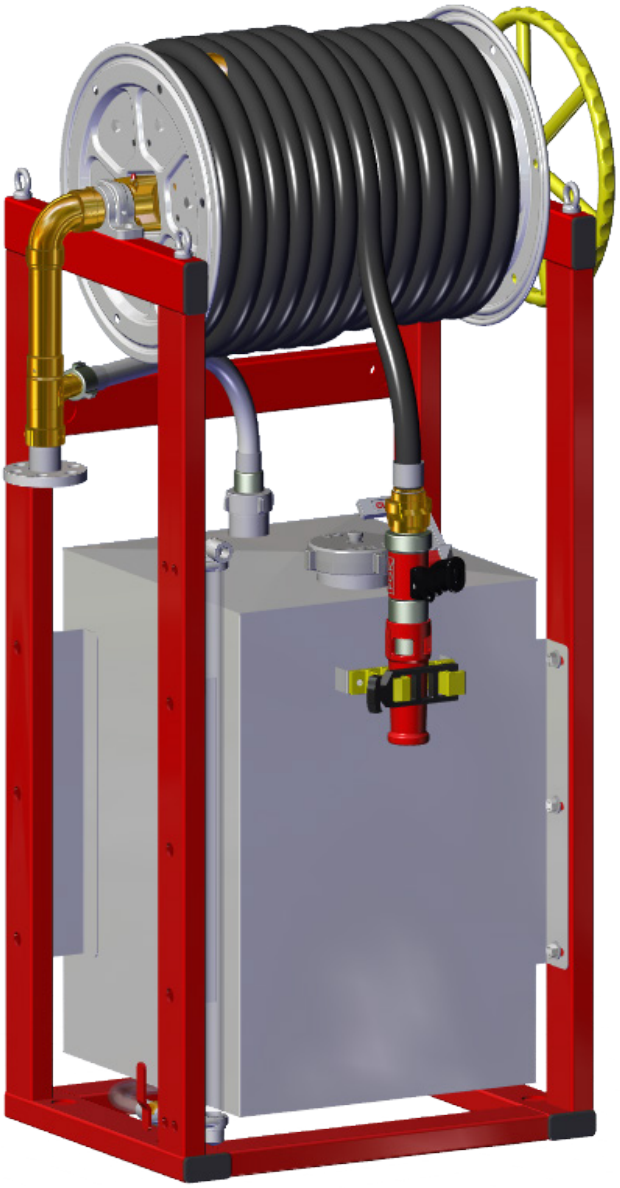
POK
FIREFIGHTING EQUIPMENT



User manual

Foam station 200 LPM

Rectangular tank 200 L - Pipe DN33 30m - visualizer Inlet flange DN40 GB569-1965

MOP_STM_02320_EN_A - 31/03/2021

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DESIGNATION	DESCRIPTION
Product type	Foam station
Product	• Foam station 200 LPM, Rectangular tank 200 L, pipe DN33 30m, visualizer, inlet flange DN40 GB569-1965, eductor 200 LPM @ 7 bar 45200, Foam hand nozzle U-C 200 LPM 30319
Products references concerned by the manual	45116 References used for all visuals: 45116, 45200 and 30319
Number of documentation	MOP_STM_02320_EN
Language	English
Creation Date	02/04/2021
Last modification	-
Review follow up	Rev. A - 02/04/2021: - Original file

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• Note

POK SAS reserves the right to change or modify the specifications of its products at any time to incorporate the latest technological and regulatory developments. The information contained in this document is subject to change without notice.

• General Warning

Please read the information contained in this operating manual before using the equipment. The use, maintenance, or any other operation of the equipment, must be carried out exclusively by personnel informed of safety rules and trained in the use of this material.
The non-compliance of safety instructions can be dangerous and cause serious bodily harm and/or property damage.

• Security

This symbol indicates important safety tips. Pay careful attention to prevent serious bodily harm and/or property damage.

This symbol indicates instructions that must be observed to ensure smooth operation of the device. Please always make sure to follow all the necessary precautions.

INFORMATION

This symbol indicates useful information to know and understand the correct operation of the device.

• Introduction

Please read the information contained in this manual before using or operating the equipment.

The use, maintenance, or any other operation relating to the equipment must be carried out exclusively by personnel informed of the safety rules and trained in the use of this equipment.

While using the foam hose reel (use, maintenance, installation, ...) it is important to wear personal protective equipment.

• Dismantling and Warranty

This equipment has a warranty of 2 years for any fabrication default, except special written agreement.

The exploded views and parts lists are not a dismantling manual.

Any disassembly or maintenance work on the appliance must be carried out with the water supply switched off.

Dismantling and/or modification of the equipment outside POK SAS factory is allowed only in compliance with procedures described in this manual, and therefore does not affect the warranty.

If a repair takes place, spare parts must have been supplied by POK SAS. Otherwise, the technical specifications in this document will no longer be valid, the warranty will be invalid and the manufacturer's responsibility will no longer be committed.

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If a maintenance operation leads to a deterioration of parts, the guarantee may not be applicable if the procedure is not carried out in accordance with this manual.

Even if not specified in the disassembly instructions, the wearing of appropriate safety equipment is required to carry out maintenance operations. POK SAS cannot be responsible for any damage or accident which may occur during the dismantling. If this obligation is not met, please refer to the tools instructions guides for more details.

Only POK SAS is able to guarantee the proper functioning and safety of the equipment after dismantling. Accordingly, POK SAS cannot be held liable for any incidents caused as a result of the dismantling outside of its workshops.

Do not modify the equipment, it may not work properly or be dangerous for use. Any modification not approved by POK SAS will void the warranty.

• Use

Please respect the technical limitations of the equipment.

The equipment should not be used if a component is damaged or missing.

Never stand in front of the foam nozzle or point the foam nozzle at somebody. It can cause death.

Please note that use of the foam nozzle may cause damage in the area where stream is landing. Ensure that the area is safe and clear before the use.

It is important to know and respect the safety rules regarding your operating environment.

The operating pressure at the foam station inlet is 7 bar. The efficiency over this pressure is not guarantee.

The maximum working pressure is 16 bar, and the reliability of the equipment over this pressure is not guaranteed.

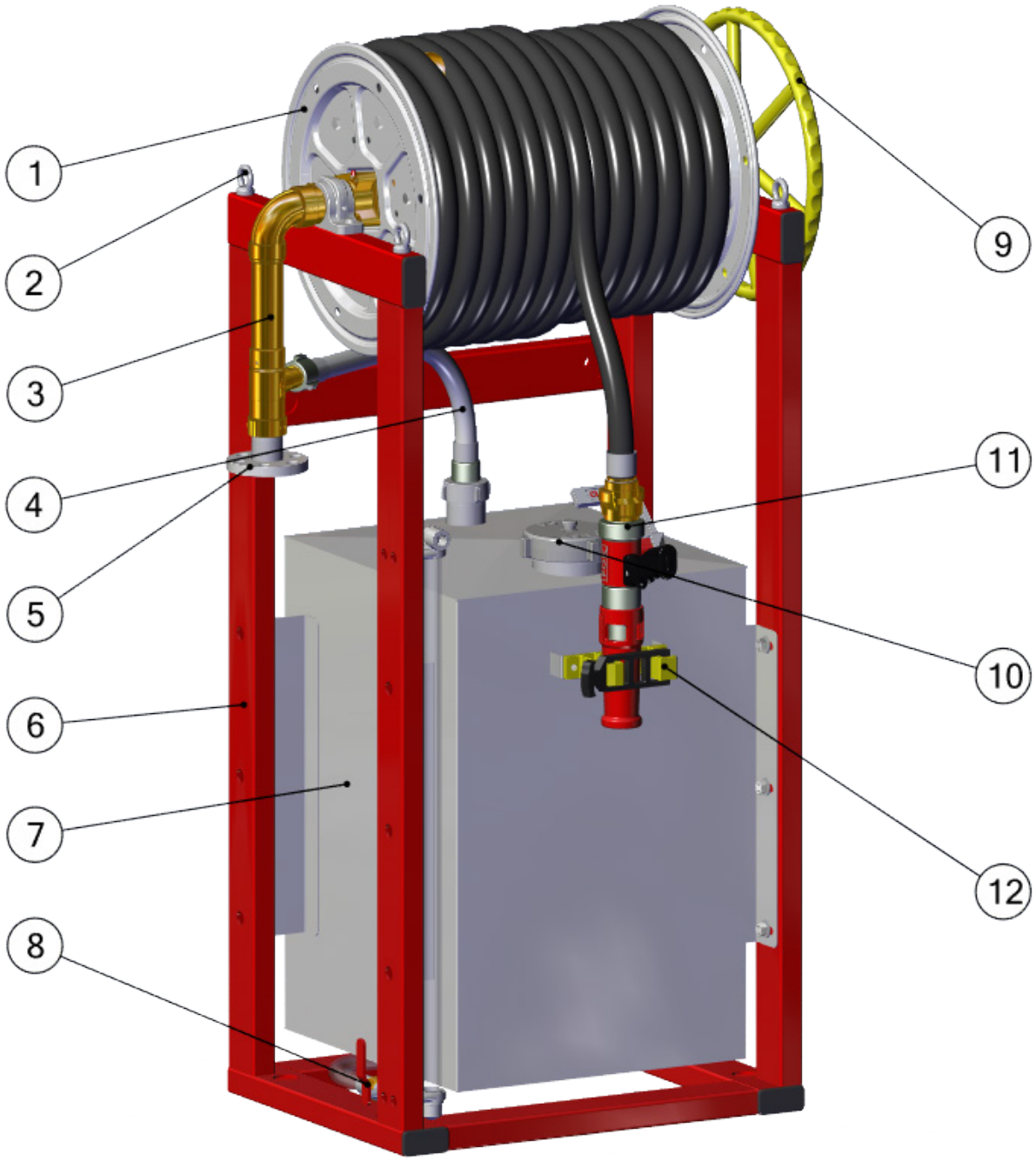
Disrespect of safety instructions and use of the foam station over the recommended pressure can be dangerous and even cause death.

