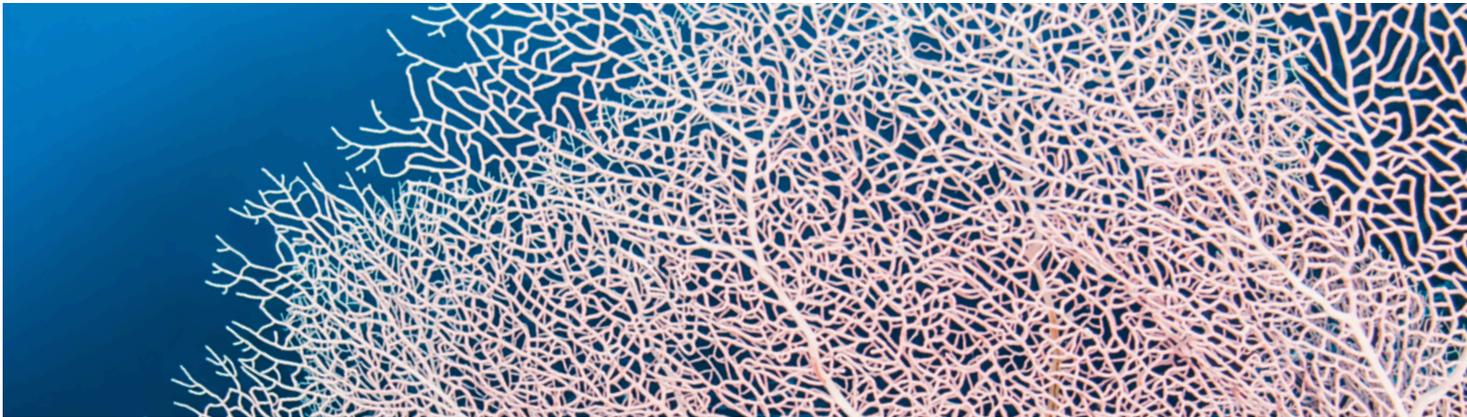




# CODAN I.V.STAR<sup>®</sup> Filter

Infusion filters  
and filter systems



# CODAN I.V.STAR® Filter



**Safe and reliable:**

## **I.V.STAR® Infusion filters from CODAN**

With the infusion filters and complete filter systems from the I.V.STAR® series, CODAN sets standards in infusion therapy. As always, patient safety, easy handling, flexibility in use and cost awareness are in the foreground at CODAN - especially in such a sensitive area as infusion therapy.

There are no compromises in terms of quality and precision! Our I.V.STAR® filters and filter systems guarantee consistent quality standards at the highest level - for your benefit and the well-being of the patients.

## **CODAN I.V.STAR®**

### **The safe standard in many application areas**

Like all CODAN filter types, the model I.V.STAR® (colour code: transparent white) is available in three different sizes, the designation of which states the available filter surface (1.6, 4.5 or 10 cm<sup>2</sup>). The selection of the filter is based on the infusion volumes to be administered during therapy.

The pore size of the CODAN I.V.STAR® is 0.2 µm for all filter surfaces, making this filter the standard model for the most common applications in infusion therapy. The specific filter membrane reliably and safely protects against particles (e.g. rubber abrasion, glass splinters or flocculation) as well as against microbacterial contamination through skin or air contact. Sorption phenomena are avoided to a great extent by the selection of the materials used. An additional benefit for patient safety is the separation of air that has unintentionally entered the infusion system.



## CODAN I.V.STAR® F



### Lipid filtration without risk

The filters of the I.V.STAR® F series have been specifically developed for the administration of lipids (colour code: transparent blue). They are primarily used for the retention of fungi, spores, particles and air. The pore size is 1.2 µm; the materials used have been selected as to minimise sorption phenomena to a great extent - same as for standard filters with a 0.2 µm pore width.

A further advantage of the I.V.STAR® F filters: despite the relatively low pore size, high flow rates are guaranteed at all times even for the lipid filters. The I.V.STAR® F filters are also available with a filter surface of 1.6, 4.5 and 10 cm<sup>2</sup>, depending on their application and the infusion volume.

## CODAN I.V.STAR®PLUS

### The specific filter from CODAN

In some areas of application, especially for permanent vascular access, endotoxin retention filters are increasingly used as part of the infusion concept. This particular filter type under the designation of I.V.STAR®PLUS (colour code: transparent green) is also available from CODAN - for added safety and reliability!

As in the standard filters, the pore size is 0.2 µm. Endotoxin retention is achieved by the positive charging of the filter membrane. Thus, the toxic macromolecules originating from gram-negative bacteria can also be reliably retained. I.V.STAR®PLUS filters from CODAN are available in the sizes 1.6 and 10 cm<sup>2</sup>.



# Typically CODAN

## Perfect down to the smallest detail

As the proverb says, the devil is in the detail. In everyday hospital life, this can have serious consequences - which is why CODAN places particular emphasis on perfection and well thought-out solutions where nothing is left to chance. This principle naturally also applies to the CODAN I.V.STAR® filters. All filters can be operated with all common infusion pumps. They work equally reliable with gravity and parallel infusions, in which both processes are combined.

