

MSGold

Best hygiene products
in livestock farming

HYBAG® FOAM GUN INSTRUCTIONS



DESCRIPTION

The HyBag® and the HyBag® Foam gun have been specially developed to make the cleaning and disinfection process of animal housing for professional livestock companies easy and safe.

The HyBag® Foam gun is made of stainless steel and is easy to clean. The HyBag® Foam gun is intended to be connected to a high-pressure cleaner. The maximum permitted pressure is 250 bar. Use clean water with a maximum temperature of 30°C.

Weight: 0,7 kg

Dimensions: 25x10x10 cm

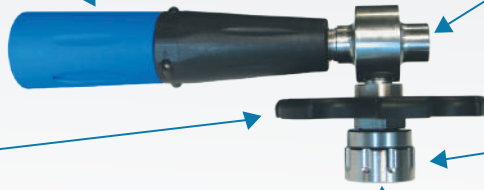
GENERAL SAFETY INSTRUCTIONS:

- Only use the HyBag® + HyBag® Foam gun as prescribed in these user instructions.
- Keep these user instructions for later reference.
- Before use, read the safety data sheets of the cleaning and disinfection products used with this HyBag® Foam gun.
- Wear protective clothing and use the proper personal protective equipment
 - Special spraying coverall
 - Acid-resistant working glove
 - Half Face Mask
 - When using MS MegaDes Novo (disinfectant), also use a half mask and gas filters
- Never direct the foaming at people or animals.
- Keep away from children.
- DO NOT use the HyBag® Foam gun if it is incomplete. ALWAYS be sure that all parts are present.

MAIN COMPONENTS:

Foamhead:

Orange: MS MegaDes Novo
Blue: MS TopFoam Power, MS T&T Cleaner,
MS TopFoam Animal



Water inlet/connection
of high pressure supply.
(The venturi is located
in this inlet)

Black swivel
wheel for
connecting
the HyBag®

Connection for
the Hy-Bag

Suctioning part for product. This part
allows product to be sucked out of the HyBag
(the restrictor is located in this channel)

DAILY USE.

Startup:

1. Use personal protective equipment (PPE): Face mask, acid-resistant working gloves, spray coveralls. In case of Megades also use half mask and gas filters.
2. Grab the appropriate HyBag® Foam gun.
 - An orange HyBag® Foam lance for the disinfectant: MS MegaDes Novo
 - A blue HyBag® Foam lance for MStopFoam Power, MS T&T Cleaner and MS TopFoam Animal.
3. Make sure the HyBag® Foam gun is disconnected from the pressure washer and check that the HyBag® Foam gun is clean. If necessary, clean the HyBag® Foam gun with warm water and soap.
4. Make sure the HyBag® Foam gun is complete. Check the presence of venturi and the restrictor (more about this later in the manual).



NEVER use the HyBag® Foam gun if you are not sure that it is complete. Check the presence of the venturi and the restrictor.

5. Connect the HyBag® Foam gun (without HyBag®) to the water supply/high pressure machine



NB! Never point the foam gun at people during use and always keep the foam head at least 50 cm away from objects. NEVER close the foam head, it MUST have a free flow to the environment.

6. Turn on the high-pressure supply and operate the high-pressure gun so that water comes out of the foam head.
 - Check that water is NOT coming out of the inlet. If this is the case, then check the HyBag® foam gun again for the presence of a venturi and restrictor. Do not use the HyBag® foam gun until this has been resolved!
 - Test whether a nice full jet comes out of the foam head (see image). If this is not the case, clean the foam head (more information later in the manual).



7. Disconnect the Foam gun from the high-pressure supply.
8. Make sure the HyBag® Foam gun is ready for connecting a HyBag®. To do this, turn the black wheel in the direction of the red arrow. Do this by hand. You will feel a resistance when the end is reached and the HyBag® Foam gun in position for shooting HyBag®.



**ALWAYS hold a HyBag® by the upper, hard part (red arrow).
NEVER squeeze the bag.**



9. Unscrew the cap HyBag® off. Check whether the safety seal is closed. If the seal has already been opened, immediately replace the cap and replace it. Do not use this HyBag® because the origin and contents may be questionable and safety is not guaranteed due to the absence of the seal.



10. Slide the HyBag® in the coupling part of the HyBag® Foam gun,



11. Turn the black dial in the opposite direction as described in point 6. Make sure that the HyBag® remains in a vertical position (opening of the HyBag® facing up). Be sure NOT to rotate, shake or tilt the HyBag® and Foam Lance. Turning the black wheel will automatically break the seal and create a proper connection between the foam gun and the HyBag®. Manual tightening is sufficient. Do not use any tools!