POK SAS is not responsible of any accident that may occur during operation caused by improper use or non-compliance with safety requirements.

• Limits of use

POK guarantees the function of the foam station up to a maximum operating pressure of 16 BAR.
Our foam station are guaranteed to resist a maximum of 25.5 bar in a closed position.
Without explicit written authorization from POK, the warranty will be void if the pressures listed above are exceeded.

• Overview - Foam station



MARK	DESCRIPTION
1	Coil + pipe
2	Lifting hook
3	Eductor
4	Suction rod
5	Supply flange
6	Frame

MARK	DESCRIPTION
7	Tank
8	Flush of the tank
9	Rewind wheel
10	Tank filling port
11	Foam hand nozzle
12	Quick hitch

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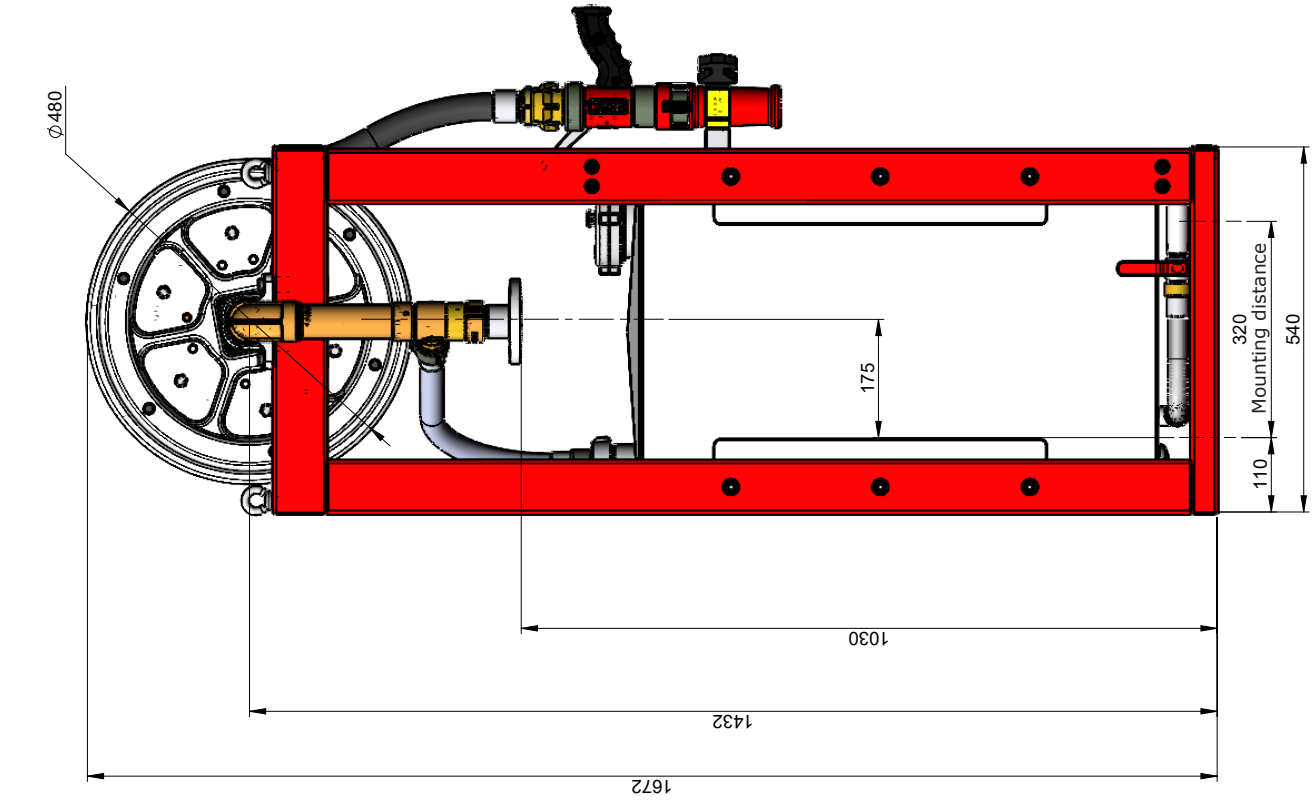
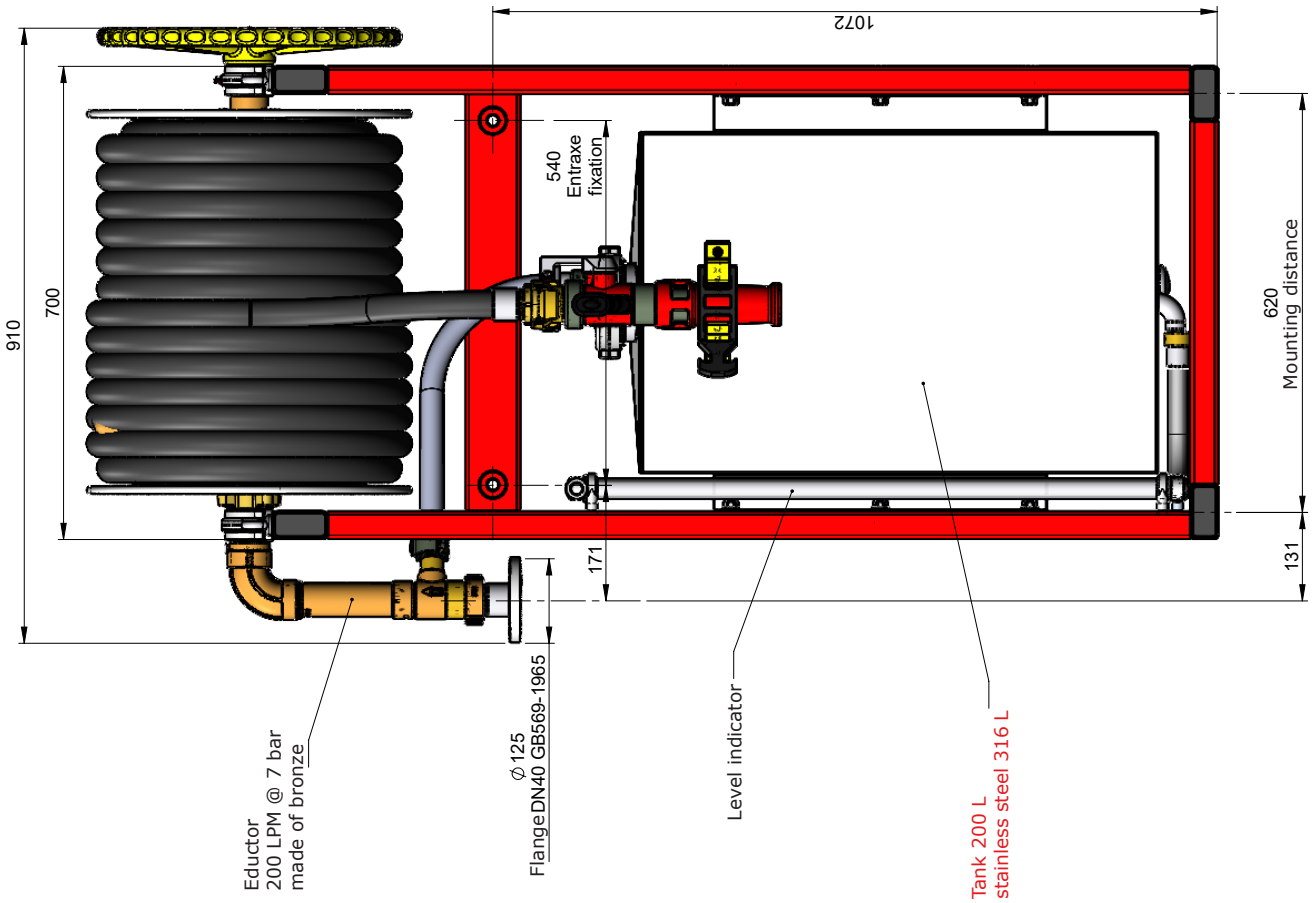
• Overall dimensions - Foam station

