



# SyriSET®™ = Syringe + Filter + Needle

COMPET MEDICAL AG / [www.competmedical.com](http://www.competmedical.com)

## 1. General Information

Compet Medical AG's philosophy is: drug injection only with a filter.

When it comes to drug use, hygienic conditions are one of the most important factors. To reduce the risk of transmission of infectious diseases, COMPET MEDICAL AG has developed the SyriSET®™. This line of syringes consist of a syringe, a filter, and a needle and are available in various combinations.

SyriFILT®™ is used for the treatment / filtration of drug solutions in order to keep undissolved material, especially coarser admixtures, as far as possible from the injection solution! Simple, hygienic and safer application is guaranteed.

### SyriSET®™

- A SyriFILT®™ is placed on a 3-parts disposable syringe (1 ml, 2 ml, or 5 ml) and a needle is attached. The three products are packaged together in blister packs.
- The kit is sterilized using the EO (ethylene oxide) method and sold under the trademark SyriSET®™.
- The content of the SyriSET®™ contributes to the safety of intravenous drug use by combining three sterile disposable products.
- Greater safety through a filter already attached to the syringe or a filter disc integrated into the hypodermic needle (SyriSET®™ PIC).
- Safer for the user.
- Easier handling - with a few simple steps, a safer injection is possible.
- SyriSET®™ is a medical device designed specifically for intravenous drug use with CE Marking.
- More environmentally friendly and less packaging.

## 2. SyriSET®™- Products

### 2.1.1 Disposable Syringes, Luer Slip

#### Disposable syringe:

- 3 pieces, production in accordance with ISO 7886-1.
- Latex and PVC-free.
- The highly transparent cylinder facilitates liquid monitoring.
- Individually packed in sterile blister packs.
- The double contact seal guarantees smooth sliding.
- The safety locking of the plunger prevents mishandling when mounting.



Luer slip

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### 2. SyriSET®™- Products

#### 2.1.2 Disposable Syringes, Luer Slip LDS

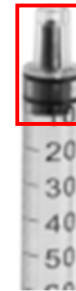
##### SyriPRICK®™SOLO (LDS) Luer slip with LDS-plunger

A Low Dead Space (LDS) syringe has a smaller "dead space". With LDS syringes, the plunger is extended and the plunger tip extends into the syringe neck. As a result, more fluid flows out of the syringe and the blood residue is lower compared to a syringe without LDS. On average, an LDS syringe has less than 2 ml of blood after consumption.

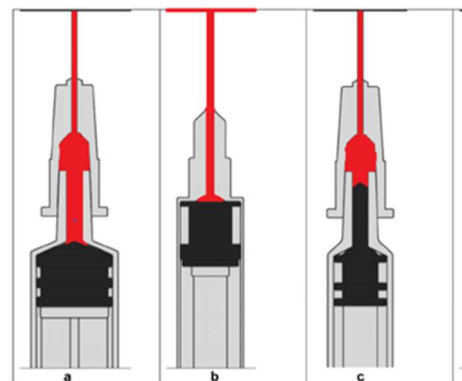
High Dead Space (HDS) are syringes with a larger "dead space" and may contain up to 84 ml of blood.

According to WHO studies, used LDS syringes can significantly reduce the risk of communicable diseases such as HIV, Hepatitis B and Hepatitis C. At present, the LDS plunger is only offered for 1 ml syringes.

This means that drug users who use the HDS syringe of an HIV- or HCV-positive drug user have a significantly higher risk of transmitting HIV or hepatitis.



Luer slip  
with LDS plunger



Cross-sectional view to illustrate the dead space LDS  
a) Standard syringe with attached needle (HDS)  
b) Syringe with a fixed-in needle (insulin type syringe)  
c) Syringe with a LDS piston and attached needle e.g. SyriPRICK®™ SOLO

### 2. SyriSET®™- Products

#### 2.1.3 Disposable Syringes, Luer Lock

##### SyriPRICK®™SOLO Luer lock

The Luer lock system is a standardized connection system with a plug connection between the hypodermic needle or filter and syringe parts.

Luer lock is a closure in which the male connector has a rotating thread. The connection between the hypodermic needle and syringe is attached by a rotation of the Luer lock closure. The Luer lock closure makes it easier to attach hypodermic needles to the syringe and it is easy to avoid the needle slipping out.



Luer lock

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## 2. SyriSET®™- Products

### 2.2. Needles



#### Hypodermic needle

- Thin-shaft hypodermic needles made of stainless chromium-nickel steel.
- Special bevel cut for minimal pain when inserting the needle.
- With a very smooth surface and silicone coating.
- Color coding according to ISO 6009
- Needles are individually packed, sterile, in blister packs.
- Production in accordance with ISO 7864.

