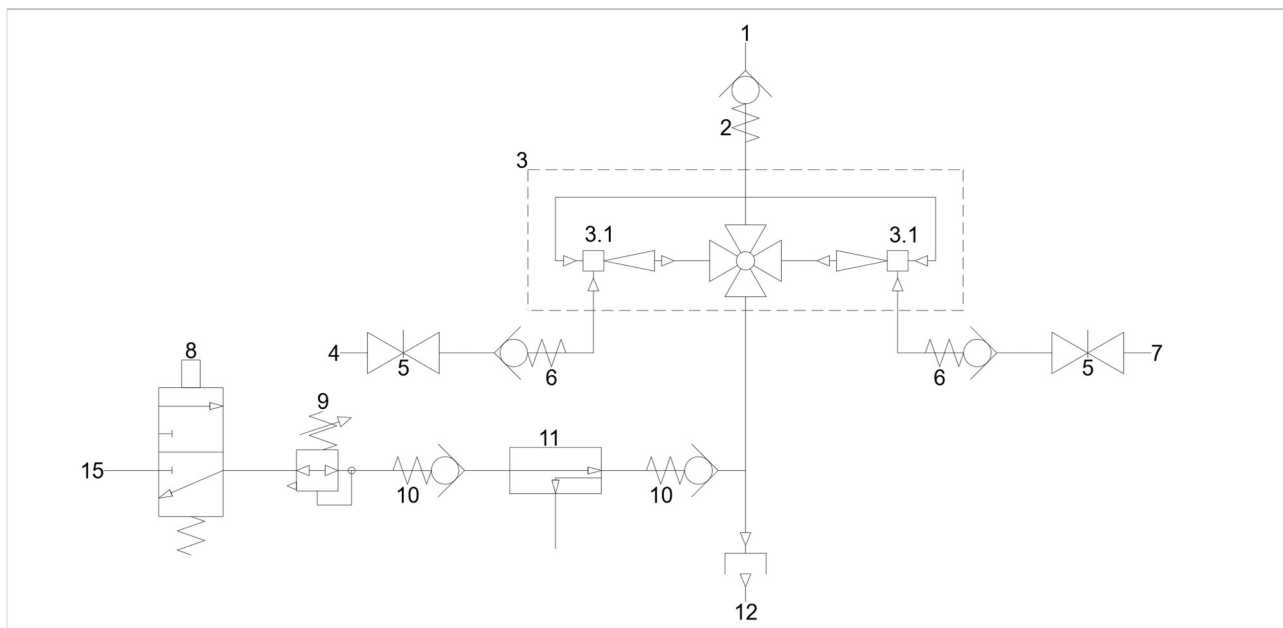
ID	Description
1	Air inlet
2	Backflow preventer
3	Air non-return valve 1
4	Air pressure regulator
5	Pressure gauge
6	Air non-return valve 2
7	Air valve
8	Water non-return valve
9	Chemical dosing valve
10	Chemical non-return valve
11	Function selector
12	Outlet ball valve
13	Chemical strainer
14	Water inlet
15	Outlet

Technical data

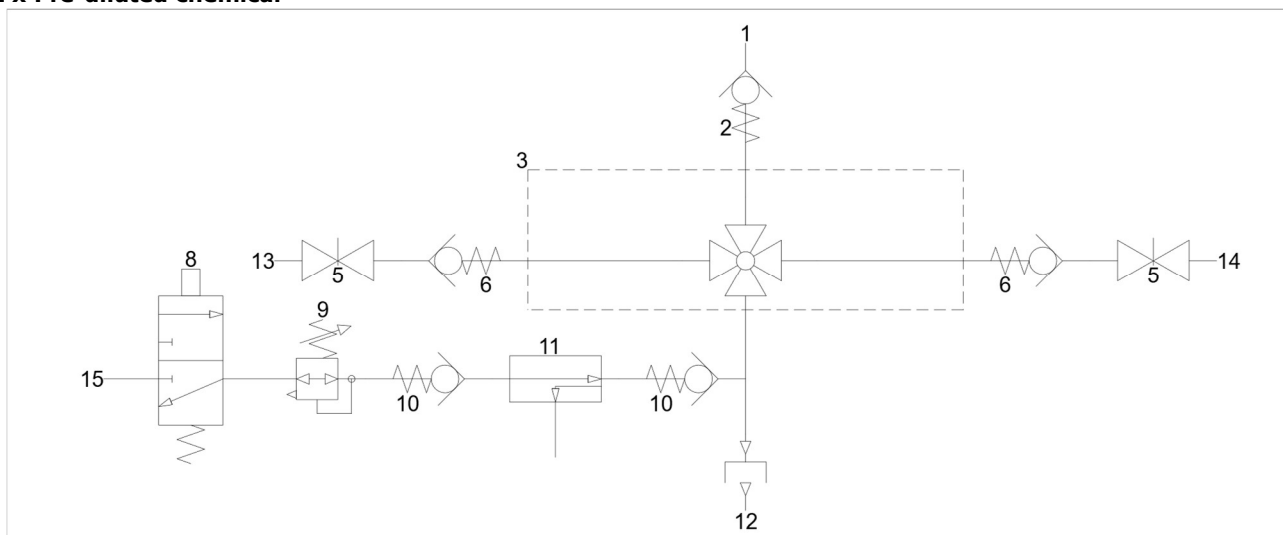
	Unit	Value
Installation		
Ambient temperature	C° / F°	3-40 / 37-104
Connections		
Air inlet	mm / thread	Ø8 / 1/4" NPT
Water inlet		1/2" BSPT / 1/2" NPT
Pre-diluted inlet		1/4" BSPT / 1/4" NPT
Outlet		SC coupling
Water		
Maximum pressure	Bar / psi	40 / 580
Temperature	C° / F°	3-70 / 37-160
Minimum recommended flow	liters/min / USgal/min	30 / 7,9
Air		
Pressure	Bar / psi	5-10 / 72-145
Minimum flow	liters/min / cfm	150 / 5,3
Chemical		
Maximum pressure pre-diluted	Bar / psi	12 / 174
Minimum pressure pre-diluted	Bar / psi	5 / 72
Minimum flow pre-diluted	liters/min / USgal/min	7 / 2
Dosing range concentrated	%	0,2-6 (Depending chemical)
Outlet hose		
Water pressure 3-8 bar / 44-116 psi	3/4", m / ft	10-15 / 33-49
Water pressure 15-25 bar / 218-580 psi	1/2", m / ft	10-35 / 33-115
Weight and measurements		
Weight	kg / lbs	10,8 / 23.8
Dimension HxLxD	mm / inch	375x335x205 / 15x13x8