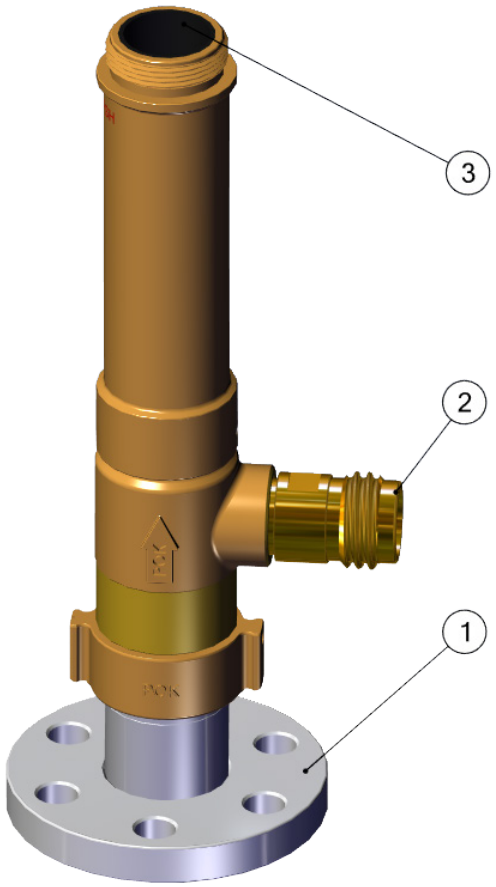


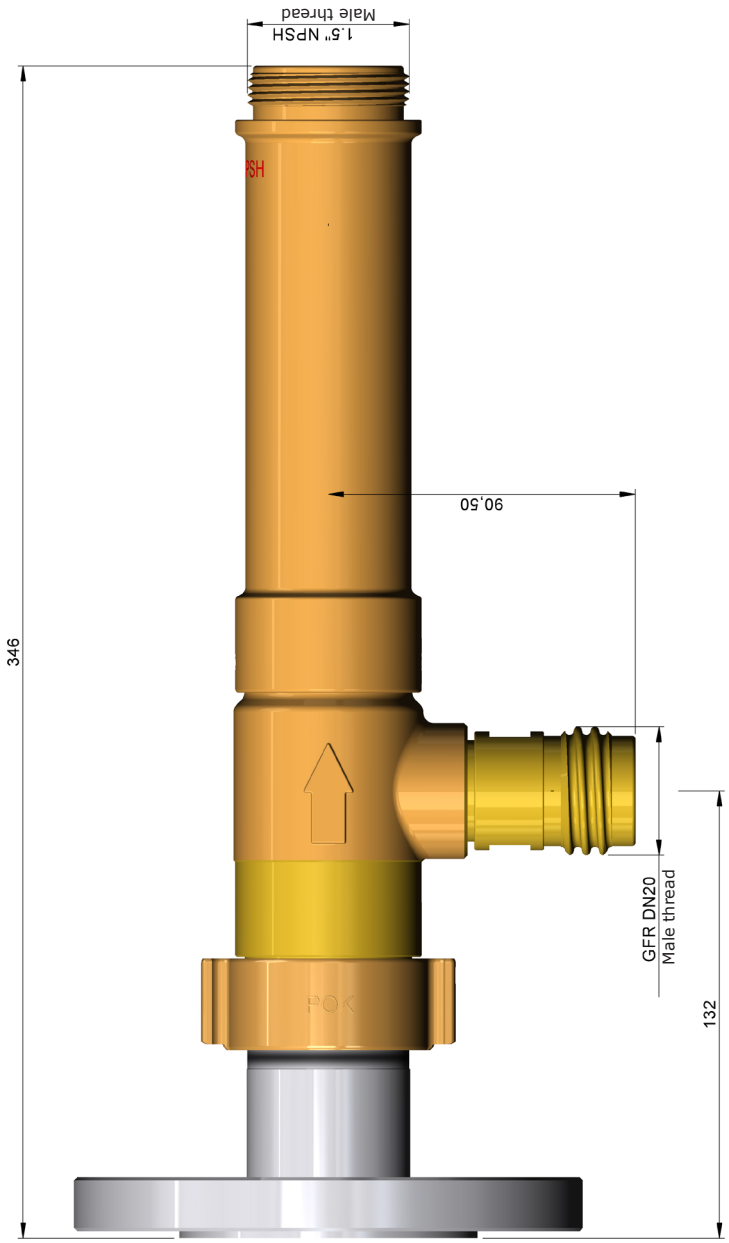


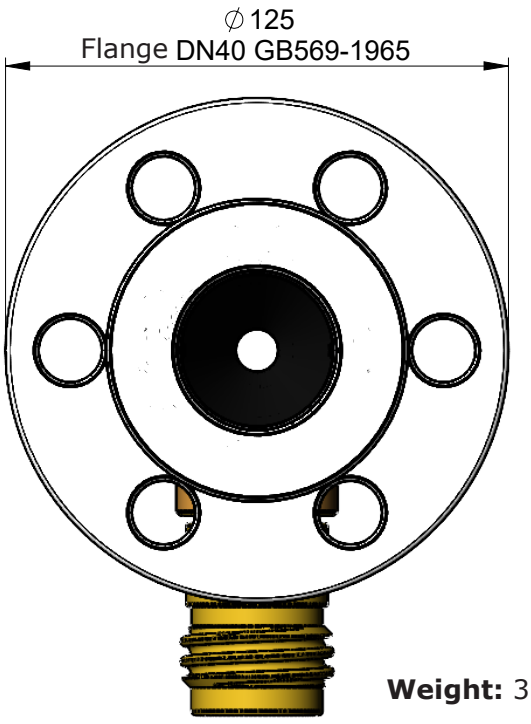
Weight: 125 Kg

• Overview - Eductor

N°	DESCRIPTION
1	Rotating water supply flange
2	Emulsifier inlet
3	Pre-mix output







