Alfa Laval LKIF in-line filter

Filters and strainers

Introduction
The Alfa Laval LKIF In-Line Filter is an in-line filter intended for use 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 In-Line Filter 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 In-Line Filter 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 In-Line Filter 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

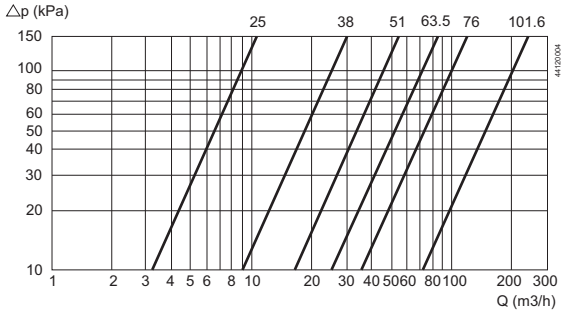
Sizes
25 mm (1"), 38 mm (1 1/2"), 51 mm (2"), 63.5 mm (2 1/2"), 76.1 mm (3"), and 101.6 mm (4"). 1000 kPa (10 bar)

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 (200C). Measurement: In accordance with VDI 2173.

Filter element perforation (mm)
Perforation: 40.2 %

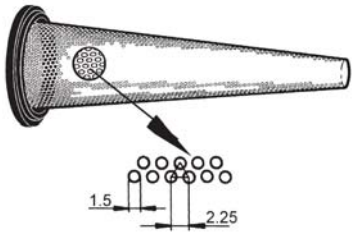
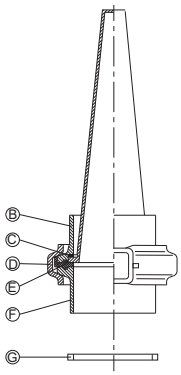


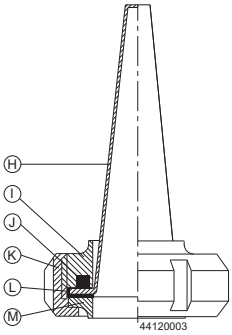
Fig. 4. Filter element.

Dimensions (mm)

Size	25.0	38.0	51.0	63.5	76.1	101.6
	mm	mm	mm	mm	mm	mm
A	75.0	114.0	169.0	215.0	225.0	250.0
D1	31.0	40.0	53.0	67.0	80.0	106.5
D2	33.5	52.0	63.0	78.0	91.0	122.0
» Strainer area apprx. (mm^2)	4400	8400	16200	26100	33300	50600
M/DS male	18.5	20.0	20.0	24.0	24.0	24.0
M/SMS male	15.0	20.0	20.0	24.0	24.0	35.0
M/ISO clamp	21.5	21.5	21.5	21.5	21.5	21.5
Weight (kg)	0.027	0.06	0.1	0.15	0.197	0.299

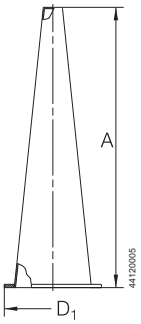


a. Clamp ends

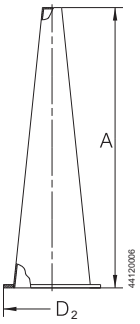


b. DS and SMS unions.

Fig. 3. Parts lists drawings.



a. Clamp ends



b. DS and SMS unions.

Fig. 5. Dimensions.

Parts List

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.

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

How to contact Alfa Laval
Contact details for all countries
are continually updated on our website.
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