Flowdiagram

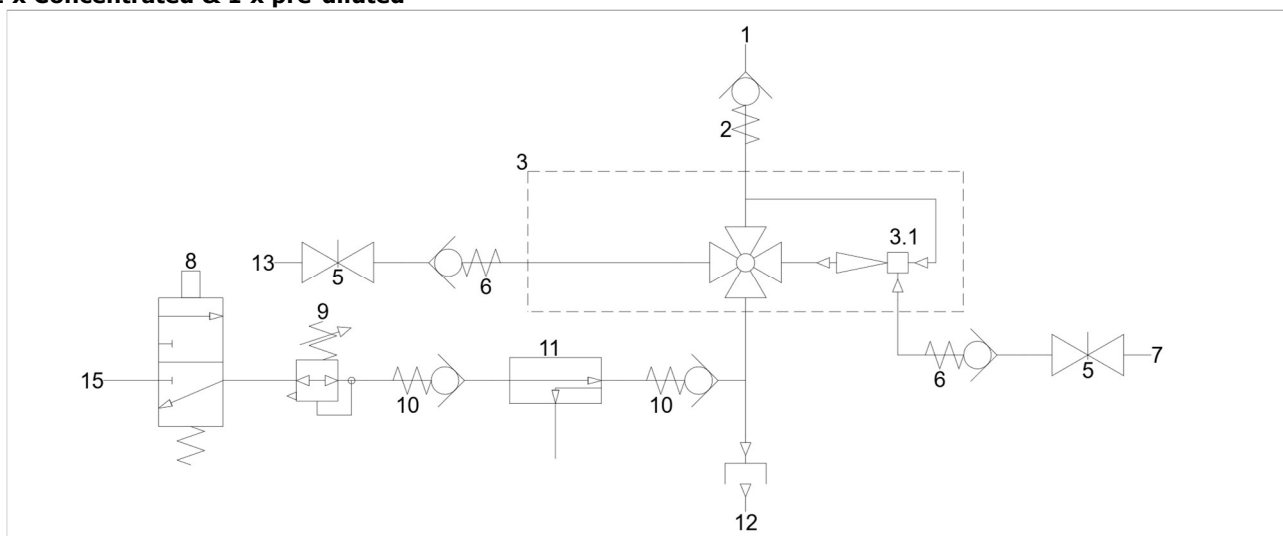
S3 2 x Concentrated chemicals



S3 2 x Pre-diluted chemical



S3 1 x Concentrated & 1 x pre-diluted



ID	Description
1	Water inlet
2	Water non-return valve
3	Ball valve unit
4	Concentrated chemical 1
5	Dosing valve
6	Concentrated chemical non-return valve
7	Concentrated chemical inlet 2
8	Air valve
9	Air regulator
10	Air non-return valve
11	Backflow preventer
12	Outlet
13	Pre-diluted chemical 1
14	Pre-diluted chemical 2

Transport, handling, storage

Transport and handling

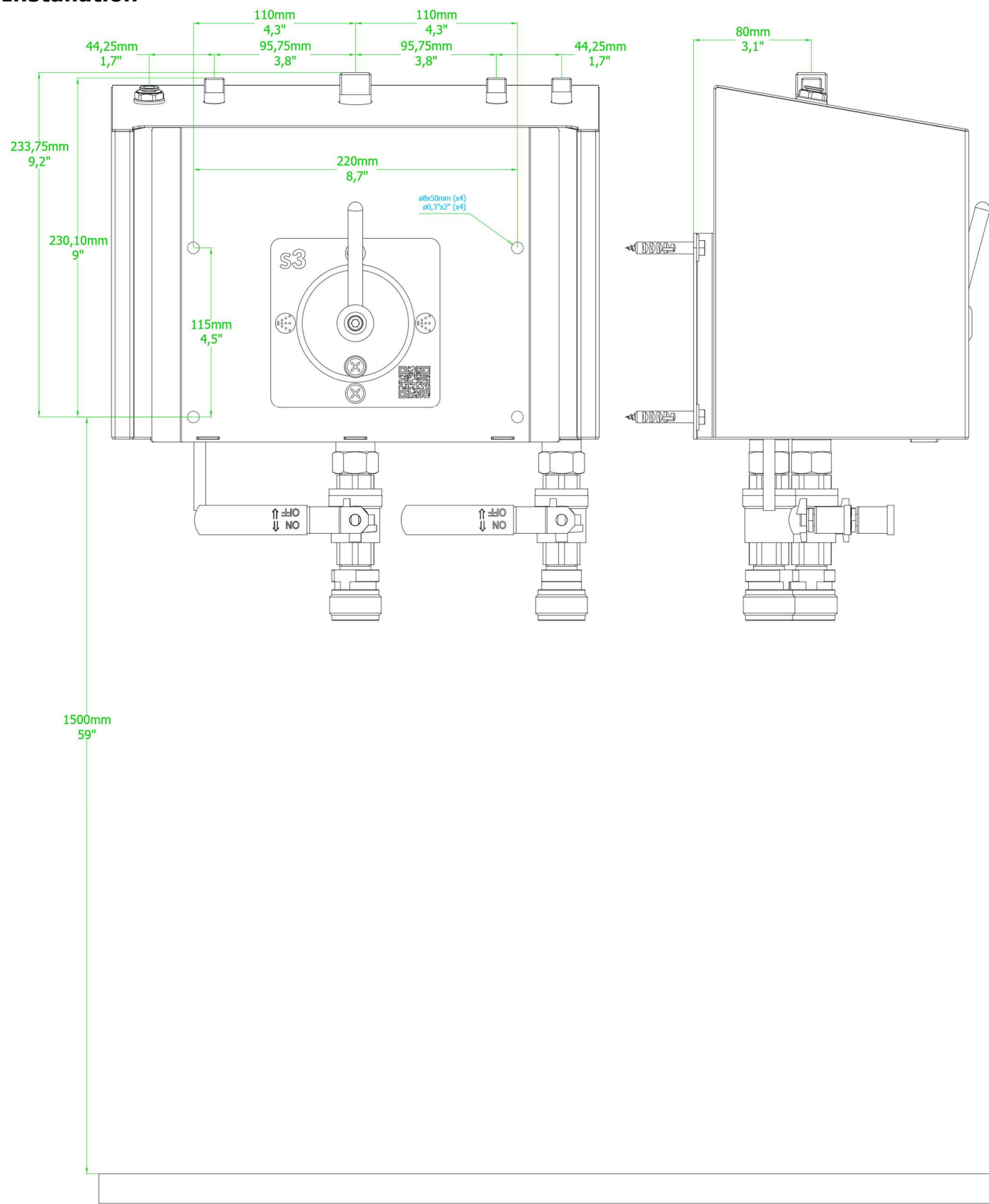
Attention must be paid when lifting the system, due to it's relative high weight

Storage

When storing the system, the ambient temperature must be kept above freezing point.

After long time storage the system must be flushed before using it in the production.