Weight: 3.9 Kg

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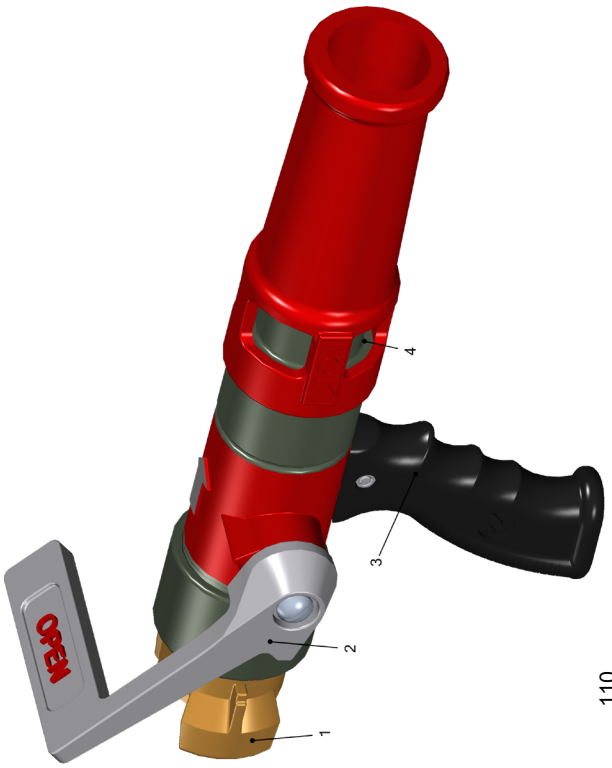
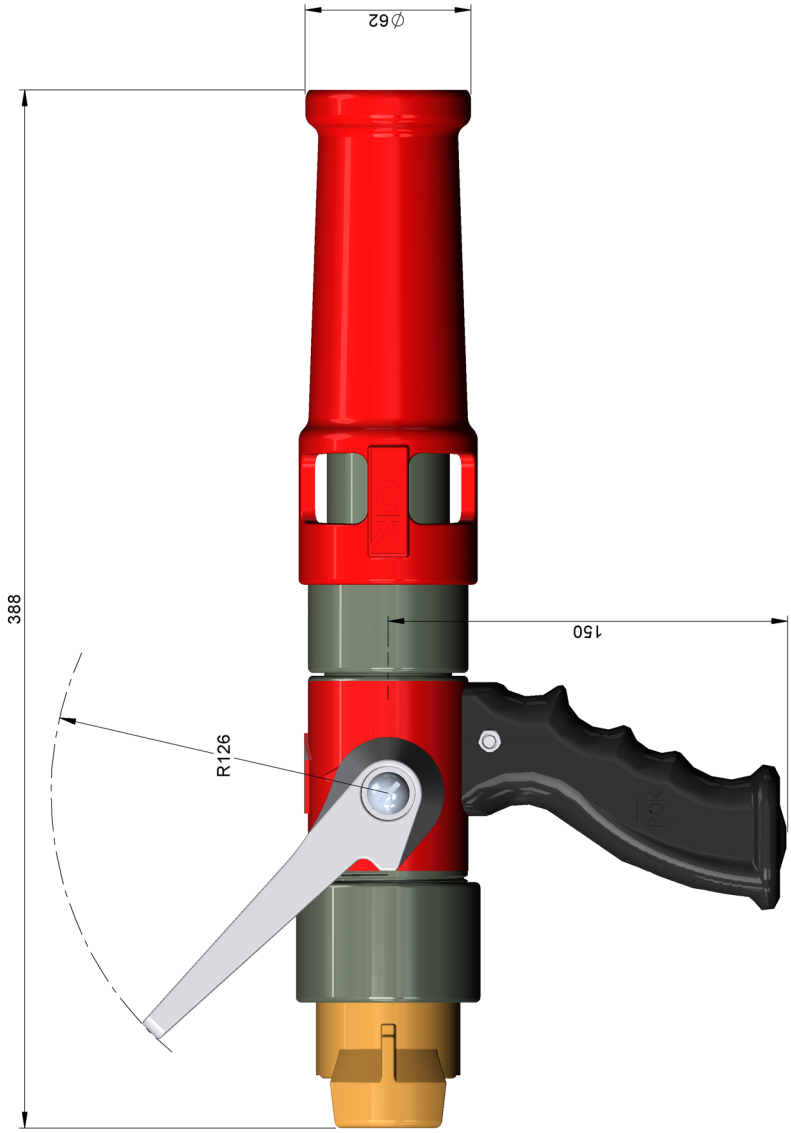
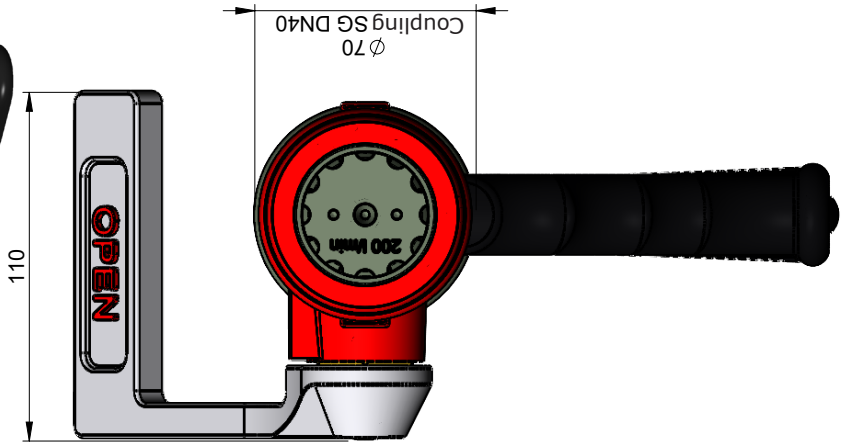
• Overview - Foam hand nozzle

N°	DESCRIPTION
1	Pre-mix inlet
2	Valve tap
3	Pistol handle
4	Air suction holes







Weight: 2.1 Kg

• Foam station

Construction	
Code	• **45116** with pipe DN33 30M
Frame	• Aluminium alloy • Coating: red polyester paint
Handwheel	• Aluminium alloy • Coating: yellow polyester paint
Coil	• Plate: stainless steel 316L • Spacer: aluminium alloy • Spacer coating: anodization
Tank	• Stainless steel 316L
Pipe	• PVC
Visualizer	• With level indicating ball • With 1/4-turn isolation shutoff

• Eductor

Construction	
Body	• Bronze

Hydraulic characteristics	
Inlet	• Flange DN40 GB569-1965
Working Pressure	7 bar
Flow rate (proportioner outlet)	200 LPM
Suction	3%

• Foam hand nozzle

Construction	
Body	• Aluminium alloy • Coating: red polyester paint & anodization
Coupling	• Bronze
Pistol handle	• Heat resistant polyurethane

Hydraulic characteristics	
Inlet	• Coupling SG DN40 without lock
Working Pressure	max.: 16 bar
Flow rate	max.: 200 LPM
Expansion	10