## 2. SyriSET®™-Products

### 2.3. Filters

#### The SyriFILT®™ filters:

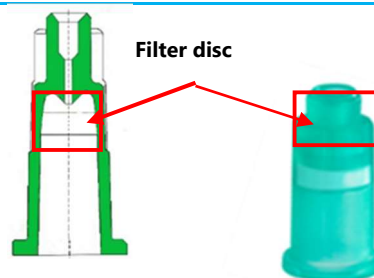
- Street drugs are regularly contaminated with additives (dilutants). A disposable sterile filter greatly eliminates these contaminants.
- The use of a filter can prevent further damage to health such as abscesses, phlebitis, embolism, edema, pulmonary complications, etc.

The filter technology of COMPET MEDICAL AG guarantees a safety that is not achieved by cigarette filters, handkerchiefs, wool beads, cotton swabs, etc. due to poor hygiene and lack of filter properties. Non-industrial filters do not provide a reproducible filter result like our SyriFILT®™ filters. Pulp filters can fray and enter the bloodstream.

## 3. SyriSET®™ STANDARD (Filter Disc)

#### SyriFILT®™ STANDARD

- The SyriFILT®™ STANDARD is an aspiration-filter with a filter disc in the Luer hub.
- It greatly eliminates impurities (dilutants) from a drug injection solution.



#### SyriFILT®™ STANDARD

For Luer slip & Luer lock  
Norm Luer hub with filter disc

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## SyriSET<sup>®</sup>™ STANDARD contains:

- 1x 1 ml (LDS) or 2 ml disposable syringe (3-parts).
- 1 x SyriFILT<sup>®</sup>™ STANDARD.
- Filter placed on the syringe.
- 1x Included Needle 25G or 26G.



### 2 ml SyriSET<sup>®</sup>™ STANDARD

2 ml SyriPRICK<sup>®</sup>™ SOLO, 3-parts  
SyriFILT<sup>®</sup>™ STANDARD attached  
needle enclosed

## Types of SyriSET<sup>®</sup>™ STANDARD

- 1 ml SyriSET<sup>®</sup>™ STANDARD, BROWN
- 1 ml SyriSET<sup>®</sup>™ STANDARD, ORANGE
- 2 ml SyriSET<sup>®</sup>™ STANDARD, BROWN
- 2 ml SyriSET<sup>®</sup>™ STANDARD, ORANGE

## Benefits of the SyriSET<sup>®</sup>™ STANDARD:

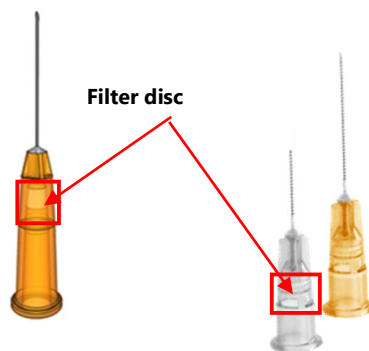
- An essential advantage of the well-known SyriSET<sup>®</sup>™ STANDARD is:
  1. Draw up the solution
  2. Remove the filter
  3. Attach the needle Inject the solution
  4. Dispose of safely
- This makes both the injection and disposal safer.



### 1 ml SyriSET<sup>®</sup>™ STANDARD

1ml SyriPRICK<sup>®</sup>™ SOLO, LDS-plunger, 3 parts  
SyriFILT<sup>®</sup>™ STANDARD attached  
needle enclosed

## 4. SyriSET<sup>®</sup>™ PIC (Filter Disc)



**SyriFILT<sup>®</sup>™ PIC (Filter disc)**  
For Luer slip & Luer lock

### SyriFILT<sup>®</sup>™ PIC (Filter disc)

- The SyriFILT<sup>®</sup>™ PIC is a standard hypodermic needle with integrated filter disc, making it a special hypodermic needle.
- The filter material complies with SyriFILT<sup>®</sup>™ STANDARD.
- The SyriFILT<sup>®</sup>™ PIC eliminates maximum impurities in a solution before injection.
- The use of syringes with Luer lock connection ensures a secure hold of the SyriFILT<sup>®</sup>™ PIC.

### The SyriSET<sup>®</sup>™ PIC contains:

- 1x 1 ml (LDS) or 2 ml or 5 ml disposable syringe (3 pieces) SyriPRICK<sup>®</sup>™.
- 1x SyriFILT<sup>®</sup>™ PIC enclosed.

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### SyriSET®™ PIC

1x 2 ml SyriPRICK®™ SOLO, Luer lock,  
1x SyriFILT®™ PIC included

### Special benefits of the SyriSET®™ PIC:

- Easier handling: The filter and hypodermic needle can be attached to the syringe with just one hand. Procedure:
  1. Draw up the solution
  2. Attach the needle
  3. Inject the solution
  4. Dispose of the syringes safely
- This eliminates the aspiration step through the filter. The SyriFILT®™ PIC is simpler and more user-friendly. The filter clogs after a single use and cannot be reused.
- This type of filter produces less waste (no additional packaging for the filter).