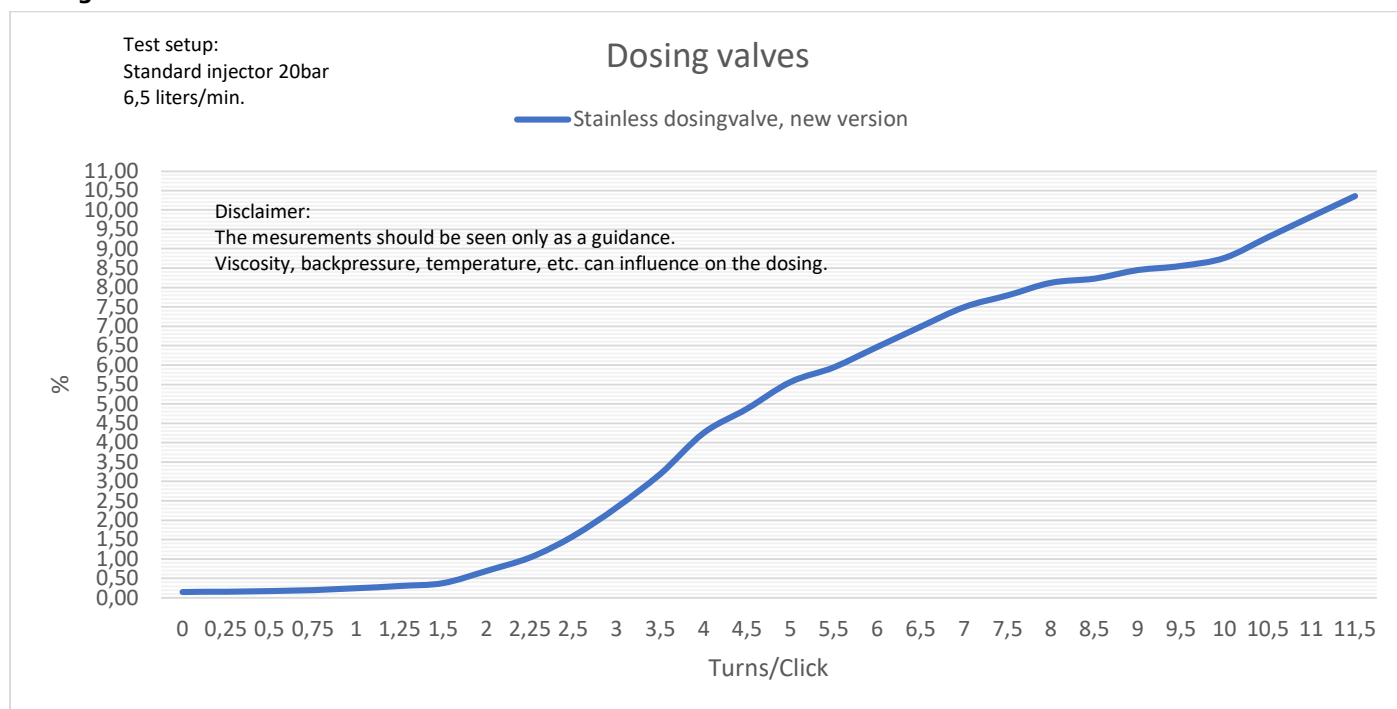
Installation



Part number	Installation kit
96-010090	2 x Concentrated chemical
96-010091	1 x Concentrated chemical & 1 x pre-diluted chemical
96-010092	2 x pre-diluted chemical
96-010093	3 x pre-diluted chemical