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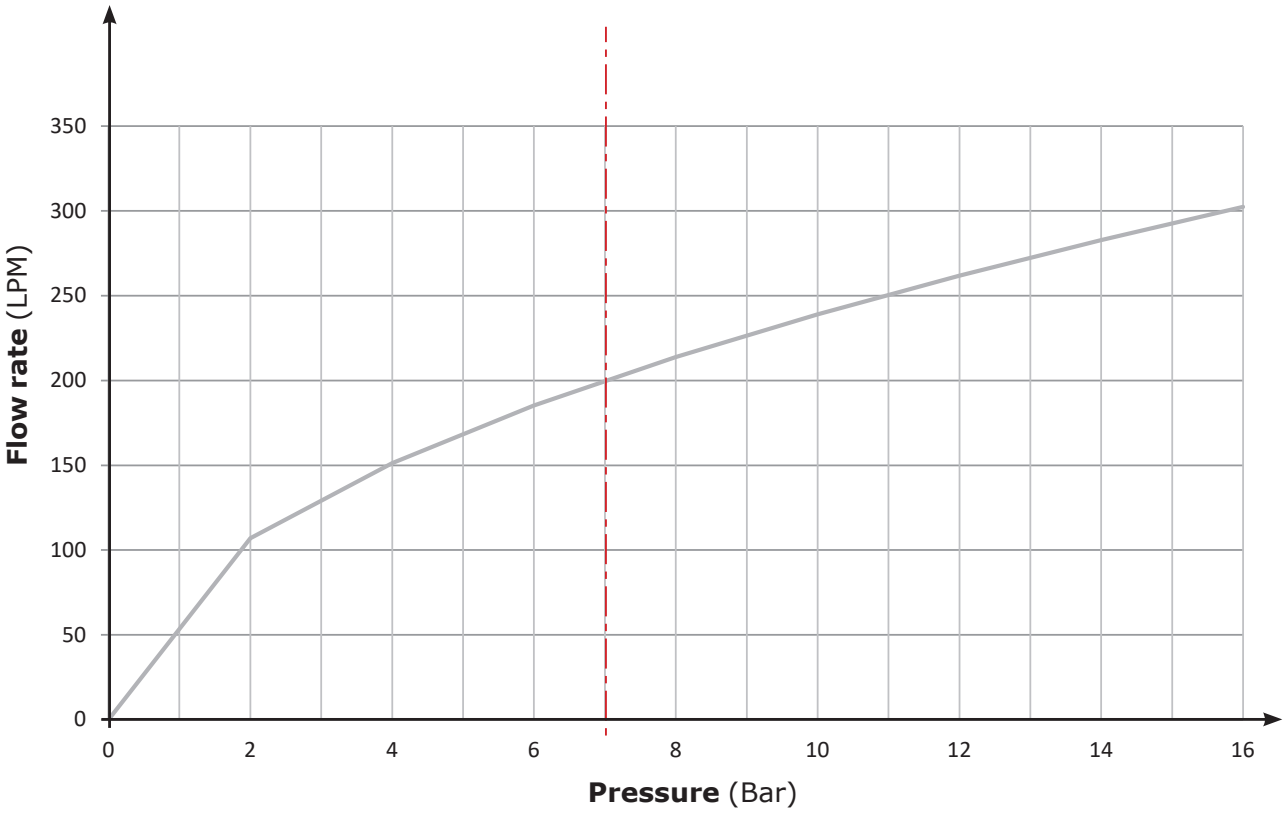
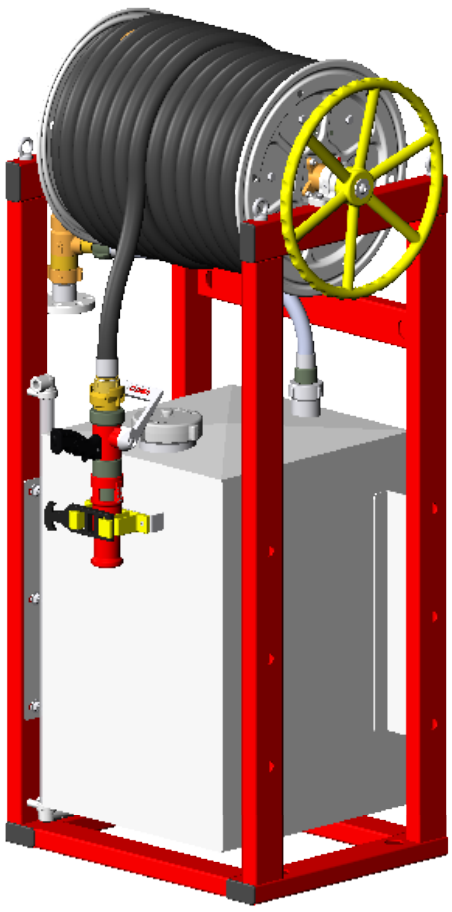
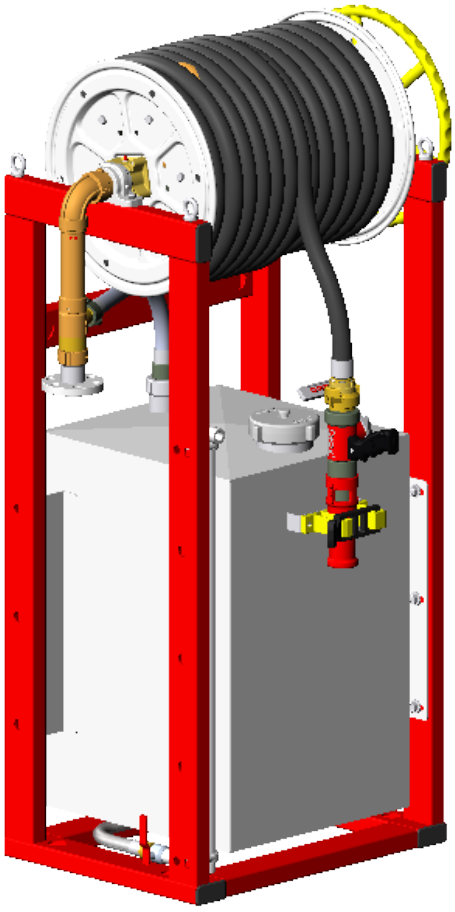
• Flow rate/pressure curve nozzle







• Preamble

You must read this documentation before operating the foam station. Non-compliance with the recommendations in this manual could make it's use dangerous.
The foam station will function at a maximum flow rate of 200 lpm at 7 bar at the inlet of the station

Installation

The foam station must be fixed to the ground or to a wall strong enough to withstand the loads involved in its use.

Use fittings suitable for the type of support

Install the foam station considering the requirements of the inlet flange of the eductor (Fig. 1 and 2). A maintenance and operating area of approx. 70 cm must be maintained on the sides and front of the foam station.

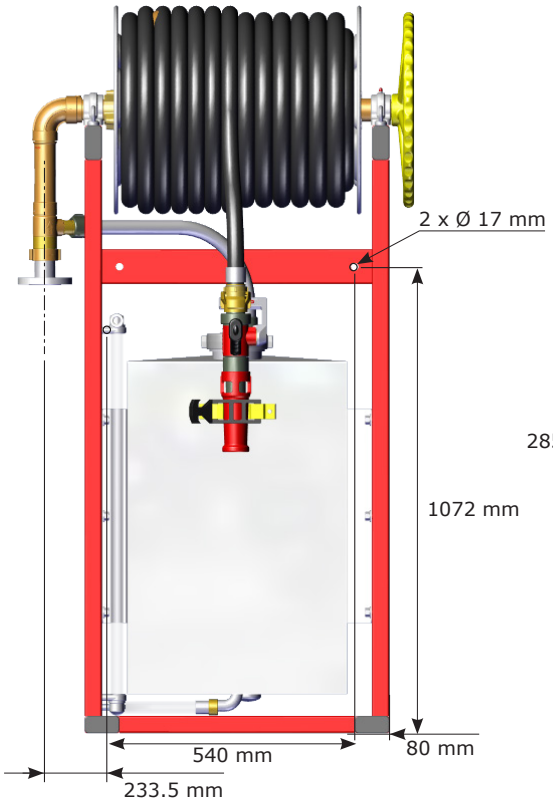


Fig. 1

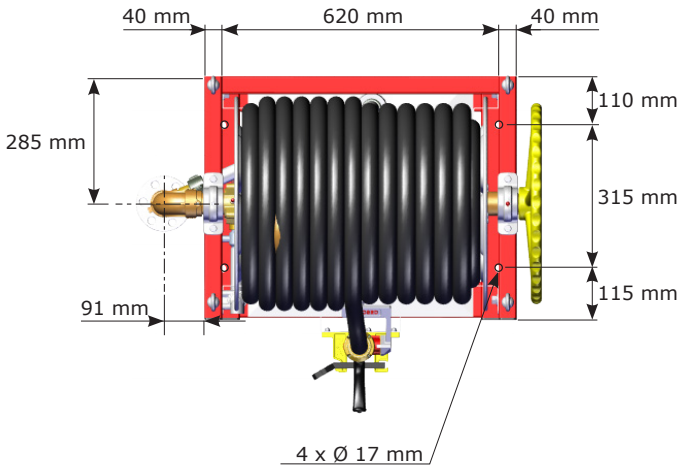


Fig. 2

The foam station must be fixed according to the rules of the art to avoid the risks of accident during its use.

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• Connecting

It is recommended to equip the foam station with a shutoff valve to facilitate its use.and maintenance

- 1 - Place the gasket on the bottom flange.
- 2 - Align the upper flange (already fitted on the foam station) on its location carefully to the bottom flange. The gasket must stay in place, centered and flat. (Fig. 3)
- 3 - Hand tighten the nuts and bolts so that the two flanges are completely in contact with each other. We advise to use class 6 hardware.
- 4 - Tighten in the order indicated in the diagram by applying initially a torque of 50 m.N., then repeat the tightening process with a torque of 120 m.N. (Fig. 4)

