

# Alfa Laval LKIF Inline Strainer

## Filters and strainers

#### Introduction

The Alfa Laval LKIF Inline Strainer is an inline strainer intended for process lines in hygienic applications. It provides a safe and economic method to remove particles from liquids in process flows. The filter can easily be removed for cleaning.

#### **Application**

The LKIF Inline Strainer is designed to remove particles and other impurities from product flows and to protect pumps and other sensitive equipment across the dairy, food, beverage, brewery, chemical and pharmaceutical industries.

#### **Benefits**

- Hygienic filtration
- Safe and economic method for removal of impurities
- Helps extend product shelf life
- Easy to clean

#### Standard design

The LKIF Inline Strainer consists of a perforated filter element with filter ring and seal rings. Optional clamp rings, clamp seal rings, and clamp liner, or DS and SMS unions are available.

#### Working principle

The Alfa Laval LKIF Inline Strainer is installed in process lines and removes particles and impurities as the product flows through the lines. Particles accumulate inside the filter, which can easily be removed for cleaning. If required, the liquid can flow in the opposite direction.



## **TECHNICAL DATA**

Temperature	
Min. temperature:	-10 °C to 140 °C (EPDM)

Pressure	
Max. product pressure:	1000 kPa (10 bar)
Min. product pressure:	Full vacuum

#### Sizes

25 mm (1"), 38 mm (1 1/2"), 51 mm (2"), 63.5 mm (2 1/2"), 76.1 mm (3"), and 101.6 mm (4"). 1000 kPa (10 bar)

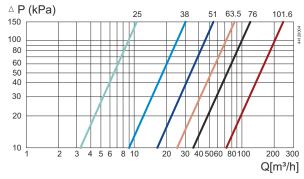
## PHYSICAL DATA

Materials	
All wetted parts:	Acid-resistant steel AISI 316
Other steel parts:	Stainless steel AISI 304
Seals:	EPDM rubber
Other seals:	Nitrile (NBR) and PTFE, if clamps
Finish:	Semi bright

## Ordering

Please state the following when ordering: - Size. - Male type.

# Pressure drop/capacity diagram





## Note!

For the diagram the following applies: Medium: Water (20  $^{\circ}$ C). Measurement: In accordance with VDI 2173.

## Strainer element perforation

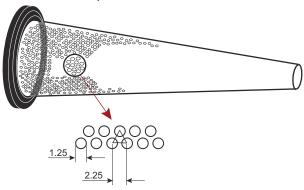


Figure 1. Strainer element.

Perforation: 40.2 %

(mm)

## Dimensions (mm)

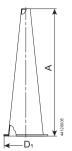


Figure 2. Clamp ends.

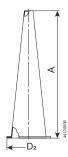


Figure 3. DS and SMS unions.

25.0	38.0	51.0	63.5	76.1	101.6
mm	mm	mm	mm	mm	mm
75.0	114.0	169.0	215.0	225.0	250.0
31.0	40.0	53.0	67.0	80.0	106.5
33.5	52.0	63.0	78.0	91.0	122.0
4400	8400	16200	26100	33300	50600
18.5	20.0	20.0	24.0	24.0	24.0
15.0	20.0	20.0	24.0	24.0	35.0
21.5	21.5	21.5	21.5	21.5	21.5
0.027	0.06	0.1	0.15	0.197	0.299
	mm 75.0 31.0 33.5 4400 18.5 15.0 21.5	mm mm 75.0 114.0 31.0 40.0 33.5 52.0 4400 8400  18.5 20.0 15.0 20.0 21.5 21.5	mm         mm         mm           75.0         114.0         169.0           31.0         40.0         53.0           33.5         52.0         63.0           4400         8400         16200           18.5         20.0         20.0           15.0         20.0         20.0           21.5         21.5         21.5	mm         mm         mm         mm           75.0         114.0         169.0         215.0           31.0         40.0         53.0         67.0           33.5         52.0         63.0         78.0           4400         8400         16200         26100           18.5         20.0         20.0         24.0           15.0         20.0         20.0         24.0           21.5         21.5         21.5         21.5	mm         mm         mm         mm         mm           75.0         114.0         169.0         215.0         225.0           31.0         40.0         53.0         67.0         80.0           33.5         52.0         63.0         78.0         91.0           4400         8400         16200         26100         33300           18.5         20.0         20.0         24.0         24.0           15.0         20.0         20.0         24.0         24.0           21.5         21.5         21.5         21.5         21.5

#### **Parts List**

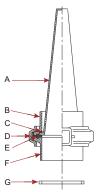


Figure 4. Clamp ends.

- A. Filter with ring.
- B. Clamp-liner welded.
- C. Seal ring.
- D. Clamp ring.
- E. Clamp seal ring.
- F. Clamp-liner welded.
- G. Replacement ring.

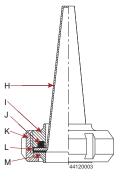


Figure 5. DS and SMS unions.

- H. Filter with ring.
- I. Male part welded.
- J. Seal ring.
- K. Union nut.
- L. Special seal ring.
- M. Liner welded.

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