12. Connect the HyBag® Foam gun to the high-pressure supply. Make sure the HyBag® remains in a vertical position at all times (with the opening of the HyBag® upwards).

The Foam gun and HyBag® are ready to use. Never aim the foam gun directly at people and always keep the foam gun at least 50 cm away from objects. NEVER close off the foam gun, it MUST have a free flow to the environment.

13. Turn on the water/high pressure supply and operate the high-pressure gun. Water + product will come out of the foam gun. Make sure that the surface to be treated is suitable for the product being applied. Follow the product guidelines of HyBag® for effective operation.
14. After use, always disconnect the HyBag® from the foam gun and put the cap back on the HyBag® to close it. Rinse the HyBag foam gun with water to remove any remaining product from the lance before storage.

Bulletin:

Make the HyBag® is always completely empty. Never disconnect a HyBag® if it is not empty.



Never store a foam gun which is connected to a HyBag®. After disconnecting the empty HyBag® rinse the foam gun well and flush for about 10 seconds. Do this by turning on the high-pressure washer and squeezing the gun.

Storage of both HyBag® and HyBag® foam gun ALWAYS in a frost-free and dry storage location, which is not accessible to children and unauthorized persons.

Dispose the empty HyBag in accordance with the regulations applicable to the country in question.

VENTURI AND RESTRICTOR.

**NEVER use a HyBag® Foam gun if you are not sure that it is complete.
Before use, check the presence of, among other things, venturi and restrictor.**



Image restrictor



Image venturi

The type of restrictor determines how much product is drawn from the HyBag® per minute. The type of venturi determines how much water per minute passes through the foam lance. These two factors together determine the dosing rate.

Suppose the venturi passes 15 liters of water per minute, and 150 ml of product is drawn from the HyBag® per minute via the restrictor, then the dosage is 1%

The larger the number on the restrictor, the more product it sucks out of the HyBag®. The larger the number on the venturi, the more water will pass through the HyBag® foam lance.

The blue HyBag® foam gun (MS TopFoam, MS T&T Cleaner, MS TopFoam Animal) comes standard with a 0.7 restrictor and the 1.7 venturi.

The orange HyBag® foam lance (MS MegaDes) comes standard with 0.6 restrictor and a 1.7 venturi.

The table below can be used as a guideline for configuration. MS T&T Cleaner requires the 1.0 or 1.2 variant required

Max. flow HP Cleaner (model)	Min. Pressure 125 bar	150 bar	175 bar	Reference pressure 200 bar	225 bar	Max. pressure 250 bar	Venturi / nozzle size	Restrictor size MS TopFoam (blue)	Restrictor size MS MegaDes Novo (orange)
<14 L/min	8 L/min	9 L/min	10 L/min	11 L/min	12 L/min	13 L/min	1.3	0.5	0.5
<20 L/min	12 L/min	13 L/min	14 L/min	15 L/min	16 L/min	17 L/min	1.5	0.6	0.5
<25 L/min	15 L/min	16 L/min	17 L/min	18,5 L/min	19 L/min	22 L/min	1.7	0.7	0.6

REPLACE OR CLEAN RESTRICTOR OR VENTURI.

1. Use personal protective equipment: face shield, acid resistant work gloves and spray overalls. In case of MS MegaDes also use half mask and gas filters
2. Make sure the HyBag® Foam gun is disconnected from the water/high pressure supply and there is no HyBag® is connected.
3. Remove any residual liquid from the HyBag® Foam gun by rinsing it thoroughly with warm water and soap.
4. The restrictor is located on the inside of the suction duct. On the inside of the water inlet is the venturi. Both can be deleted with an Allen key. See also instructional video....
5. Clean the restrictor or venturi of dirt or choose another type. There is a number on the restrictor that corresponds to the size of the passage opening.
6. Always make sure a restrictor and venturi are in the HyBag® Foam gun.
7. Follow the instructions for daily use.

INSTALL COUPLING (ONE TIME).

1. The inlet of the HyBag® Foam gun is equipped with G $\frac{1}{4}$ " female thread. Organize suitable (quick) couplings for your company/high-pressure supply. NB theHyBag® Foam gun is suitable for a water pressure of up to 250 bar. Make sure that the coupling can also withstand this water pressure.
2. Place at least 4 wraps of Teflon tape to the coupling
3. Before installing the coupling, check whether a venturi is present!
4. Turn the coupling into the HyBag® Foam gun and tighten firmly to create a watertight connection.



In the image a KEW coupling.
This can be tightened using an Allen key.

CLEANING FOAM HEAD.



Cleaning the membrane step-by-step.
See video.

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