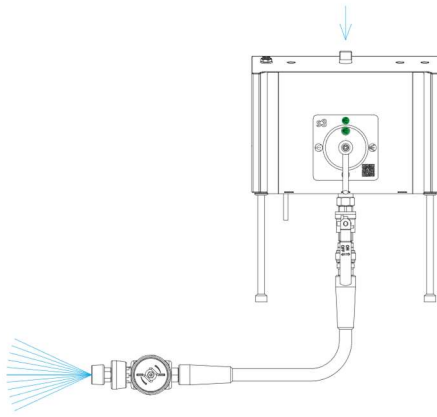
Operation

Dosing valve

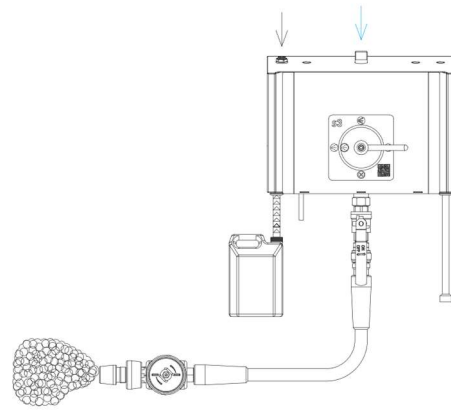


Quick guide F D

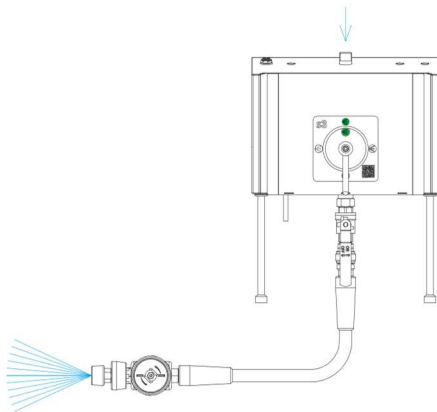
Step 1 – Pre-rinse



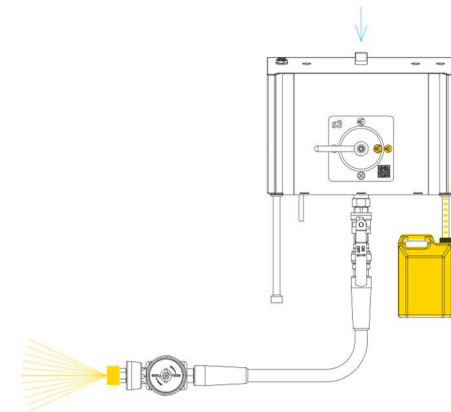
Step 2 – Foam



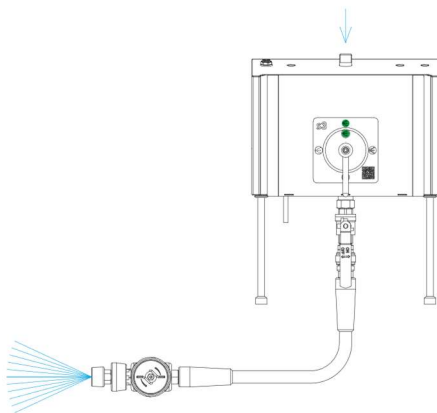
Step 3 – Rinse



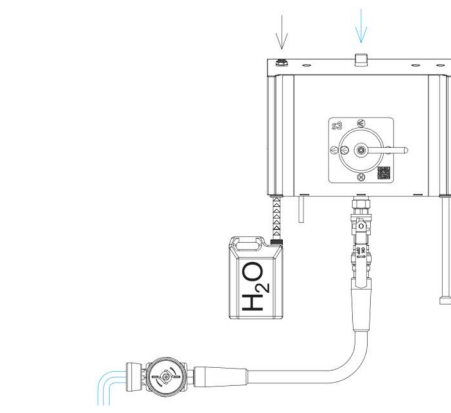
Step 4 – Disinfection



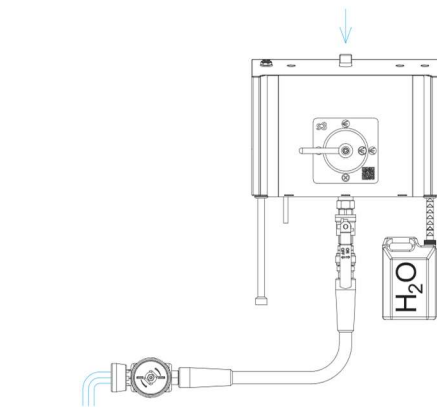
Step 5 – Rinse



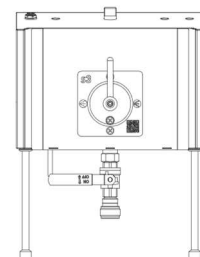
Step 6 – Chemical 1 flush



Step 7 – Chemical 2 flush

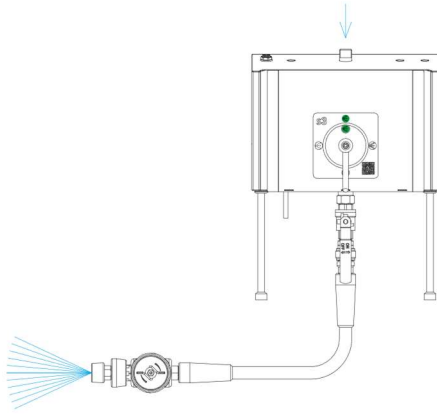


Step 8 – Close all valves

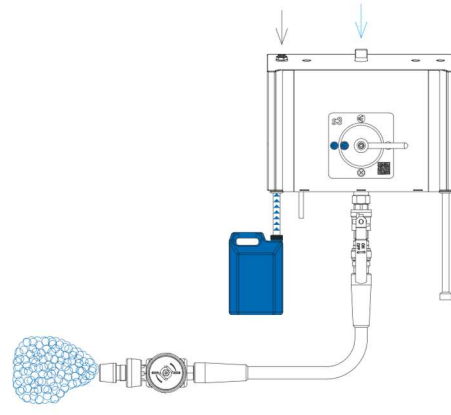


Quick guide F F

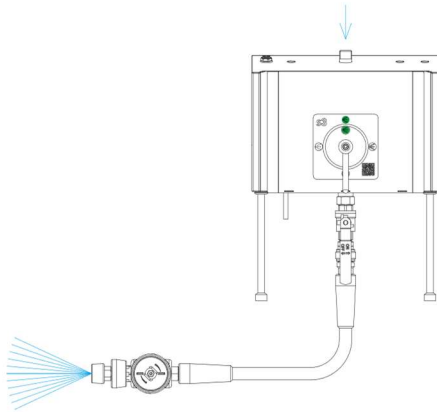
Step 1 – Pre-rinse



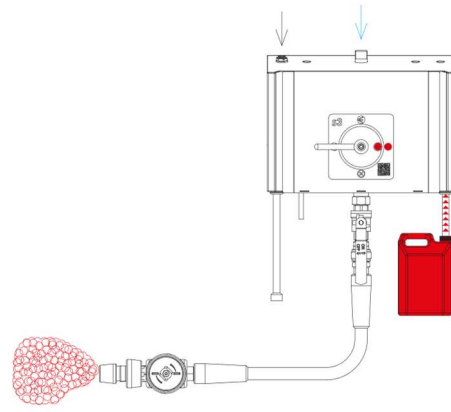
Step 2 – Foam 1



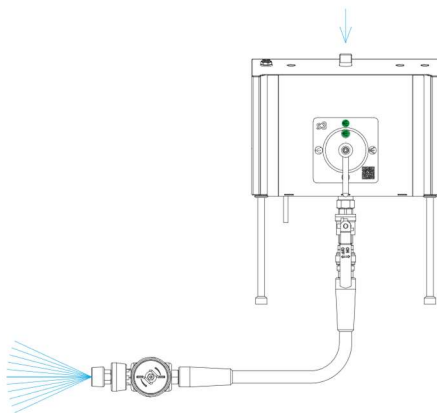
Step 3 – Rinse



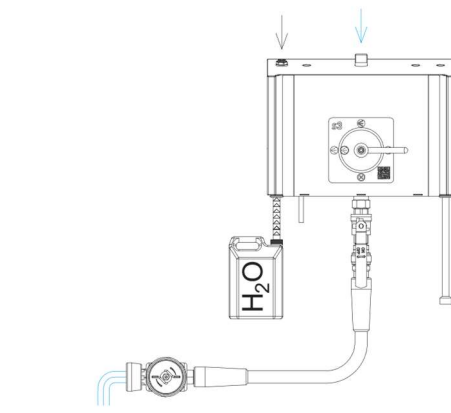
Step 4 – Foam 2



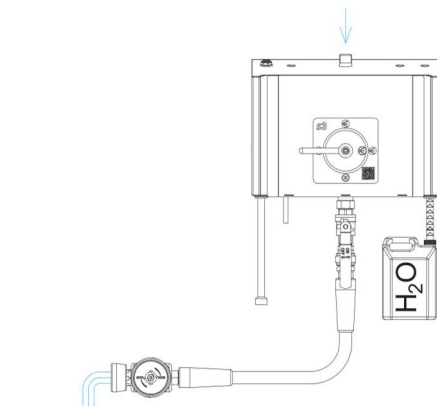
Step 5 – Rinse



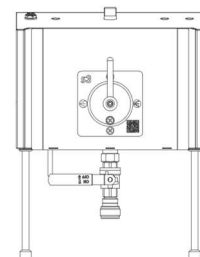
Step 6 – Chemical 1 flush