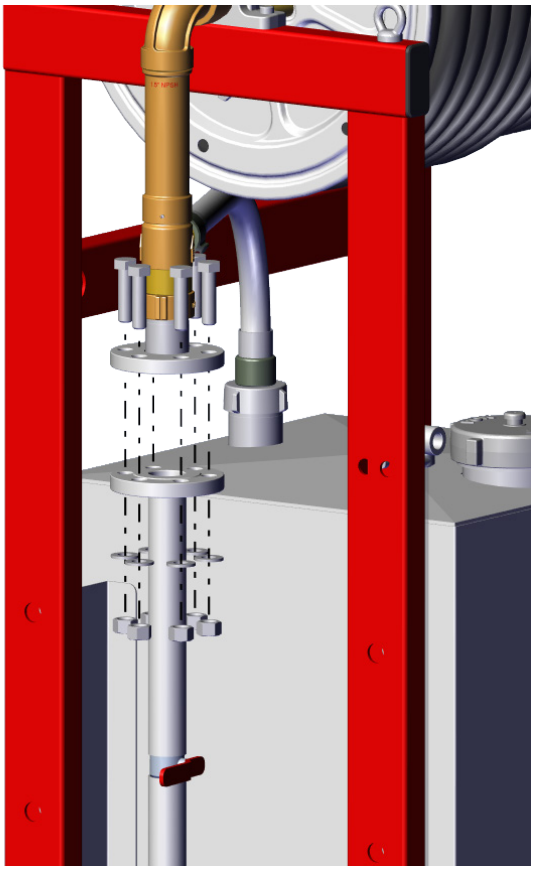

Fig. 3

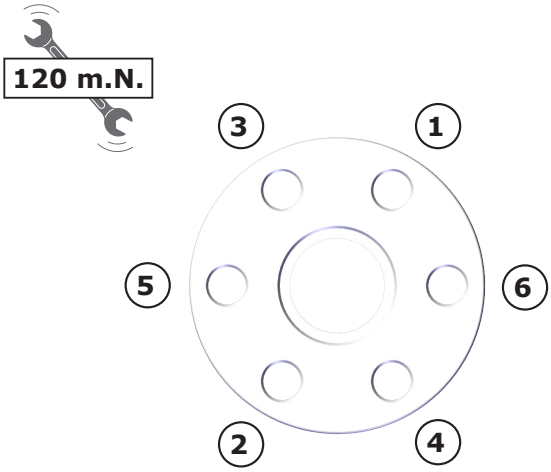

Fig. 4

• Before putting under pressure

- 1 - Check that there are no missing or damaged pieces.
- 2 - Check that the hand nozzle is correctly connected to a water/foam supply.
- 3 - Make sure that there are no leaks during installation.
- 4 - Make sure that the shutoff handle operates smoothly.

Note: To obtain optimal performance, respect the following limits:
- Maximum flow rate: 200 LPM
- Inlet Pressure: 7 bar

Do not target someone with the nozzle

• Use

- 1 - Pull the nozzle out of its holder and deploy it (Mark A).
- 2 - Before putting the station under pressure, open the nozzle shutoff valve.
- 3 - Pressurise the station by opening the valve (Mark B). When the water flows out of the nozzle, close the nozzle shutoff valve.
- 4 - During use, the feed pump (Mark C) must provide sufficient pressure at the inlet of the eductor (Mark D), to ensure the suction of foamer and to have a pressure of 7 bar at the inlet of the foam hand nozzle.
- 5 - Immerse the suction tube (Mark E) in an emulsifier canister (Mark F) and open the suction valve (Mark G) to obtain foam at the outlet of the hand nozzle.

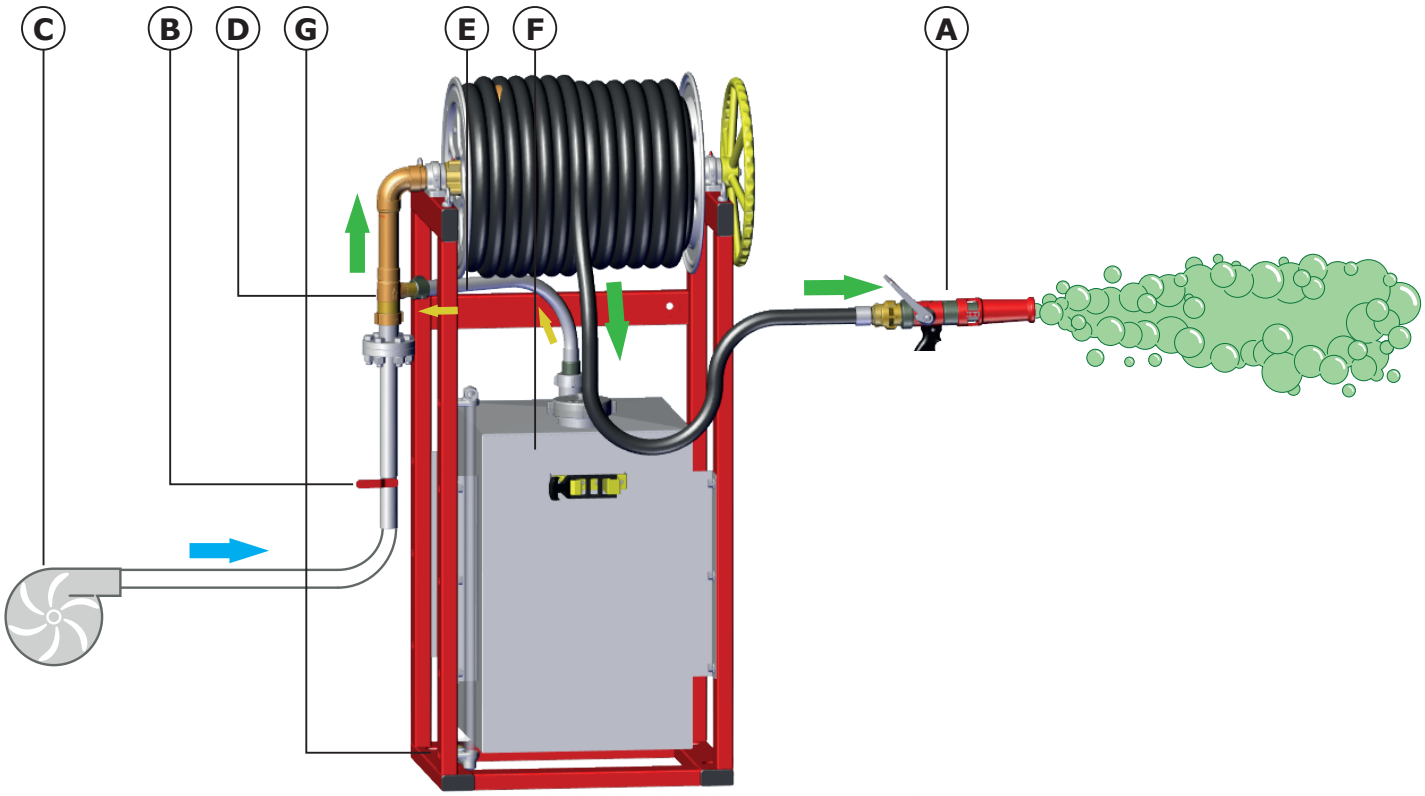

Fig. 4

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• Level indicator isolation shutoff

The level indicator is equipped with a ball to know the level of foam agent in the tank during the operation. A vent located at the top of the tube allows it to be vented and ensures the proper operation of the foam station.

The vent must not be obstructed.

In case of maintenance, the level indicator can be isolated from the rest of the foam station with the 1/4 turn shutoff (Fig. 5).

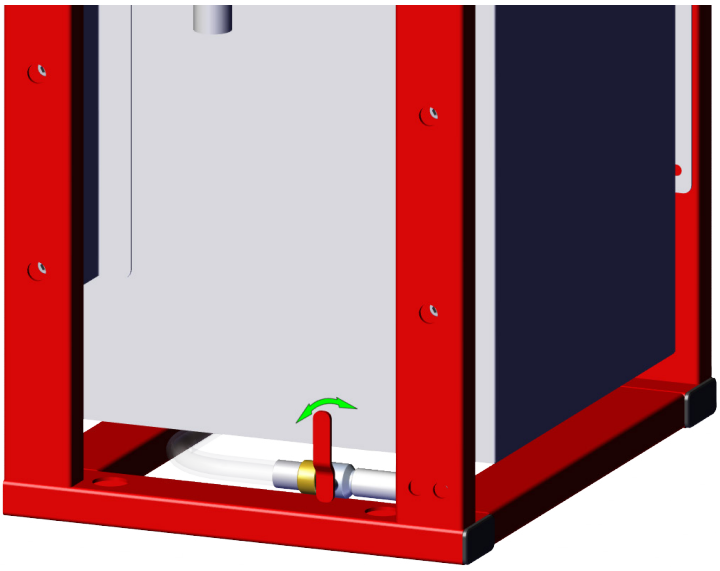


Fig. 5

• Maintenance of the foam station

In order to guarantee optimum functioning, it is important to:
- 1 - Clean the foam station with clear water after each use.
- 2 - In the case of repeated use of salt water, or dirty water, use the foam station with clear water to drain away any particles and/or corrosive residue that could damage the internal components.
- 3 - Do not use corrosive products, that may damage the gaskets and lead to leaks.
- 4 - Check that moving parts are properly working, that no part is jammed nor blocked.
- 5 -We recommend regular visual inspections to detect potential leaks.