The use of original CODAN accessories (e.g. Luer-Lock components with CODAN Check Valve) ensures maximum safety for patients and guarantees quick work for medical personnel - a noticeable relief for both sides!

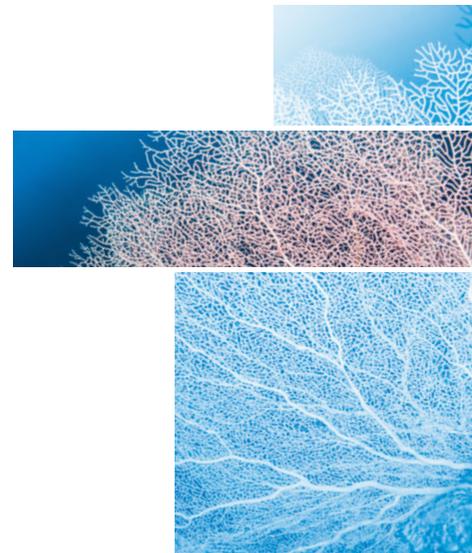


# Anything is possible!

## CODAN I.V.STAR® Filter systems for specific requirements

Often, certain medications such as cytostatics present special demands to the transmission systems. For such specific applications (e.g. where there is a risk of plasticiser release or of migration problems of effective agents), CODAN offers specific transmission devices generally using inert materials and PVC with the plasticiser TOTM.

The I.V.STAR® filters are available in such configurations. It is, of course, part of the accustomed CODAN service that we work with you on identifying potential difficulties in complex infusion therapies, in order to offer you tailor-made filtration systems.



# CODAN I.V.STAR® Filter systems

## Practical, safe and compact

CODAN offers pre-assembled, ready-to-use infusion filter systems for virtually every case of application. The great advantage: compared to the use of single components, these systems minimise the contamination risk to a considerable extent. Even complex infusion systems (e.g. using 3-way stopcocks, Multiflow banks or couplings of gravity and pump-controlled infusions) can be implemented quickly, simply and particularly cost-effective with the I.V.STAR® systems. Infusion therapy can be implemented with virtually no restrictions. Within the large variety of complete systems offered in our I.V.STAR® filter series, only a few steps are needed in order to assemble the entire infusion system.

## Examples of products

- Infusion filter sets and systems with 0.2 µm filters for small, medium and large volumes
- Infusion filter sets and systems with 1.2 µm lipid filters for small, medium and large volumes
- Infusion filter sets and systems with 0.2 µm filters for endotoxin filters for small and large volumes
- Infusion devices with 0.2 µm filters for the administration of chemotherapeutics
- Customised systems for specific applications



# CODAN Worldwide



CODAN is known internationally as a manufacturer and supplier of medical transfer systems. The CODAN Companies have more than 1500 employees around the world.

The name CODAN is synonymous with reliability, quality and precision based on the know-how and experience gained from more than 60 years of research and development. Company-owned production facilities and sales companies around the world are a guarantee for efficient production, a tight-knit sales network and a first-class service for customers in the healthcare sector.

## CODAN Companies

CODAN Medizinische Geräte GmbH · Deutschland  
CODAN pvb Critical Care GmbH · Deutschland  
CODAN pvb Medical GmbH · Deutschland  
CODAN 11, S.A. · Portugal  
CODAN US Corporation · California · USA  
CODAN Inc. · California · USA  
CODAN NORGE AS · Norge  
CODAN TRIPLUS AB · Sverige  
CODAN Limited · Great Britain  
CODAN FRANCE Sarl · France  
CODAN Medical AG · Schweiz  
CODAN ARGUS AG · Schweiz  
CODAN BV · Nederland  
CODAN s.r.l. · Italia  
CODAN Medical GmbH · Österreich  
CODAN Medical ApS · Danmark  
CODAN DEHA ApS · Danmark  
CODAN MEDITECH s.r.o. · Česká republika

### CODAN Product range

- Infusion sets
- Transfusion sets
- Extension lines and manifold connectors
- Infusion and transfusion accessories
- Infusion filters and filter systems
- Neonatology/Paediatric products
- Withdrawal, preparation and administration systems
- CODAN CYTO®
- Chemoprotect® products
- Single use syringes
- Invasive blood pressure monitoring systems
- Infusion pumps
- Other CODAN Products

Compliance of the established quality management systems with the provisions of EN ISO 13485, the Council Directive 93/42/EEC and/or Regulation (EU) 2017/745 has been certified by the relevant, competent notified bodies:

### TÜV SÜD Product Service GmbH

CODAN Medizinische Geräte GmbH  
23738 Lensahn, Germany

CODAN pvb Critical Care GmbH  
85661 Forstinning, Germany

CODAN US Corporation · Santa Ana, CA 92704, USA

CODAN ARGUS AG · 6340 Baar, Switzerland

### Presafe Denmark A/S

CODAN Medical ApS · 4970 Rødby, Denmark

### Manufacturer

CODAN Medizinische Geräte GmbH  
Stig Husted-Andersen Straße 11 · 23738 Lensahn, Germany  
Tel. +49 (0) 43 63 · 51 11 · Fax +49 (0) 43 63 · 51 12 14  
codan@codan.de · www.codancompanies.com



**The decisive connection**