

Strainers for Membrane Filtration

LKSF Slot Strainer

Application

LKSF has a wide range of applications within process filtering, especially where strainers of sanitary design are required.

Working principle Type LKSF-BL

The product enters at A. Impurities are stopped by the filter element. When the filter is full of particles, it can be cleaned by removing the clamp and pulling out the filter element. It is also possible to reverse the flow and flush out the impurities (back flush).

Working principle Type LKSF-CL

The product enters the filter at A. Most of the impurities will collect at the bottom and can be emptied via a valve, during operation. Emptying can also be automatic by means of two remote controlled valves at B. The upper valve is open during operation and the lower is closed. The impurities will collect between the two valves. Closing the upper valve and opening the lower one will empty the impurities with a minimum of product loss. The filter can be cleaned as LKSF-BL. The degree of filtering can be altered by changing filter element. Strainer type LKSF-CL must always be installed vertically. The degree of filtering may be changed immediately by changing elements.

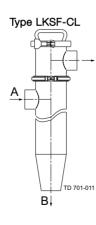


TECHNICAL DATA

= 1 bar

Separate pressure drop/capacity diagrams are available on request.

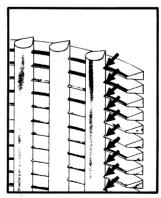
Type LKSF-BL



PHYSICAL DATA

Materials

Product wetted steel parts: ... AISI 316
Other steel parts: ... AISI 304
Seals: ... EPDM rubber
Surface finish: ... Semi bright



The LKSF strainer element.

Welded at every intersection of vertical rod and surface wire.

Standard Design

Both strainer types consist of a housing in three parts, LKSF-BL has housing in two parts (101.6 mm) in which the strainer element is placed. The housing is assembled by means of clamps, (the upper clamp ring has a wing nut for manual operation) to allow for quick dismantling for the cleaning. The strainer element is fitted centrally in the housing and has direct access to the end cover of same where a welded on handle facilitates dismantling when cleaning is required.

Ordering

When ordering please specify strainer element, type of male part and position. (See fig. 3 - A, B, C).

Strainer elements - available slot sizes

Standard	Opt	Option			
74 µm	53 µ m	595 µm			
105 µm	63 µm	841 µ m			
177 µm	88 µ m	1190 µm			
500 µm	125 µ m	1410 µm			
707 µm	149 µ m	1680 µm			
1000 µm	210 µm	2380 µm			
2000 µm	250 µ m	2830 µm			
	297 µ m	3360 µm			
	354 µ m	4000 µm			
	420 µ m				

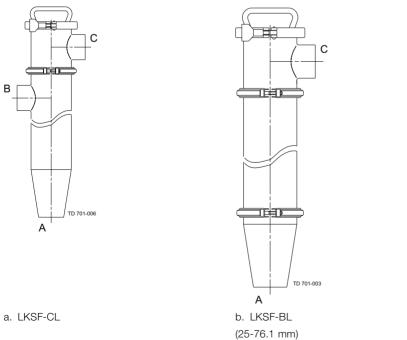
Separate pressure drop/capacity diagrams are available on request.

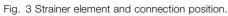
Additional length mm - for male parts (both types)

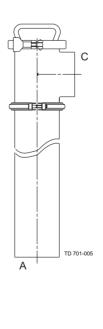
Size	25 mm	38 mm	51 mm	63.5 mm	76.1 mm	101.6 mm
DS	18.5	20.0	20.0	24.0	24.0	24.0
SMS	15.0	20.0	20.0	24.0	24.0	35.0
IDF	21.5	21.5	21.5	21.5	21.5	21.5
BS	22.2	22.2	22.2	22.5	22.2	27.0
Clamp	21.5	21.5	21.5	21.5	21.5	21.5
DIN	22.0	22.0	22.0	25.0	30.0	30.0

Separate pressure drop/capacity diagrams are available on request.

Connection Position





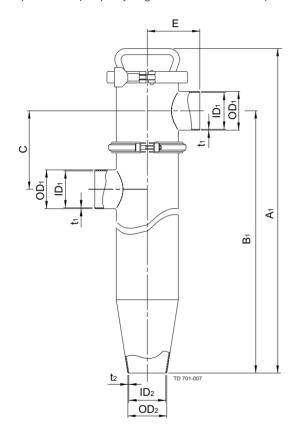


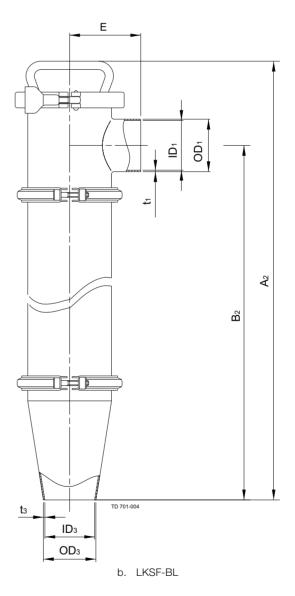
c. LKSF-BL (101.6 mm)

Dimensions mm

Size	25 mm	38 mm	51 mm	63.5 mm	76.1 mm	101.6 mm
A1	727	727	727	727	727	820
A2	852	808	766	727	688	693
B1	632.5	632.5	632.5	632.5	632.5	705
B2	756	712	670	631	592	583
С	130	130	130	130	130	150
OD ₁	25.4	38.1	50.8	63.5	76.2	101.6
ID ₁	22.2	34.9	47.6	60.3	73	97.6
t ₁	1.6	1.6	1.6	1.6	1.6	2
OD ₂	63.5	63.5	63.5	63.5	63.5	63.5
ID ₂	60.3	60.3	60.3	60.5	60.3	60.3
t ₂	1.6	1.6	1.6	1.6	1.6	1.6
OD ₃	25	38	51	36.5	76.1	101.6
ID ₃	22.6	35.6	47.8	60.3	72.1	97.6
t ₃	1.2	1.2	1.6	1.6	2	2
E	86	86	86	86	86	86
Weight (kg)	8.7	9.2	9.0	8.5	9.0	9.5

Separate pressure drop/capacity diagrams are available on request.





a. LKSF-CL

Fig. 4. Dimensions

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