Step 7 – Chemical 2 flush

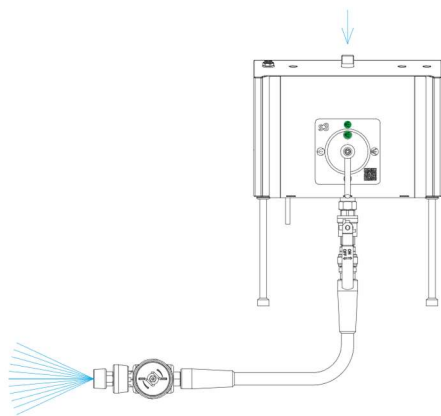


Step 8 – Close all valves

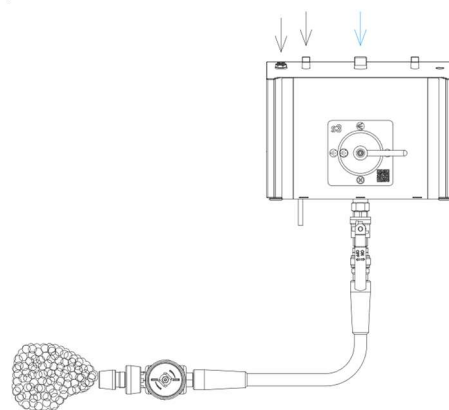


Quick guide PF PD

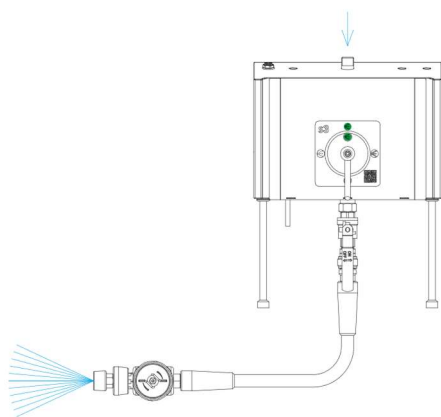
Step 1 – Pre-rinse



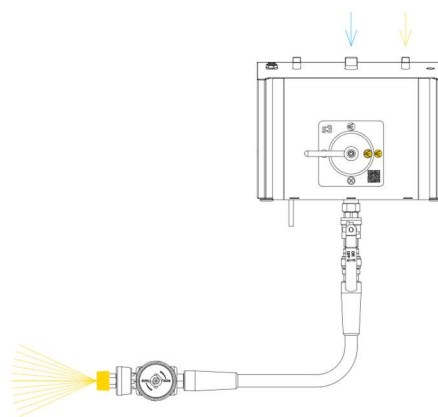
Step 2 – Foam



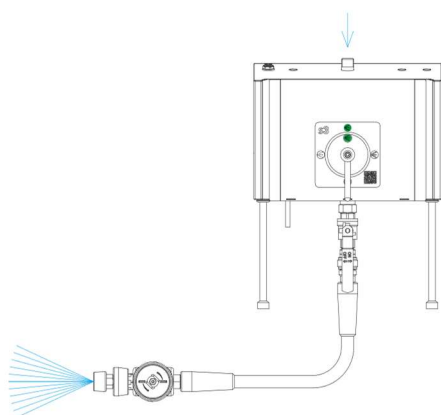
Step 3 – Rinse



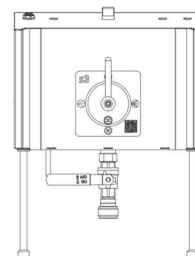
Step 4 – Disinfection



Step 5 – Rinse

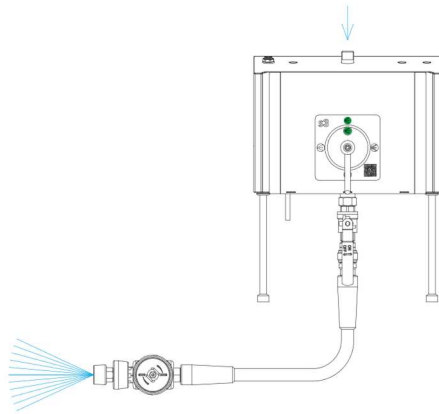


Step 6 – Close all valves

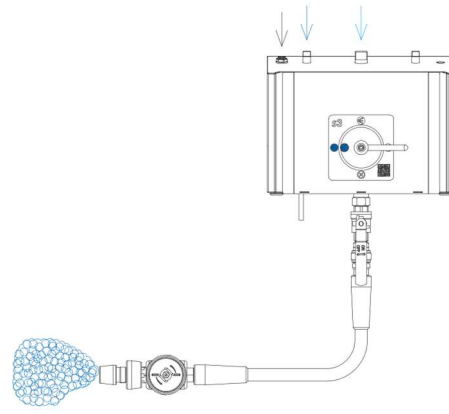


Quick guide PF PF

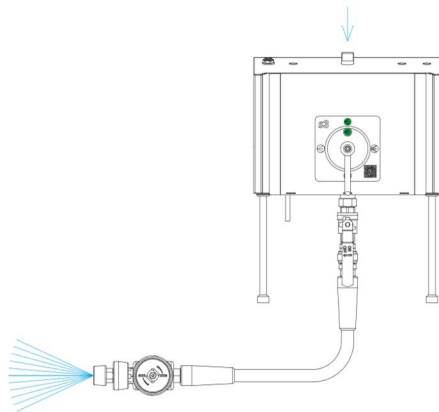
Step 1 – Pre-rinse



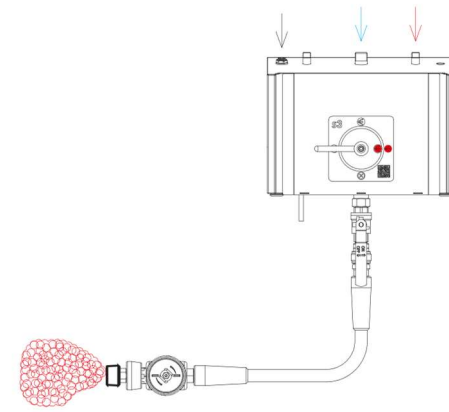
Step 2 – Foam 1



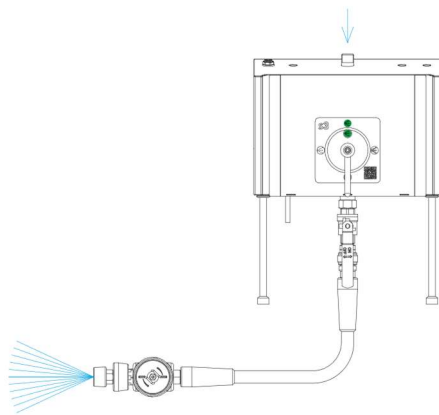
Step 3 – Rinse



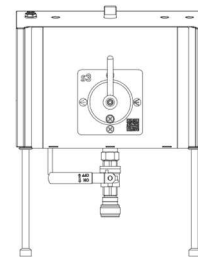
Step 4 – Foam 2



Step 5 – Rinse

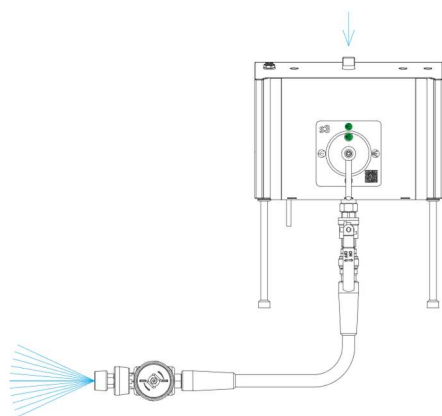


Step 6 – Close all valves

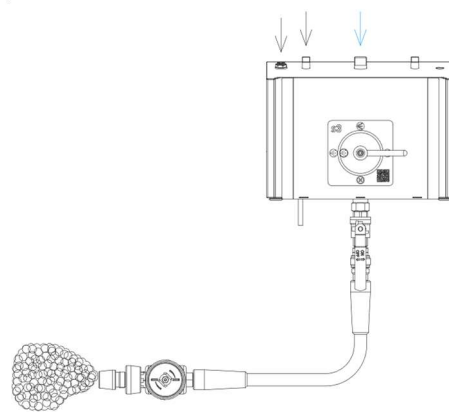


Quick guide PF D

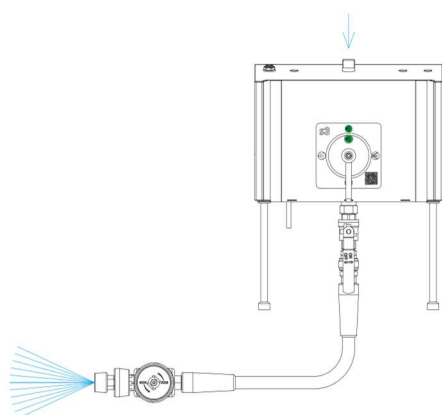
Step 1 – Pre-rinse



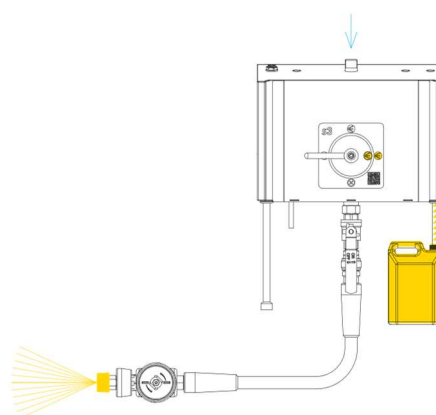