Do not use high pressure jet to clean the foam station.

If the foam station is not working properly, ensure that there is no foreign object preventing it from functioning properly. In this case, please contact us to obtain the procedures of disassembly or return the product for a repair in our factory.

• Greasing the foam station

In order to preserve the equipment, we advise you to regularly grease the bearings on the coil shaft using grease type EP 02.
Connect a grease gun to the grease nipple of the bearing to lubricate it (Fig. 6 and 7).
It is important to lubricate every 6 months.

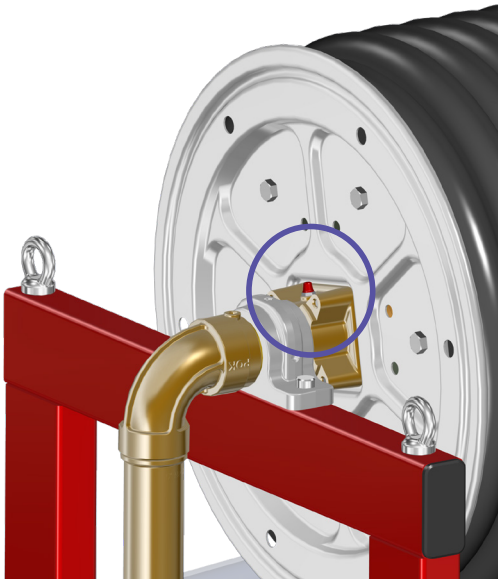


Fig. 6

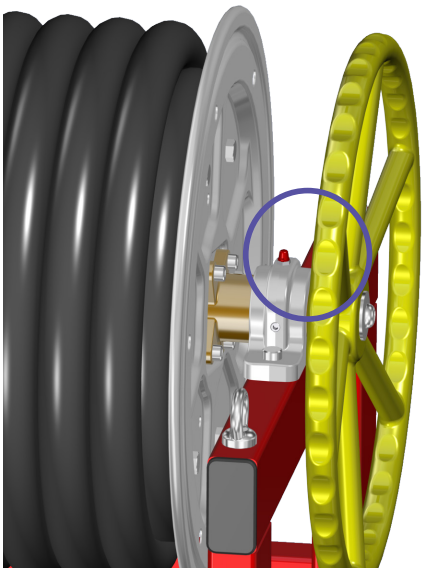


Fig. 7

• Restarting procedure

It is mandatory to check the following before putting the material back in use:
- 1 - Check that no part is missing or damaged.
- 2 - Connect the material to water supply.
- 3 - Test the hand nozzle while gradually increasing the pressure until reaching its nominal pressure. Check for potential leaks.
- 4 - Then check all features of the foam station with a pressure of 7 bar at the inlet. Be sure that moving parts are moving without pressure point or jamming. Operation should last 10 minutes.

If no dysfunction is found the foam station can be put back in use.

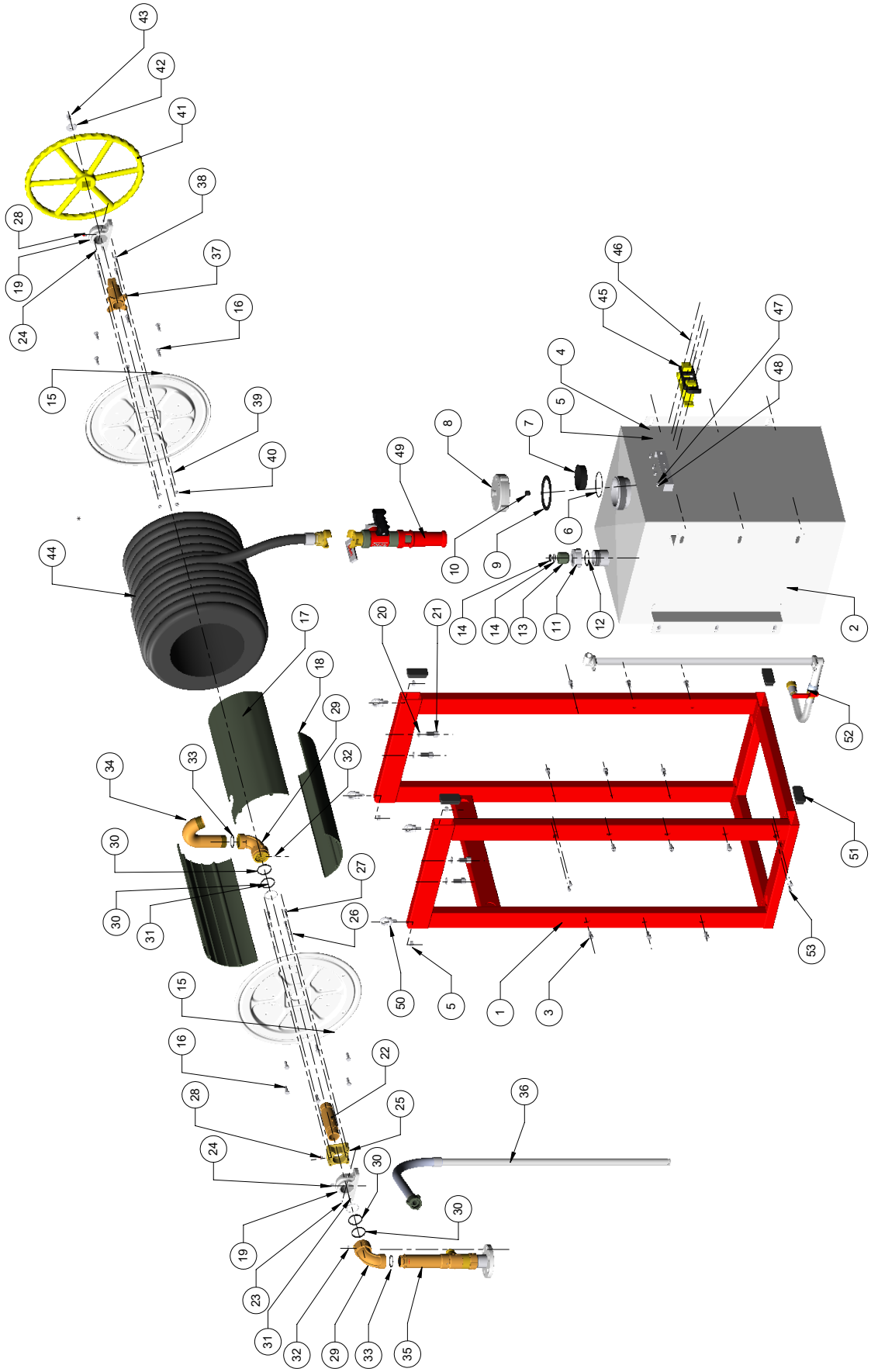
During the test process, it is mandatory to take special precautions. Only the staff concerned by the process of putting the foam station back in service can be around. If the equipment was not properly reassembled, parts can be ejected and cause important damages.

• Spare Parts

According to the conditions of use and/or storage, some parts may deteriorate more or less quickly than others.
Please contact our export service department to be informed of the prices and conditions to return the equipment to the POK SAS workshop or to obtain spare parts.
Use the exploded views and parts lists to identify the precisely needed parts.

Note: Identification number of the foam station can be asked to check if the warranty is still valid.

