

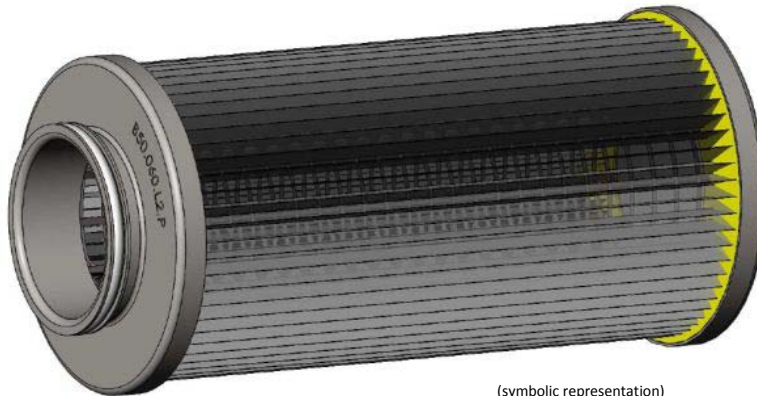
Elements for Series 4.121/221/225

Technical Data Sheet TYPE B



Classification/application

- Single filter Series 4.121 (DN 20...80)
- Double filter Series 4.225 (DN 20)
- Double filter Series 4.221 (DN 32...80)



(symbolic representation)

Areas of application

Filtration of hydraulic fluids, lubricants, industrial fluids, gases and water.

Construction

Star-like folded special filter material, microplasma welded lengthwise, with inner support tube. End caps glued. An O-ring is used for sealing.

Cleaning

Cleanable?

Whether a filter element can be cleaned depends on the filter material:

The standard version has wire mesh and may be cleaned repeatedly (see separate fact sheet)
Should other filter media have been used on customer request, then these generally cannot be cleaned (e.g. fibre mats and paper)

With proper cleaning (i.e. wire mesh and potting compounds remain intact), the number of cleaning cycles is limited only by accumulation of insoluble dirt in the mesh over time, blocking the pores. This results in increased pressure loss and shorter cleaning intervals.

The more fibrous, sticky and insoluble the dirt particles or the medium to be filtered, the faster the ageing effect.

Cleaning apparatus:

We shall upon request gladly provide you with information on suitable cleaning equipment.

ATTENTION:

The wire mesh consists of thin wires and therefore needs gentle cleaning!

To ensure proper filtration, the folds of the filter material must not be torn or damaged!

fluidtech® Filter elements

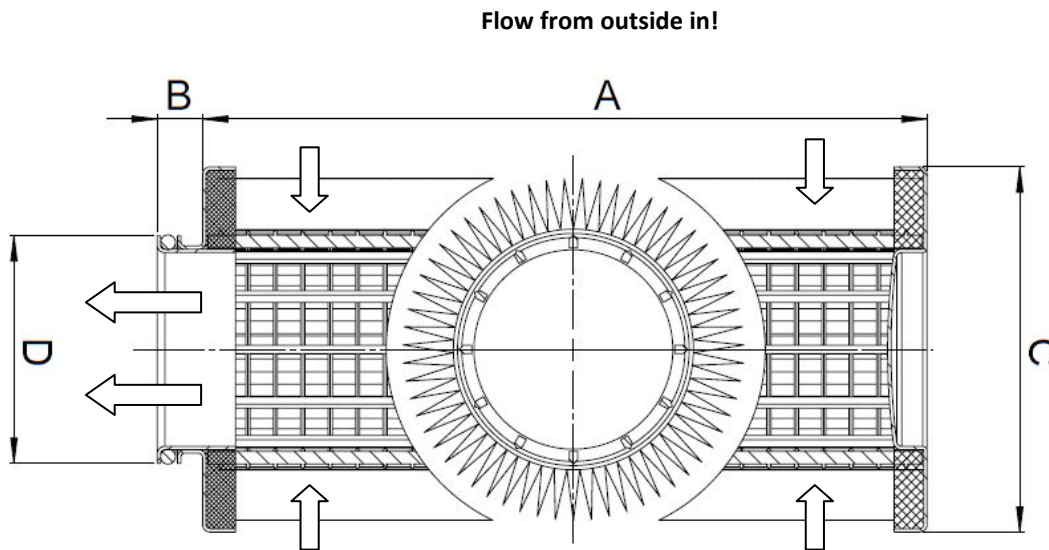
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Dimensions



Dimensions and technical data

Operating temperature: -10...120°C

DN	Key to length *Standard overall lengths	A [mm]	B [mm]	C [mm]	D [mm]	Filter area ca. [cm ²]	Collapsing pressure [bar]	Weight [kg]
20	L1*	71	4.5	55	28.3	418	14	0,14
	L2	106	4.5	55	28.3	684	14	0,19
32	L1	106	10.8	71	42	810	30	0,33
	L2*	171	10.8	71	42	1.395	30	0,49
50	L1	172	10.8	86.5	54	2.028	17	0,65
	L2*	252	10.8	86.5	54	3.068	17	0,88
80	L1	252	9.8	122.5	82	4.680	6.4	1,26
	L2*	336	9.8	122.5	82	6.360	6.4	1,84

Materials

End caps: 1.4301; others on request

Filter material: optimesh® wire mesh (10 - 100 µm) made of 1.4401
 precimesh® wire mesh (< 10 µm; > 100 µm) made of 1.4401
 Optional: glass fibre paper; filter paper; metal fibre mat (1.4404)

Seals: NBR, (alternatively FPM, special materials)

Potting compound: 2-component epoxy resin; other on request

Possible certifications

DIN ISO 2941	Hydraulic fluid power filter elements, collapsing/burst resistance tests.
DIN ISO 2942	Hydraulic fluid power filter elements, proof of manufacturing quality.
DIN ISO 2943	Hydraulic fluid power filter elements, proof of material compatibility with hydraulic fluids.
DIN ISO 3723	Hydraulic fluid power filter elements, method for end load test.
ISO 3968	Hydraulic fluid power – filters - evaluation of pressure drop versus flow characteristics.

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Product type keys (order example)

The product type key is shown on the sieve ring.

B32	060	L2	P	St
End cap material: (Standard 1.4301)				
St	Steel			
1.4571	Stainless steel			
other materials on request				
Sealing material				
P	NBR (Standard)			
V	FPM			
other materials on request				
Overall length key				
L1	Overall length for DN 20			
L2	Standard overall length for all sizes			
other overall lengths on request (welded filter cover)				
Filter fineness/medium				
005	optimesh® wire mesh 5 µm nominal, 10 µm absolute			
010	optimesh® wire mesh 10 µm nominal, 25 µm absolute			
015	optimesh® wire mesh 15 µm nominal, 34 µm absolute			
020	optimesh® wire mesh 20 µm nominal, 40 µm absolute			
025	optimesh® wire mesh 25 µm nominal, 60 µm absolute			
040	optimesh® wire mesh 40 µm nominal, 80 µm absolute			
060	optimesh® wire mesh 60 µm nominal, 100 µm absolute			
080	precimesh® wire mesh 80 µm nominal, 150 µm absolute			
100	precimesh® wire mesh 100 µm nominal, 200 µm absolute			
120	precimesh® wire mesh 120 µm nominal, 250 µm absolute			
150	precimesh® wire mesh 150 µm nominal, 300 µm absolute			
xxx	Paper, glass fibre paper			
other fineness on request				
Nominal connection size/overall size DN for Type B				
20 / 32 / 50 / 80				

fluidtech® Filterelemente

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