Step 2 – Foam 1



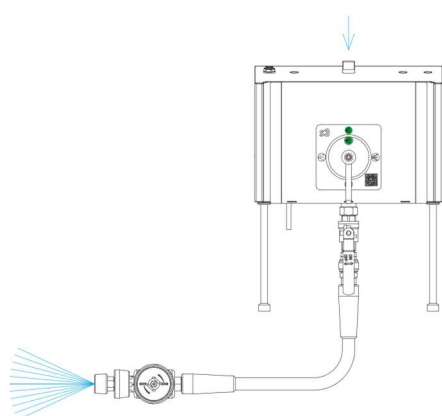
Step 3 – Rinse



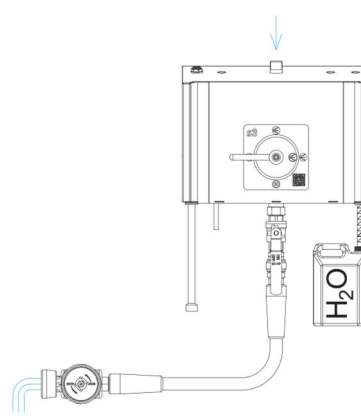
Step 4 – Disinfection



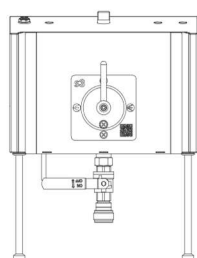
Step 5 – Rinse



Step 6 – Chemical 2 flush

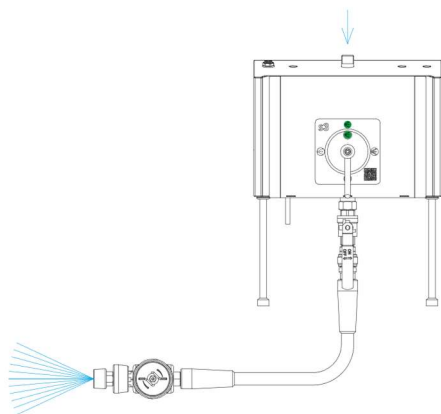


Step 7 – Close all valves

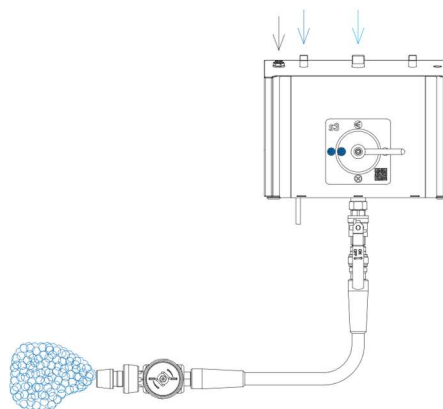


Quick guide PF F

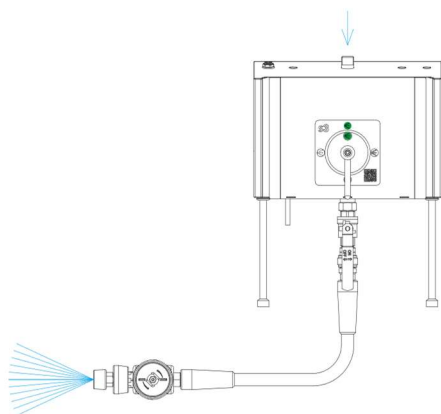
Step 1 – Pre-rinse



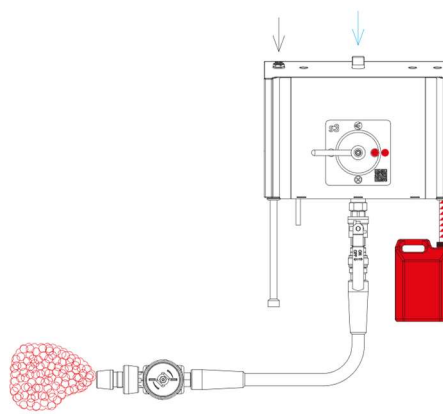
Step 2 – Foam 1



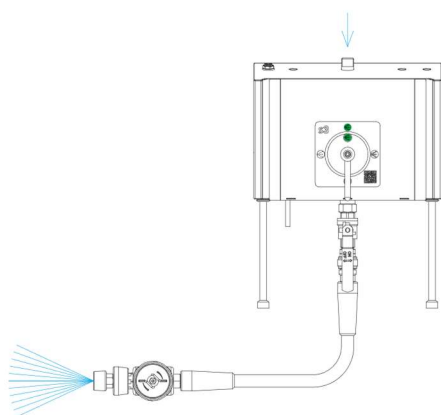
Step 3 – Rinse



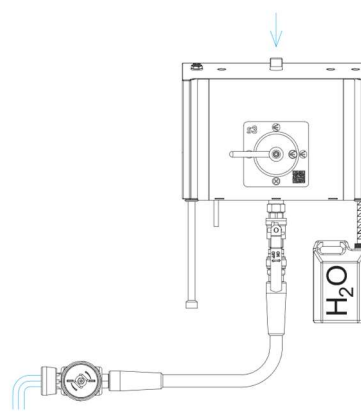
Step 4 – Foam 2



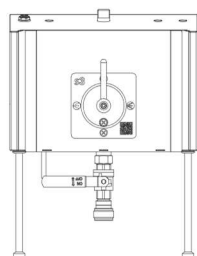
Step 5 – Rinse



Step 6 – Chemical 2 flush

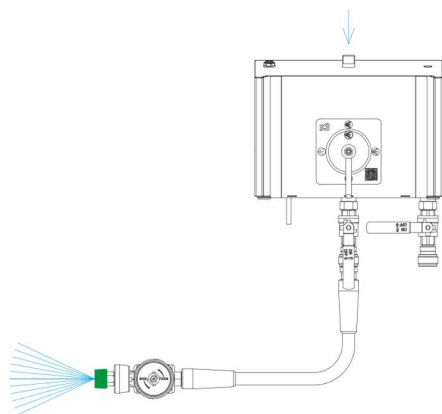


Step 7 – Close all valves

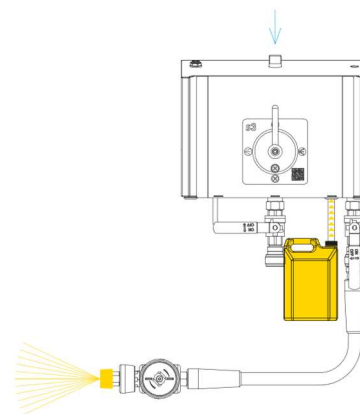


Quick guide Sep. D

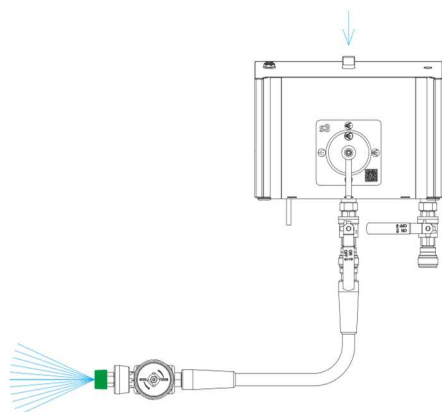
Step 1 – Pre-rinse



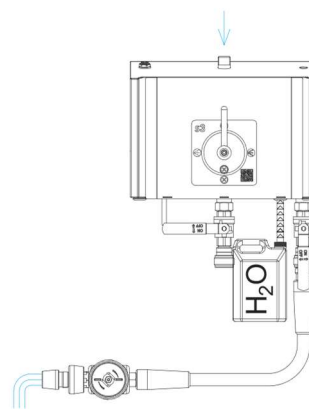
Step 2 – Disinfection



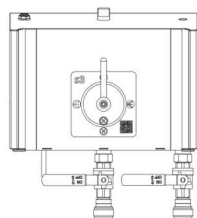
Step 3 – Rinse