## 5. SyriSET®™ PIC SAFE (Filter Disc)

### SyriFILT®™ PIC SAFE (Filter disc)

- The SyriFILT®™ PIC SAFE is a standard hypodermic needle with integrated filter disc, making it a special hypodermic needle.
- The filter material complies with SyriFILT®™ STANDARD.
- The SyriFILT®™ PIC SAFE eliminates maximum impurities in a solution before injection.
- The use of syringes with Luer lock connection ensures a secure hold of the SyriFILT®™ PIC SAFE.



**SyriFILT®™ PIC SAFE (filter disc)**  
Luer slip & Luer lock

### The SyriSET®™ PIC SAFE contains:

- 1x 1 ml (LDS) or 2 ml or 5 ml disposable syringe (3 pieces) SyriPRICK®™.
- 1x SyriFILT®™ PIC SAFE enclosed.



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- The filter clogs after a single use and cannot be reused.
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**SyriSET®™ PIC SAFE filter disc**  
SyriFILT®™ PIC SAFE , after use

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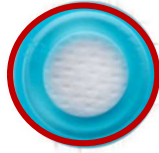
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## 6. SyriSET®™ SHORT (Filter Membrane)



### SyriFILT™ SHORT

Filter membrane, Ø 10 mm,  
(Luer slip & Luer lock)

### SyriFILT®™ SHORT

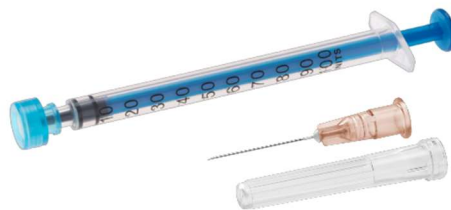
- The filter membrane has a diameter of 10 mm. It consists of a non-woven polypropylene. The filter membrane is fixed into the filter housing.

### The SyriSET®™ SHORT contains:

- 1x SyriPRICK®™ SOLO 1ml (LDS) or 2 ml syringe.
- 1x SyriFILT®™ SHORT attached.
- 1x needle attached.

### Special benefits of the SyriSET®™ SHORT:

- This filter is extra short. The SyriFILT®™ SHORT has been specially developed for prevention kits the size of a cigarette pack (Marlboro 100) LxWxH: 100 x 60 x 22 mm) and for vending machines. In this technology/solution, the syringe comes with attached filter
  - SyriFILT®™ SHORT 1.2 mm in length.
  - SyriFILT®™ STANDARD 7 mm in length.
- An important advantage of the SyriSET®™ SHORT is its easy handling:
  1. Draw up the solution
  2. Remove the filter
  3. Attach the needle
  4. Inject the solution
  5. Dispose of safely
- This makes both the injection and disposal safer.



### SyriSET®™ SHORT

1x 1 ml SyriPRICK®™ SOLO, LDS & 3-parts  
1x SyriFILT®™ PIC attached  
needle included



### SyriSET®™ SHORT

2 ml SyriPRICK®™ SOLO 3 parts  
SyriFILT®™ PIC attached  
needle included

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## 6. SyriSET®™ TOP

### SyriFILT®™ TOP

- is a high performance filter, that means; the moistened surface is larger.
- The filter membrane is at 13 mm Ø or 25 mm Ø, pore size 0.22 µm, material PVDF/L or PTFE/L.



**SyriFILT®™ TOP**  
Filter membrane 13 mm Ø or 25 mm Ø  
Luer slip & Luer lock

### Types



SyriFILT®™ TOP  
Filter membran (PVDF/L)  
Pore size: 0.22 µm, 25 mm Ø



SyriFILT®™ TOP  
Filter membran (PVDF/L)  
Pore size: 0.22 µm, 13 mm Ø



SyriFILT®™ TOP  
Outer ring  
Filter membran (PTFE/L)  
Pore size: 0.22 µm, 25 mm Ø



SyriFILT®™ TOP  
Outer ring  
Filter membran (PTFE/L)  
Pore size: 0.22 µm, 13 mm Ø



SyriFILT®™ TOP  
Filter membran (PTFE/L)  
Pore size: 0.22 µm, 25 mm Ø



SyriFILT®™ TOP  
Filter membran (PTFE/L)  
Pore size: 0.22 µm, 13 mm Ø



**SyriSET®™ TOP**  
5 ml SyriPRICK®™ SOLO, 3 parts  
SyriFILT®™ TOP attached  
Needle included

### A SyriSET®™ TOP contains:

- 1x 1 ml (LDS) or 2 ml disposable syringe (3 pieces) SyriPRICK®™.
- 1x SyriFILT®™ TOP attached.
- 1x Needle enclosed.

### A major advantage of this filter is :

The elimination of almost all micro-organisms (bacteria or fungi) from the solution for injection. The SyriSET®™ TOP cannot filter viruses.

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