• Foam station + eductor



Bill of materials

Parts list - Foam station + eductor

Mark	Qty	Description	Ref.
1	1	FRAME	45331
2	1	RECTANGULAR TANK 200 L	45334
3	12	SCREW TCHC M12X20 STAINLESS STEEL A2 ISO 4762	-
4	12	PLAIN WASHER M12 STAINLESS STEEL A2 NFE 25514	-
5	16	NUT H M12	-
6	1	GASKET Ø91,67 x Ø3,53	26683
7	1	ARAG FILTER	12301
8	1	4" NST-NH FEMALE THREAD CAP WITH FLUSH	25991
9	1	FLAT GASKET BOTTOM THREAD 4" NST	09764
10	1	FLUSH	15609
11	1	2" BSP FEMALE THREAD CAP	30282
12	1	FLAT GASKET FOR BOTTOM THREAD 2" BSP	06165
13	1	SLEEVE FOR SUCTION ROD	30283
14	2	O'RING R19	08219
15	2	PLATES	28541
16	12	TBHC SCREW M10X30 STAINLESS STEEL A2 ISO 4017	-
17	1	MACHINED COIL SPACER	30327
18	2	COIL SPACER	30308
19	2	BEARING	21809
20	4	GROWER WASHER W M16 STAINLESS STEEL A2 DIN 127 B	-
21	4	SCREW TCHC M16X30 STAINLESS STEEL A2 ISO 4762	-
22	1	SUPPLY AXLE	30311
23	2	STHC NEEDLE SCREW M8X12 STAINLESS STEEL A2 ISO 4027	-
24	3	STHC FLAT SCREW M8X12 STAINLESS STEEL A2 ISO 4026	-
25	1	DRIVE DEVICE	28525.M
26	4	GROWER WASHER W M8 STAINLESS STEEL A2 DIN 127 B	-
27	4	SCREW TCHC M8X35 STAINLESS STEEL A2 ISO 4762	-
28	2	GREASER M8	16994
29	2	SWIVELLING ELBOW DN40	27532
30	4	O'RING R30	08230
31	70	BALL Ø4 STAINLESS STEEL	16395
32	2	STHC FLAT SCREW M8X6 STAINLESS STEEL A2 ISO 4026	-
33	2	FLAT GASKET FOR BOTTOM THREAD 1.5" BSP	06164
34	1	GOOSE NECK	28028
35	1	EDUCTOR 200 LPM @ 7 BAR - DN40 FLANGE INLET GB569-1965	45200
36	1	PICK-UP HOSE	45343
37	1	SWIVELLING AXLE	21811
38	4	SCREW TCHC M8X25 STAINLESS STEEL A2 ISO 4762	-
39	4	WASHER M8	-
40	4	NUT H M8 STAINLESS STEEL A2 ISO 4032	-
41	1	HANDWHEEL	22129
42	1	FLAT WASHER SERIES LL EXTRA 12 NFE 25513	-
43	1	TBHC SCREW M12X20 STAINLESS STEEL A2 ISO 7380	-
44	1	PIPE DN33-30M (EDF TYPE)	37967
45	1	FIXED NOZZLE Ø60	15190
46	4	SCREW TCHC M6X16 STAINLESS STEEL A2 ISO 4762	-
47	4	PLAIN WASHER M6 STAINLESS STEEL A2 NFE 25514	-
48	4	NUT H M6 STAINLESS STEEL A2 ISO 4032	-
49	1	U-C FOAM HAND NOZZLE 200 LPM	30319
50	4	SAFETY RING	11059
51	4	KAPSTO CAP	16716
52	1	VISUALIZER FOR 200 L TANKS WITH VALVE EXTENSION	45341
53	4	SCREW CHC M8-16	-

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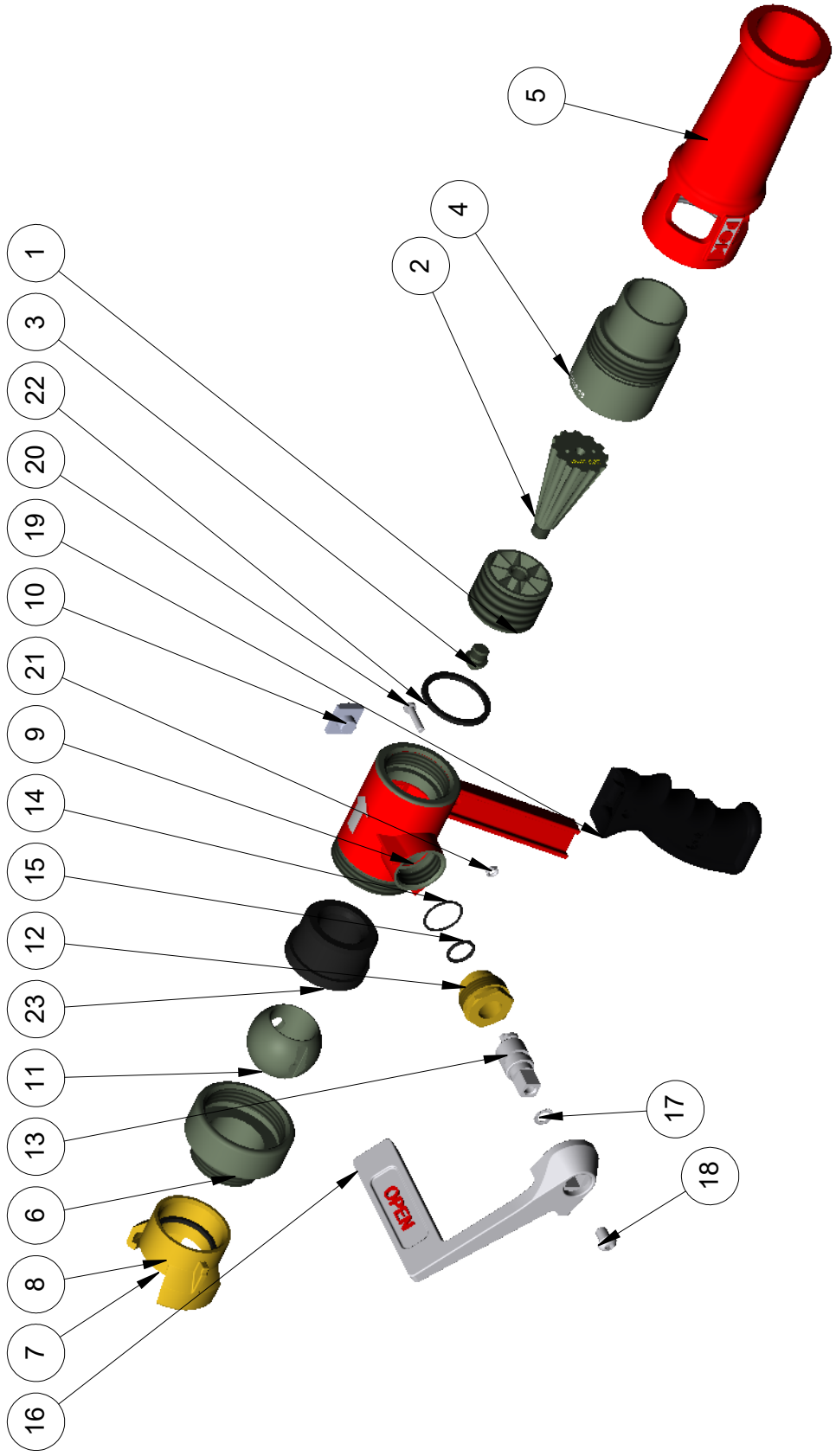
• Foam hand nozzle



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Mark	Qty	Description	Code
1	1	CROSS PIECE	23565
2	1	200 LPM CALIBRATED RING	30429
3	1	OGIVE PIECE	23567
4	1	ADAPTER	24204
5	1	FOAM BRANCHPIPE	42786
6	1	ADAPTER RING 2” BSP FEMALE THREAD / 1.5” BSP MALE THREAD	09277
7	1	GUILLEMIN SYMMETRICAL COUPLING DN 40 WITHOUT LOCK - 1.5" BSP FEMALE THREAD	02383
8	1	FLAT GASKET FOR BOTTOM THREAD 1.5” BSP	06164
9	1	TAP BODY	13368
10	1	FEET	19816
11	1	ROTATING BALL VALVE Ø50	11672
12	1	CABLE GLAND COUPLING	21004
13	1	TAP AXLE	24335
14	1	O’RING R17	08217
15	1	O’RING R12	08212
16	1	HANDLE	13419
17	1	WASHER WITH EXTERNAL TEETH CHEV. DEC M8. NFE 27624	-
18	1	TBHC SCREW M8X12 STAINLESS STEEL A2 ISO 7380	-
19	1	BLACK REVOLVER HANDLE NBR 75SH	24161
20	1	METAL SCREW TCF M5X20 STAINLESS STEEL A2 ISO 1207	-
21	1	BOTTOM NUT M5 STAINLESS STEEL A2 ISO 4035	-
22	1	FLAT GASKET FOR BOTTOM THREAD DN 1.5”	06164
23	1	SEALING GASKET	11388

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