Step 4 – Flush

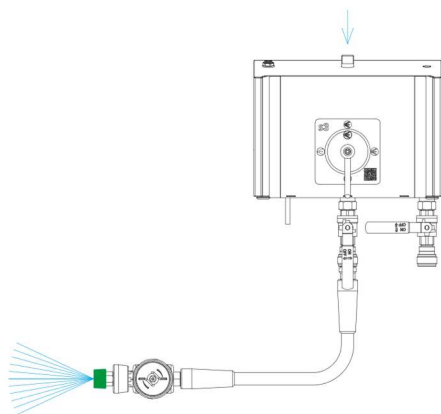


Step 5 – Close all valves

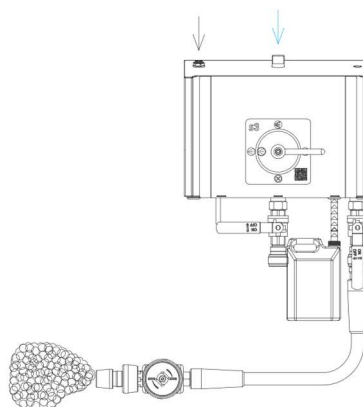


Quick guide Sep. F

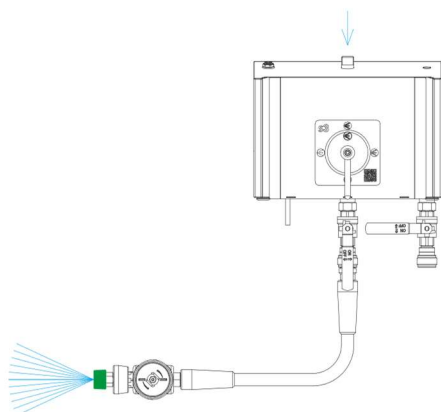
Step 1 – Pre-rinse



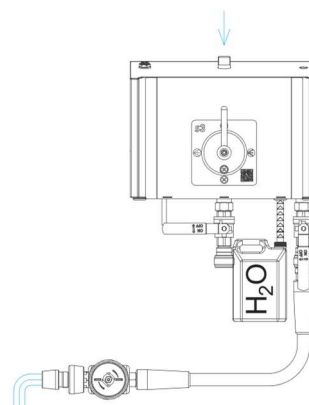
Step 2 – Foam



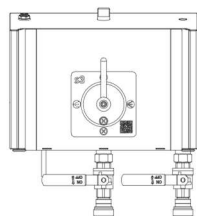
Step 3 – Rinse



Step 4 – Flush

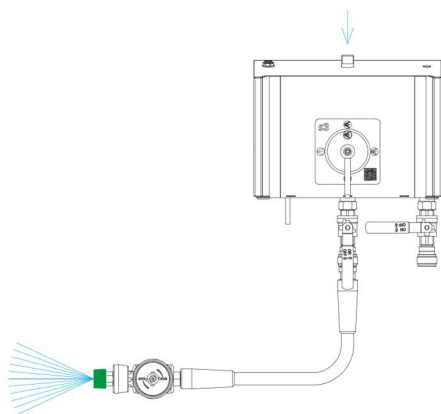


Step 5 – Close all valves

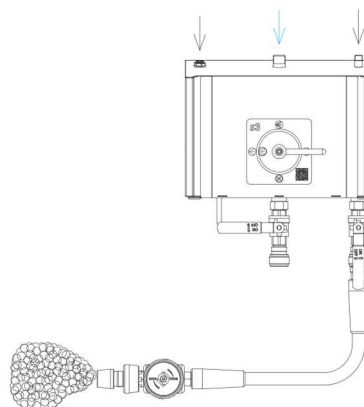


Quick guide Sep. PF

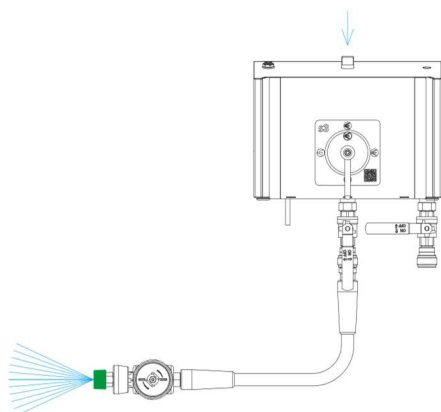
Step 1 – Pre-rinse



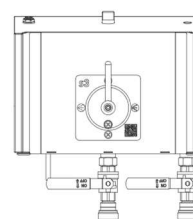
Step 2 – Foam 1



Step 3 – Rinse

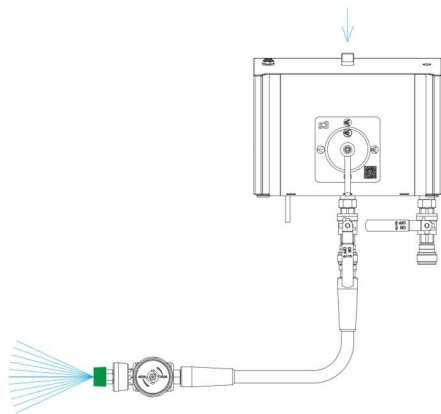


Step 4 – Close all valves

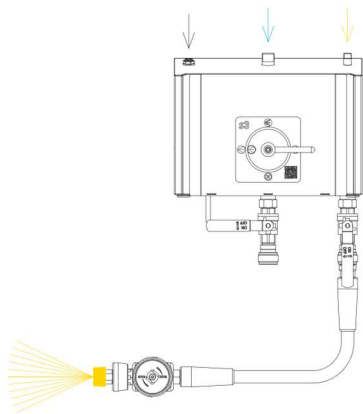


Quick guide Sep. PD

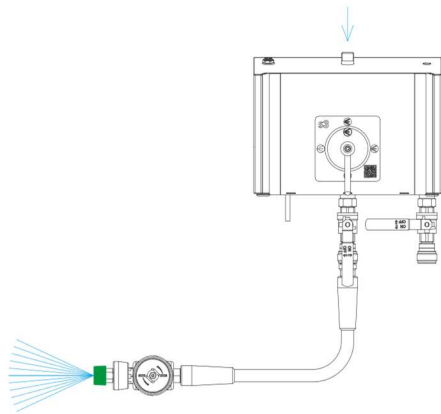
Step 1 – Pre-rinse



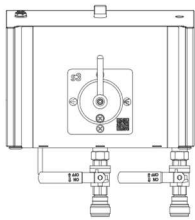
Step 2 – Disinfection



Step 3 – Rinse



Step 4 – Close all valves



Maintenance

Non-return valves:

Both water, chemical and air non-return valves should be checked every week.

Water non-return valve protects the fresh water supply against backflow of chemical from the satellite

There are two non-return valves on the air system, between the non-return valves there are a backflow protector. The purpose is to protect the air supply

There is a non-return valve on each chemical inlet. The purpose is to prevent water getting into the chemical canister

It is recommended to service all non-return valves once every year

Suction hose and suction filter:

Both filter and hose should be inspected every week

It is recommended to change both filter and hose every year

Hose:

Hose should be inspected every week, it is subject to much mechanical wear and tear

It is recommended to replace the hose every year because of safety

Low pressure valve / gun:

Low pressure valve/gun should be checked every week

The nut on the low pressure valve should be tightened regularly.

If any damage is seen on low pressure valve/gun they should be replaced because of safety.

Injector:

The water nozzle is subject to scaling. It should be checked once every month

Descale if the water nozzle is clogged.

Service kits:

Yearly service kit (F D) 96-010125

Yearly service kit (F D + F) 96-010130

Yearly service kit (F F) 96-010135

Yearly service kit (F F + F) 96-010140

Yearly service kit (F F + D) 96-010145

Yearly service kit (F F + PF/PD) 96-010150

Yearly service kit (PF/PD D + F) 96-010155

Yearly service kit (PF/PD F + PF/PD) 96-010160

Yearly service kit (PF/PD D + PF/PD) 96-010165

Yearly service kit (PF/PD PF/PD + F) 96-010170

Yearly service kit (PF/PD PF/PD + D) 96-010175

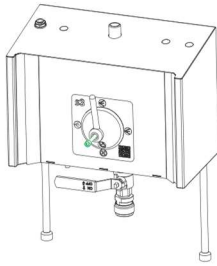
Yearly service kit (PF/PD PF/PD + PF/PD) 96-010180

Rebuild kit main valve 96-010110

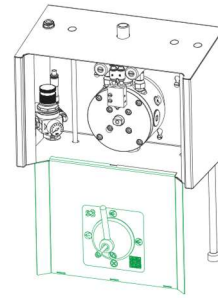


Quick guide open lid

Step 1- Loosen handle. The function selector must be in the closed position

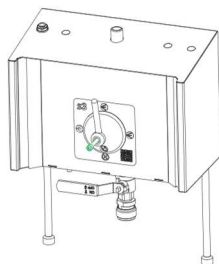


Step 2 – Hang lid on cabinet

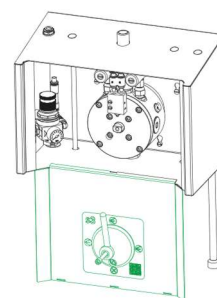


Quick guide remove water non-return valve

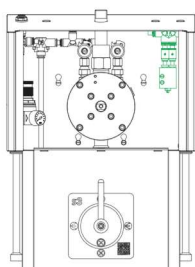
Step 1- Loosen handle. The function selector must be in the closed position



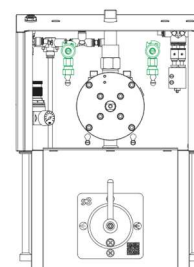
Step 2 – Hang the lid on cabinet



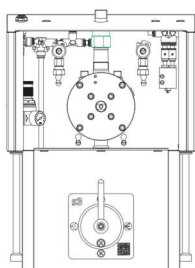
Step 3 – Move air valve



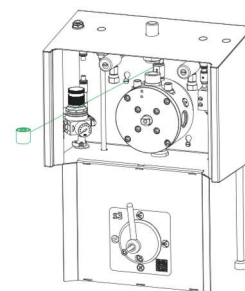
Step 4 – Move dosing valves



Step 5 – Loosen nut

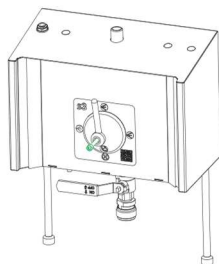


Step 6 – Remove non-return valve

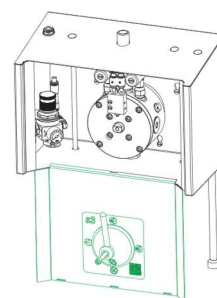


Quick guide descaling water nozzles

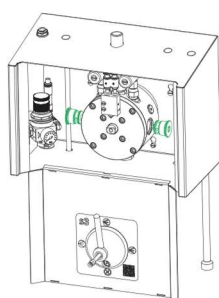
Step 1- Loosen handle. The function selector must be in the closed position



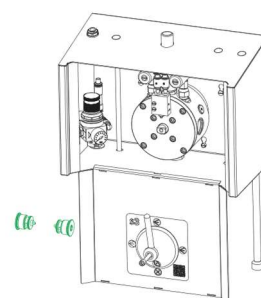
Step 2 – Hang the lid on cabinet



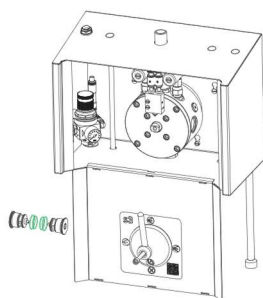
Step 3 – Unscrew water nozzles



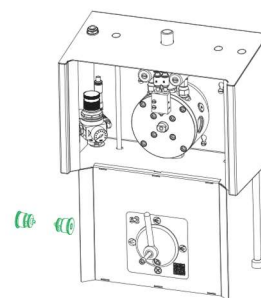
Step 4 – Remove water nozzles



Step 5 – Remove o-rings from water nozzles



Step 6 – Descal water nozzles



Troubleshooting

Fault	Cause	Action
No rinse pressure	No pressure on water	Start pumpstation
	Ball valve on top of system is closed	Open valve
	Too many users at the same time	Wait until number of users is below recommended
	Wrong size rinse nozzle	Use the original System Cleaners rinse nozzle
	Wrong function selected	Select rinse function on handle
Poor foam quality	Chemical product is not a foaming product	Replace product with a foaming product
	Incorrect dosing	Adjust the dosing according to chemical supplier's specifications
	Suction filter or chemical restrictor are blocked by chemical residue	Clean the suction filter or chemical restrictor
	Water pressure is too low	Make sure that the water supply is as described in the technical specifications
	Air pressure too low	Increase air pressure
	Non-original foam nozzle fitted	Replace with original white foam nozzle
The unit does not suck up detergent	Function selector is not in the correct position	Turn function selector switch to desired function
	Suction filter or chemical restrictor are blocked by chemical residue	Clean the suction filter or chemical restrictor
	Water pressure is too low	Make sure that the water supply is as described in the technical specifications
	Suction filter is above the fluid level in chemical container	Position the suction filter below fluid level



Disposal

This product and parts of it must be disposed in an environmentally sound way

Use the public or private waste collection services.

If above isn't possible please contact nearest System Cleaners representant.



Member of AxFlow Group

System Cleaners A/S

Halkjærvej 17

DK-9200 Aalborg SV

Denmark

Tel.: +45 96 34 04 04

info@systemcleaners.com

www.systemcleaners.com

Please note:

We reserve the right to make alterations to the technical specifications without notice.